

Printed Documentation

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Evidence Base

Evidence Base

These are some of the evidence based databases that are worth searching for any given topic:

[AGREE Collaboration](#)

[Attract](#)

[Bandolier](#)

[Centre for Evidence Based Nursing](#)

[Centre for Reviews and Dissemination](#)

[Clinical Knowledge Summaries](#)

[Cochrane Collection](#)

[Combined Health Information Database](#)

[Evidence Based Nursing](#)

[Joanna Briggs Institute](#)

[National Guideline Clearinghouse](#)

[National Library for Health](#)

[Primary Care Question Answering Service](#)

[TRIP - Turning Research Into Practice](#)

[Canadian Agency for Drugs and Technologies in Health \(CADTH\)](#)

[GAC Recommended Clinical Practice Guidelines](#)

[FPIN - Family Practice Inquiries Network](#)

[Canadian Task Force on Preventive Health Care](#)

[Scottish Intercollegiate Guidelines Network \(SIGN\)](#)

[U.S. Preventive Services Task Force \(USPSTF\)](#)

[PedsCCM Evidence Based Journal Club](#)

[DARE Database - University of York Center for Reviews and Dissemination](#)

[NHS Health Technology Assessment Programme](#)

[Center For Clinical Effectiveness - Monash University](#)

[Canadian Cochrane Network and Centre](#)

[Royal College of Obstetricians and Gynaecologists](#)

[Toward Optimized Practice \(TOP\)](#)

[Cancer Care Ontario PEBC](#)

[Clinical Evidence](#)

[Eastern Association for the Surgery of Trauma](#)

[Intute: Health and Life Sciences](#)

[Cochrane Skin Group](#)

[Cincinnati Children's Hospital Medical Center](#)

[National Health and Medical Research Council - Australian Government](#)

Patient Oriented Evidence that Matters

Patient oriented evidence that matters (POEMs) can be found in several locations:

- [PJ Online](#)
- [SUMSearch](#)
- [PrimeAnswers](#)
- [Journal of Family Practice POEMs](#)

Optional Chapter Resources

The Cell

Unit I: The Cell

1. [Cellular Biology](#)
2. [Altered Cellular and Tissue Biology](#)
3. [The Cellular Environment: Fluids and Electrolytes, Acids and Bases](#)

1: Cellular Biology

[The Antibody Resource Page](#) A meta-site maintained by featuring links to commercial antibody suppliers and an online gallery of antibodies.

[Atlas of Microscopic Anatomy: A Functional Approach: Companion to Histology and Neuroanatomy](#) Second Edition, by Ronald A. Bergman, PhD, Adel K. Afifi, MD, and Paul M. Heidger, Jr, PhD. Creation date: 1999. Last revision date: 1999. From the Virtual Hospital, University of Iowa.

[Section 1: Cells.](#)

[The Biology Project: Cell Biology](#) Also available in [Spanish](#), this site includes Problem Sets & Tutorials by William J. Grimes and Denice K. Warren, University of Arizona, on:

[The Cell Cycle & Mitosis Tutorial](#); requires the [QuickTime](#) plug-in; [Studying Cells Tutorial](#); [Meiosis Tutorial](#); [Prokaryotes, Eukaryotes, & Viruses](#); [The Cytoskeleton](#).

[Cell and Molecular Biology Lessons](#) From Loyola University.

[Cell Biology Topics](#) A site developed by Dr. Gwen Childs; includes cell dynamics, membranes, and much more. Includes [Medical Cell Biology 2005](#) lectures handouts and animated slide sets.

[Cells: Origins](#); [Transport In and Out of Cells](#); and [Cellular Organization](#) In the [Online Biology Book](#) by M. J. Farabee, Maricopa Community College.

[CELLS alive!](#) Requires the [QuickTime](#) plug-in in order to view many animations and actual films.

[Cellular energetics: harvesting chemical energy](#) A PowerPoint Presentation by Dr. Ed Byard, University of Winnepeg.

[Clinical Case Computer Tutorials in Biochemistry](#) From the University of Manitoba.

[Educational Resources](#) From the [Biophysical Society](#). Includes resources on Molecular Structures, Biophysical Techniques, and Biophysical Mechanisms.

[MIT - Biology Hypertextbook](#) From the Experimental Study Group, Massachusetts Institute of Technology, Copyright © 1996, 1997, 1998. Includes a separate chapter on [Cell Biology](#) and on [Glycolysis and the Krebs Cycle](#).

[Net Biochem](#) Includes medical topics, animated and still graphics, and tables, by James Baggott, PhD, and Sharon E. Dennis, MS. "Portions of NetBiochem were created by the Knowledge Weavers with support from National Library of Medicine, Grant #1 G08 LM05684-01A1, "A Model Multimedia Support Center for the Health Sciences."

[Play the Control of the Cell Cycle Game](#) Interactive site from the Nobel Prize web site, presented with the support of Aventis.

[Signal Animation](#) From the University of Washington.

[STKE: Signal Transduction Knowledge Environment](#) A web meta-site from the [American Association for the Advancement of Science](#) and the Board of Trustees of the Leland Stanford Junior University. Access to some items requires subscription.

[The Vault Website](#) "Written by L. Rome in Macromedia Dreamweaver and designed by Jordan Rome and Marc Roseboro in the UCLA Advanced Research Computing Facility." Includes links to researchers and publications.

[Virtual Cell](#) "A collection of still images, texts and movies covering the structure and functioning of a typical plant cell."

[The Virtual Cell](#) Includes an audio pronunciation guide. This site is "a multidisciplinary collaboration between students in Science, Computer Graphics, and World Language Classes at Coyle and Cassidy High School in Taunton Massachusetts."

[Virtual Library of Biochemistry and Cell Biology](#) Directory to web resources from the WWW Virtual Library project; maintained by Gabriel Fenteany.

Databases

[CS ChemFinder](#) A searchable online database of chemicals from different sources on the World Wide Web.

Journals

[Cell](#) As of January 2005, articles 12 months old or older and dating back to content from 1995, will be available for free online.

[Clinical Chemistry](#) Published by the [American Association for Clinical Chemistry](#). Stanford University Libraries' HighWire Press ® assists in the publication of Clinical Chemistry Online.

Agencies and Organizations

[American Society for Biochemistry and Molecular Biology](#)

[Association of Biomolecular Resource Facilities](#)

[Federation of American Societies for Experimental Biology - FASEB](#)

[National Resource for Cell Analysis and Modeling](#)

[NIH Cell Biology Interest Group](#)

[National Institutes of Health Center for Molecular Modeling](#)

[Society for Developmental Biology](#)

2: Altered Cellular and Tissue Biology

[Animated degradation and transport of antigens that bind major histocompatibility complex \(MHC\) class II molecules](#) One of several animations available from the [Expert Reviews in Molecular Medicine](#) site, Cambridge University Press.

[Apoptosis](#) An illustrated overview from [Kimball's Biology Pages](#).

[Cell Injury](#) Online resources by Robin R. Jones, MD, PhD (University of Arkansas for Medical Sciences) from the [learningmodules.net](#) web site, a site incorporating the "National Library of Medicine's Basic Medical Pathology videodisc series ... by the Pathology Education Instructional Resource of the University of Alabama at Birmingham." Includes streaming videos and online tests. Topics covered include: Cell Injury, Necrosis, Cellular Alterations and Adaptations, Cellular Accumulations, Acute Inflammation I: Exudates and Phagocytosis, Acute Inflammation II: Chemical Mediators and Types of Exudates, Chronic Inflammation and Wound Healing, Hemodynamics and Fluid Disturbances: Edema, Congestion, and Shock, Thrombosis, Embolism, and Infarction, Neoplasia I: Nomenclature and Benign vs. Malignant States, and Neoplasia II: Metastasis and Differentiation.

[Cellular Injury Index](#) Histologic illustrations and explanatory text from the Internet Pathology Laboratory.

[Chemicals and Human Health](#) Problem sets and tutorials on toxicology and lung toxicology; University of Arizona.

[Environmental Tobacco Smoke](#) Position Statement from the American Nurses Association.

[Electromagnetic Fields](#) Information links from Medline Plus.

[EMFRAPID - Electric and Magnetic Fields Research and Public Information Dissemination Program](#) Home From the National Institute of Environmental Health Sciences.

[Heat Wave Index and Safety Information](#) Information for the National Oceanic & Atmospheric Administration - NOAA.

[How do intracellular proteolytic systems change with age?](#) By Ana Maria Cuervo and J. Fred Dice, Department of Physiology, Tufts University School of Medicine, Boston, Mass, USA. Received 12/5/97; accepted 12/9/97 - *Frontiers in Bioscience* 3, p 25-43, January 1, 1998; full-text online.

[Injury Fact Book 2001-2002](#) From the National Center for Injury Prevention and Control.

[Lead Poisoning](#) Factsheet from the National Safety Council.

[Life Tables](#) Vital Statistics of the United States, Volume II, Mortality, Part A, Section 6 contains life tables. This section is also issued annually as a separate publication. The life tables provide life expectancy data; specific tables require Adobe Acrobat Reader for viewing.

[Methyl Mercury Poisoning — A Public Health Menace](#) A Self-Study Module by Rosalyn Feller Scherf, RNC; from *Nursing Spectrum*.

[Mold](#) Information on health effects of mold in the environment from [National Center for Environmental Health](#), the Centers for Disease Control and Prevention.

[MSDS collection](#) From SIRI - Safety Information Resources Inc.

[Neoplasia Index](#) Histologic illustrations and explanatory text and diagrams from the Internet Pathology Laboratory.

[Nutritional and Metabolic Diseases](#) From the [Genes and Disease](#), an online textbook from the National Center for Biotechnology Information, National Library of Medicine.

[Pesticides in the Diets of Infants and Children](#) By the Committee on Pesticides in the Diets of Infants and Children, National Research Council 408 pages, 1993. Available full-text online from the National Academies Press.

[The Plain English Guide to the Clean Air Act](#) From the Environmental Protection Agency.

[Rebuilding the Unity of Health and the Environment: A New Vision of Environmental Health for the 21st Century](#) (2001) A full-text online book from National Academies Press, 96 pages.

[Specialized Information Services](#) Gateway to the TOXNET and Toxline databases and Chemical information resources from the National Library of Medicine.

[Case Teaching Notes](#) for "Stem Cells: Promises to Keep?" by Lauren E. Yaich, Department of Natural Sciences University of Pittsburgh at Bradford. Provides a good overview, with illustrations.

[ToxFAQs](#) Frequently asked questions about contaminants found at hazardous waste sites; from the [Agency for Toxic Substances and Disease Registry](#).

Journals

Agencies and Organizations

[Agency for Toxic Substances and Disease Registry - ATSDR](#) "For [hazardous chemical fact sheets](#) and information on pesticides."

[American College of Occupational and Environmental Medicine](#)

[American Federation for Aging Research](#)

[American Lung Association](#)

[American Society for Clinical Pathology](#)

[Association for Molecular Pathology](#)

[Environmental Mutagen Society](#)

[Environmental Protection Agency - EPA](#)

[International Cell Death Society](#)

[National Center for Environmental Health](#) from the Centers of Disease Control and Prevention. "Provides expertise in environmental pesticide surveillance and disease outbreak investigations."

[National Institute of Environmental Health Sciences - NIEHS](#)

[National Institutes of Health - NIH](#) Includes the [Mad as a Hatter -- NIH Mercury Abatement Program](#) and National Toxicology Program.
[National Toxicology Program](#) U.S.

- 3: The Cellular Environment: Fluids and Electrolytes, Acids and Bases
- [Acid-Base Tutorial](#) By Alan W. Grogono, MB, BS, MD, FRCA.
 - [Acid-Base Physiology](#) Extensive site by Kerry Brandis.
 - [Disorders of Water, Electrolytes and Acid-Base](#) Section I of the Schrier Atlas of Diseases of the Kidney online version; materials require Adobe Acrobat Reader to view.
 - [Electrolyte Balance](#) A student project from McGill University that includes a glossary and case studies.
 - [Fluid and Electrolyte - Clinical Pathway](#) by Jon Scheinman, MD; online interactive quiz from the University of Kansas Medical Center.
 - [Fluid & Electrolyte Balance Summary](#) A chart from [Renal Biochemistry](#) By Dr Charles McEvoy.
 - [Fluid Physiology](#) An extensive site by Kerry Brandis.
 - [Fluid Resuscitation: State of the Science for Treating Combat Casualties and Civilian Injuries](#) By the Committee on Fluid Resuscitation for Combat Casualties, Institute of Medicine; 208 pages, 1999. Full-text online from the National Academies Press.
 - [Fluids & Electrolytes](#) Slide set by Mary Bennett, DNSc, RN, Assistant Dean, Indiana State University School of Nursing.
 - [General, Organic and Biochemistry](#) A complete online book, copyright (C) 1997-2005 James K. Hardy and Brooks/Cole Publishing Company. Please respect copyright restrictions.
 - [Heat and Hydration](#) From SportsMed Web.
 - [Hyponatremia and Hypernatremia in the Elderly](#) An online article from American Family Physician, June 15, 2000.
 - [Interpretation of ABGs: Acid - Base Balance A Four Step Method](#) An online course by Mark Guinan, RN, CCRN.
 - [Maintaining the Internal Seas in Harmony: Common Electrolyte Disturbances in the ED](#) By Tom Trimble, RN.
 - [Metabolic Acidosis](#) By Karen L Stavile, MD, coauthored by Richard Sinert, DO; from [eMedicine World Medical Library](#).
 - [Nephrogenic Diabetes Insipidus](#) From the NDI Foundation.
 - [A Step-wise approach to Acid-Base disorders](#) Online article from Postgraduate Medicine.
 - [Water, Electrolytes, Renal and Acid-Base](#) From the [Virtual Anaesthesia Textbook](#).

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

Consider using the following MeSH (Medical Subject Heading) terms when doing searches on some of the topics in the above chapters:

Anatomy
Body Composition
Body Fluid Compartments
Physiology
Homeostasis
Electrolytes
Acid-Base Equilibrium
Acid-Base Imbalance

Histology
Physiological Processes
Body Fluids
Monitoring, Physiologic
Longevity
Homeostasis
Water-Electrolyte Balance
Water-Electrolyte Imbalance

Click here for a quick and very focused MEDLINE search on immunity and the [cell cycle](#). This sample search is performed on the National Library of Medicine's PubMed MEDLINE interface. It is limited to articles in English.

Genes and Genetic Diseases

4. [Genes and Genetic Diseases](#)
5. [Genes, Environment-Lifestyle, and Common Diseases](#)

4: Genes and Genetic Diseases

[Bloodlines: Technology Hits Home](#) Companion web site to the PBS program. Includes extensive links to other web resources and an interactive map on state and federal laws related to genetic and reproductive technologies; from the Corporation for Public Broadcasting.

[Cracking the Code of Life](#) Companion web site to a PBS broadcast aired on April 17, 2001. Includes interactive animated learning activities.

[DNA From the Beginning](#) "An animated primer on the basics of DNA, genes, and Heredity" from Cold Spring Harbor Laboratory.

[DNA Interactive](#) Extensive site with animations from Cold Spring Harbor Laboratory.

[DNA Structure, Replication, Transcription, and Protein Synthesis](#)

Educational site "constructed by Yvette Petty, Visiting Assistant Professor, New Century College at George Mason University, with animation by Steve Roberson."

[Exploring Genes & Genetic Disorders](#) "A Companion Guide to the Human Genome Landmarks Poster"; includes information on specific disorders, bioinformatics tools for studying genetics and genetic diseases, and "Gene and Genetic Disease Profiles"; from the Oak Ridge National Laboratory. Provides an extensive directory to other web resources.

[A Gene Map of the Human Genome](#) From the National Library of Medicine, 1996.

[GeneTests/GeneClinics](#) "a clinical information resource relating genetic testing to the diagnosis, management, and genetic counseling of individuals and families with specific inherited disorders. Funded by the National Library of Medicine, National Human Genome Research Institute, National Cancer Institute, and Office of Rare Diseases of the NIH. Administrative support from University of Washington, Seattle." Includes information on specific disorders.

[Gene Therapy: Molecular Bandage?](#) interactive learning site from the Genetic Science Learning Center at the Eccles Institute of Human Genetics, University of Utah.

[Generational Health](#) This "site is an important tool that can help you trace your family's medical history and become better informed about health conditions that may affect your own health and that of your loved ones" by guiding you through the development of a family health tree. Sponsored by Pfizer.

Genes and Disease: A "collection of articles that discuss genes and the diseases that they cause"; an extensive and searchable site from the [Bookshelf](#) of the National Center for Biotechnology Information, U.S. National Library of Medicine. Other online books available include [Genomes](#) 2nd ed., and [Human Molecular Genetics 2](#) 2nd ed.

[Genetic and Rare Conditions Site](#) From the University of Kansas Medical Center; provides links to support groups and information on genetically inherited disorders.

[The Genetic Code and Crack the Code Game](#) Interactive site from the Nobel Prize web site.

[Genetic Science Learning Center](#) at the Eccles Institute of Human Genetics, University of Utah.

[Genetics](#) A hypertextbook from Colorado State University. Contains sections on cytogenetics, chromosomal disorders, and DNA testing.

[Genetics - The Virtual Library](#) A metasite collection of links on genetic topics.

[Genetics Education Center](#) From the University of Kansas Medical Center. Includes many interactive illustrated activities.

[GenLink: A human genetics resource](#) From Washington University St. Louis; includes links to resources, including Human Meiotic Maps.

[Genome Database](#) Hosted by RTI International.

[Genomics and Its Impact on Medicine and Society: A 2003 Primer](#) Was originally prepared by Denise Casey (Human Genome Management Information System - Oak Ridge National Laboratory) 1991-92 and modified for Web access by Dan Jacobson. One of many resources available from the [Department of Energy \(DOE\) Human Genome Program](#).

[Glossary of Genetic Terms](#) From the [National Human Genome Research Institute](#). This is a "talking" glossary to assist users in learning proper pronunciations.

[Human Embryology](#) Version 5.7 © M.A. Hill, 2005. This site by Dr. Mark Hill contains many online movies and images; requires the Quicktime plug-in; detailed and extensive illustrated site, both from the University of New South Wales, Australia.

[Human Genome Project Education Resources](#) From the National Human Genome Research Institute.

[Hypertextbook Mendelian Genetics](#) and [Central Dogma](#) in the [MIT Hypertextbook of Biology](#).

[Medical Genetics](#) Companion site to the Mosby textbook *Medical Genetics*, 2nd edition by Lynn B. Jorde, PhD; John C. Carey, MD; Michael J. Bamshad, MD; and Raymond L. White, PhD. Includes online test questions and a collections of [Photographs](#) of specific disorders.

[Molecular Biology - Problem Sets and Tutorials](#) From the University of Arizona; includes Nucleic Acids, Recombinant DNA, and Eukaryotic Gene Expression.

[OMIM™, Online Mendelian Inheritance in Man](#) A searchable database on genetic diseases; includes clinical synopsis, extended historical information on syndromes, and links to current literature searches.

[Practice-Based Genetics Curriculum for Nurse Educators](#) A sample chapter from the modules available is online; from the [Foundation for Blood Research](#).

[Promoting Safe and Effective Genetic Testing in the U.S.](#) Final Report of the Task Force on Genetic Testing; edited by Neil A. Holtzman, MD, MPH, and Michael S. Watson, PhD, September 1997, National Institutes of Health.

[Putting DNA to work](#) Videos and information programs that include sections on inherited and infectious diseases; from the Marian Koshland Science Museum of the National Academy of Sciences.

[Sex Determination: Evolution of the Y Chromosome](#) From the Howard Hughes Medical Institute. There is also an interactive resource center on [Genomics and Chemical Genetics](#).

[Understanding Gene Testing](#) From the National Institutes of Health.

[Understanding Genetics](#) Scroll down to locate the interactive online program and calculator *What Color Eyes Will Your Children Have?* from this extensive site by the Tech Museum of Innovation, San Jose.

[Webcasts --Online Audio and Video Files about Genetics and the Human Genome Project](#) Includes April 2003 Scientific Symposium: From Double Helix to Human Sequence - and Beyond; and The DNA Files.

[Your Genes Your Health](#) "A multimedia guide to genetic disorders". Copyright Dolan DNA Learning Center, Cold Spring Harbor Laboratory.

Journals

[American Journal of Human Genetics - Electronic Edition](#) Tables of contents and abstracts are available online; full-text articles are available by subscription.

[Archives of Disease in Childhood: Fetal and Neonatal Edition](#) Tables of Contents, abstracts, and selected items are available full-text online; access to articles online is available by subscription.

[Early Human Development](#) Full-text articles are available from 1997 to the present. Access to the site is complimentary for a limited time.

Agencies and Organizations

[American Academy of Pediatrics, Committee on Genetics](#) Includes links to current policy statements and informational sites.

[American Board of Genetic Counseling](#)

[American College of Medical Genetics](#) Includes [Policy Statements](#).

[American Society for Histocompatibility and Immunogenetics](#)

[American Society of Human Genetics](#)

[Canadian College of Medical Geneticists](#)

[Council for Responsible Genetics](#)

[Genetic Alliance](#) "A dynamic coalition of consumers and professionals to promote the interests of children, adults and families living with genetic conditions."

[Genetic/Rare Conditions Support Groups & Information](#) From the University of Kansas Medical Center.

[Genetics and Public Policy Center](#) Includes research on public attitudes.

[Genetics Society of America](#)

[Howard Hughes Medical Institute](#)

[International Society of Nurses in Genetics - ISONG](#)

[Mountain States Genetics Network - MoSt GeNe](#)

[National Center for Birth Defects and Developmental Disabilities](#) An extensive site from the Centers for Disease Control.

[National Center for Genome Resources](#) a "non-profit, bioinformatics research center".

[National Center for Toxicogenomics](#) of the [National Institute of Environmental Health Sciences](#).

[National Coalition for Health Professional Education in Genetics](#)

[National Human Genome Research Institute](#)

[National Society of Genetic Counselors, Inc.](#)

[National Taskforce for Newborn Screening and Genetic Resource Center](#)

[Office of Biotechnology Activities, National Institutes of Health](#)

[Office of Genomics and Disease Prevention](#) of the Centers for Disease Control and Prevention - CDC; available in English and [Spanish](#). This site is part of [HuGENet™](#), "a global collaboration of individuals and organizations who develop and communicate epidemiologic information on the human genome", which includes a journal club, case studies, and literature database.

[Secretary's Advisory Committee on Genetics, Health, and Society](#) NIH

5: Genes, Environment-Lifestyle, and Common Diseases

[Cancer and the Environment: Gene-Environment Interactions](#) Full text online from the National Academies Press, 166 pages, 2002.

[Cancer Genome Anatomy Project](#) From the National Library of Medicine; under "[A Conceptual Tour](#)" you will find a 'slide show' on the cellular basis of cancer.

[Carcinogenic Potency Project](#) Includes database. From the University of California, Berkeley.

[Chemicals and Human Health](#) Problem sets and tutorials on toxicology and lung toxicology; University of Arizona.

[Chromosomal Abnormalities: An Introduction to Common Gross Defects of Human Chromosomes](#) By Dennis O'Neil, PhD, Palomar College, San Marcos, California; an online tutorial.

[Cytogenetics Gallery](#) Microscopic illustrations of chromosomes and chromosome abnormalities; from the University of Washington.

[Dioxins and Furans](#) from the [Persistent Bioaccumulative and Toxic \(PBT\) Chemical Program](#) of the Environmental Protection Agency.

[Drinking Water and Disease: What Every Health Provider Should Know](#)

Online instructional program "presented by the American College of Preventive Medicine and Physicians for Social Responsibility".

[Embryonic Development](#) Slide illustrations from the "[Babies and Birth Defects: A Mystery in Texas](#)" educational module "designed to teach

middle school and high school students about epidemiology, neural tube birth defects, and folic acid" from the CDC's National Center on Birth Defects and Developmental Disabilities (NCBDDD); includes illustration of neural tube defect development.

[Evaluating Chemical and Other Agent Exposures for Reproductive and Developmental Toxicity](#)

Subcommittee on Reproductive and Developmental Toxicity, Committee on Toxicology, Board on Environmental Studies and Toxicology, National Research Council; 262 pages, 2001. Available full-text online from the National Academies Press.

[Fetal Alcohol Syndrome and Alcohol-Related Neurodevelopmental Disorders](#)

From the American Academy of Pediatrics, Policy Statement, Committee on Substance Abuse and Committee on Children With Disabilities, August, 2000.

[Health and Behavior: The Interplay of Biological, Behavioral, and Societal Influences](#)

Committee on Health and Behavior: Research, Practice and Policy, Board on Neuroscience and Behavioral Health; 400 pages, 2001. Available full-text online from the National Academies Press.

[Healthy People 2010 & Environmental Health](#) "A resource page compiled by the Public Health Foundation - PHF, with assistance from the Agency for Toxic Substances and Disease Registry - ATSDR, the National Center for Environmental Health - NCEH, the National Institute of Environmental Health Sciences - NIEHS, and the Office of Disease Prevention and Health Promotion - ODPHP."

[Human Gene Mutation Database at the Institute of Medical Genetics in Cardiff](#)

[From Neurons to Neighborhoods: The Science of Early Childhood Development](#)

Jack P. Shonkoff and Deborah A. Phillips, Editors; Committee on Integrating the Science of Early Childhood Development, Board on Children, Youth, and Families; 612 pages, 2000. Available full-text online from the National Academies Press.

[Nutritional and Metabolic Diseases](#)

From the [Genes and Disease](#), an online textbook from the National Center for Biotechnology Information, National Library of Medicine.

[OMIM™ Online Mendelian Inheritance in Man](#) An extensive database of genetically related disorders, including links to gene maps, and MEDLINE references.

[The Practical Guide: Identification, Evaluation, and Treatment of Overweight and Obesity in Adults](#) Order information and access to online versions of this 1998 report from the National Heart, Lung, and Blood Institute - NHLBI. Other related resources from the NHLBI include [Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults](#) 2003, and [OEI Treatment Guidelines Implementation Tool for Palm OS and PocketPC 2003 Devices](#).

[Preventing and Controlling Cancer: The Nation's Second Leading Cause of Death](#) Information from the National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention.

[ToxFAQs](#) Frequently asked questions about contaminants found at hazardous waste sites; from the [Agency for Toxic Substances and Disease Registry](#).

[The Tumor Gene Database](#) From Baylor College of Medicine.

Agencies and Organizations

[American Society for Histocompatibility and Immunogenetics](#)

[Cellular, Tissue and Gene Therapies Advisory Committee \(Formerly Biological Response Modifiers Advisory Committee\)](#) of the Food and Drug Administration.

[The National Human Genome Research Institute](#) The mission of this National Institute is "to develop and apply tools in statistics, genetics, and computer science to locate genes that contribute to multifactorial genetic disease."

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

Consider using the following MeSH (**M**edical **S**ubject **H**eading) terms when doing searches on some of the topics in the above chapters:

Aged	Genetics
Genes	Extrachromosomal Inheritance

Genetics, Behavioral	Genetics, Biochemical
Genetics, Medical	Genetic Counseling
Genotype	Genome
Cytogenetics	Genetic Techniques
Cloning, Organism	Gene Therapy

You can also use the subheading **genetics (ge)** and combine it with specific subjects. Example: Using the PubMed MEDLINE interface from the National Library of Medicine type: breast neoplasms/ge. This retrieves articles about breast cancer and genetics.

Click here for a quick and very focused MEDLINE search on [breast cancer and genetics](#). This sample search is performed on the National Library of Medicine's PubMed MEDLINE interface. It is limited to articles in English about humans.

Cellular Proliferation: Cancer

Cellular Proliferation: Cancer

11. [Biology of Cancer](#)
12. [Tumor Invasion and Metastasis](#)
13. [Cancer in Children](#)

11: Biology of Cancer

[American Cancer Society: Statistics](#) Reports for previous years are also available.

[Biological Therapies for Cancer](#) From the National Cancer Institute.

[Canadian Cancer Statistics](#) From [Health Canada](#).

[Cancer and the Environment: Gene-Environment Interactions](#) Full-text online from the National Academies Press; 166 pages, 2002.

[Cancer Genome Anatomy Project](#) From the National Library of Medicine; under "[A Conceptual Tour](#)" you will find a 'slide show' on the cellular basis of cancer.

[Cancer Health Disparities: Fact Sheet](#) From the National Cancer Institute.

[Cancer Prevention and Early Detection: Facts and Figures 2004](#) Online publication from the [American Cancer Society](#)

[CancerQuest](#) A site from Emory University designed to teach the biology of cancer.

[Cancer Research, UK](#) Includes statistics for the UK.

[CancerSymptoms.org](#) A web site developed by [The Oncology Nursing Society](#) designed to provide resources to patients about cancer fatigue and other symptoms of cancer and cancer treatment, and information on how to cope with them.

[Cancers](#) A directory to topical collections of web resources on these topics; from Medline Plus. Includes online tutorials and links to relevant organizations.

[Carcinogenic Potency Project](#) Includes database. From the University of California, Berkeley; includes information related to pesticides in food.

[Dioxins and Furans](#) from the [Persistent Bioaccumulative and Toxic \(PBT\) Chemical Program](#) of the Environmental Protection Agency.

[Electromagnetic Fields](#) Information links from Medline Plus.

[EMFRAPID - Electric and Magnetic Fields Research and Public Information Dissemination Program](#) Home From the National Institute of Environmental Health Sciences.

[Environmental Tobacco Smoke](#) Position Statement from the American Nurses Association.

[Exposure Assessment Models](#) From the [Environmental Protection Agency](#).

[Exposure Risk for Health Care Professionals in the Handling and Administration of Chemotherapy Agents](#) By Mary Ann Ritchie, RN, PhD; and Cathy McAdams, MSN, CPNP and Nancy Fritz, RN, BSN; an Online Continuing Education Program: Case Study from the Sigma Theta Tau International, Honor Society of Nursing.

[Food, Nutrition and the Prevention of Cancer](#) Information from the University of Idaho, Department of Food Science and Toxicology, with excerpts from the American Institute for Cancer Research and the World Cancer Research Fund 1997 publication, *Food, Nutrition and the Prevention of Cancer: a Global Perspective*.

[Labeling for Combined Oral Contraceptives](#) From the U.S. Food and Drug Administration.

[Hypothalamic Hormones and Cancer](#) Online article from *Frontiers in Neuroendocrinology* 2001.

[Increased Risk of Ovarian Cancer is Linked to Estrogen Replacement Therapy](#) A summary of the research article from *JAMA*, July 17, 2002, in News from the NCI, from the National Cancer Institute.

[Neoplasia Index](#) Histologic illustrations and explanatory text and diagrams from the Internet Pathology Laboratory.

[Neoplasia: Tumor-Host Interrelations: Clinical Relevance](#) By Robert C. Mellors, MD, PhD. Includes illustrations.

[NCI-designated Cancer Centers \(P30\) Cancer Centers](#) Listed by State.

[Preventing and Controlling Cancer: The Nation's Second Leading Cause of Death](#) Information from the National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention.

[Report on Carcinogens](#) From the U.S. Department of Health and Human Services, Public Health Service, National Toxicology Program.

[SEER](#) Surveillance, Epidemiology and End Results, a program from the National Cancer Institute. Includes a separate, extensive [training site](#) that includes anatomical reviews of different organ systems, case studies, and a self-study unit on basic anatomy, complete with online quizzes.

[Telomerase as a cancer marker](#) Consumer level information from the American Federation for Aging Research.

[Tobacco Information and Prevention Source \(TIPS\)](#) from the Office on Smoking and Health, Centers for Disease Control and Prevention. Includes [statistical reports](#), guidelines, related reports, and much more.

[ToxFAQs™](#) From the Agency for Toxic Substances and Disease Registry; "Answers are provided to the most frequently asked questions (FAQs)

about exposure to hazardous substances found around hazardous waste sites and the effects of exposure on human health."

[A Tumor Atlas](#) An extensive site from Frontiers in Bioscience. Includes information on diagnostic tests by type of neoplasia, interactive staging forms, images and more.

[The Tumor Gene Database](#) From Baylor College of Medicine.

[What You Need to Know](#) A series from the National Cancer Institute that covers many different types of cancers, designed for patients and families.

Databases

The [National Cancer Institute](#) has many full text documents, and online [Cancer Literature](#) resources. This site includes a dictionary, information on treatment options for specific types of cancer, resources and literature, and the [bibliographic database](#). Some materials are available in English and Spanish.

[OncoLink](#) From the University of Pennsylvania Cancer Center.

[Tumor Gene Database/Breast Cancer Gene Database](#) From Baylor College of Medicine.

[CancerWEB: CancerNET, UK](#) Includes PDQ summary statements.

[TOXNET](#) Bibliographic databases related to toxic effects of environmental or drug poisoning and toxic effects.

Journals

[CA - A Cancer Journal for Clinicians](#) Issues are available online from 1999 to the present.

[Cancer Cell](#) As of January 2005, articles 12 months old or older and dating back to content from 1995, will be available for free online.

[Cancer News on the Net](#) News items on therapies and research.

[Cancer Nursing](#) Abstracts are available online; full-text is available by purchase.

[Clinical Journal of Oncology Nursing](#) A publication of the [Oncology Nursing Society](#). Tables of contents and abstracts are available online; full-text access is available by subscription or membership.

[*JNCI Cancer Spectrum*](#) Publication from the National Cancer Institute. Abstracts are available online; full-text access is available by subscription.

[M. D. Anderson *Oncolog*](#)

[*Oncology Nursing Forum*](#) A publication of the Oncology Nursing Society. Tables of contents and abstracts are available online; full access to articles is available to society members and subscribers. [Online Exclusive](#) articles are available full-text online.

[*Seminars in Oncology Nursing*](#) Full-text articles are available from 1998 to the present. Access to abstracts is complimentary. Access to full text is limited to print subscribers.

Agencies and Organizations

[Agency for Toxic Substances and Disease Registry - ATSDR](#) "For hazardous chemical fact sheets and information on pesticides."

[American Association for Cancer Research](#)

[American Cancer Society](#) Includes a section on [Food and Fitness](#) for prevention, and a section on [Nutrition for Cancer Patients](#).

[American Institute for Cancer Research](#)

[American Nurses Association](#) and the [RNNoHarm](#) web site which deals with adverse occupational exposures and environmental pollution issues.

[American Society for Therapeutic Radiology and Oncology](#)

[American Society of Clinical Oncology](#)

[Association of Cancer Online Resources](#)

[Cancer Information and Support International](#)

[Cancer Research and Biostatistics - CRAB](#) A "non-profit organization whose purpose is to help conquer cancer through the application of biostatistical principles and methods".

[Cancer Treatment Centers of America](#)

[Fred Hutchinson Cancer Research Center](#)

[International Union Against Cancer - GLOBALink](#)

[M.D. Anderson Cancer Center](#) University of Texas.

[Memorial Sloan-Kettering Cancer Center](#)

[National Coalition for Cancer Survivorship](#)

[National Cancer Institute-NCI](#)

[North American Association of Central Cancer Registries](#)

[Oncology Nursing Society](#) Extraordinary resource with online education resources, articles, and links to specialty pages related to cancer and cancer treatment.

12: Tumor Invasion and Metastasis

[Administration of High Dose Chemotherapy Protocol](#) A module on nursing care from the Bone Marrow Transplantation Program, Duke University Medical Center.

[American College of Physicians Home Care Guide for Advanced Cancer](#) "For family, friends, and hospice workers caring for persons with advanced cancer at home, when quality of life is the primary goal", full text online.

[Biological Therapies for Cancer](#) From the National Cancer Institute.

[Cancer Symptoms.org](#) A web site developed by [The Oncology Nursing Society](#) for cancer patients and their caregivers.

[Chemotherapy: Treating Cancer](#) Peer Review Status: Internally Reviewed by Cancer Center Staff, University of Iowa Cancer Center, Virtual Hospital. Creation Date: 1993, Last Revision Date: 1996. This is an extensive site, with many sections.

[Exposure Risk for Health Care Professionals in the Handling and Administration of Chemotherapy Agents](#) By Mary Ann Ritchie, RN, PhD; and Cathy McAdams, MSN, CPNP and Nancy Fritz, RN, BSN; an Online Continuing Education Program: Case Study from the Sigma Theta Tau International, Honor Society of Nursing.

13: Cancer in Children

[American Cancer Society: Statistics](#) Reports for previous years are also available.

[Caring for Young Persons with Cancer at Home](#) Peter S. Houts, PhD, Editor; the Web version of this homecare guide was made possible through a grant from The Four Diamonds Fund at the Penn State University.

[Childhood Cancers](#) From Cancer GeneticsWeb.

[Childhood Cancers Home Page](#) From the National Cancer Institute.

[Children's Cancer Web](#) "A Guide to Internet Resources for Childhood Cancer".

[Children's Unique Vulnerability to Environmental Toxins](#) A summary report from the [Center for Children's Health and the Environment](#).

[FACES Pain Rating Scale](#) By Donna Wong, a nurse consultant, and Connie Morain Baker, at the [Wong On Web](#) site.

[Growth House](#) An award winning site on grief, end-of-life issues, and terminal illness in all age groups.

[Guidelines on Forgoing Life-Sustaining Medical Treatment](#) From the American Academy of Pediatrics.

[Integrated Pest Management \(IPM\) in Schools: Protecting Children in Schools from Pests and Pesticides](#) From the Environmental Protection Agency.

[PedsCCM: Pediatric Critical Care Medicine](#)

[Pediatric Hematology/Oncology Patient Education Resources](#) From Penn State Milton S. Hershey Medical Center ©2000.

[Pesticides in the Diets of Infants and Children](#) By the Committee on Pesticides in the Diets of Infants and Children, National Research Council; 408 pages, 1993. Available full text online from the National Academy Press.

[Cancer Incidence and Survival among Children and Adolescents: United States SEER Program 1975-1995](#) From [SEER](#), Surveillance, Epidemiology and End Results, a program from the National Cancer Institute.

[Wong On Web](#) An extensive resource featuring Donna Wong, PhD, RN, PNP, CPN, FAAN; includes procedures, special sections on pediatric pain, and more.

Journals

[*Journal of Pediatric Health Care*](#) Full-text articles are available to NAPNAP members and personal subscribers starting from 2000 to the present; Abstracts, References, and PDFs are available from 1996 to the present. Access to tables of contents and abstracts is complimentary.

[*Pediatric Pharmacotherapy*](#) "A Monthly Review for Health Care Professionals" from the Children's Medical Center, University of Virginia.

Agencies and Organizations

[American Cancer Society](#)

[American Pediatric Surgical Nurses Association](#)

[American Society of Pediatric Hematology/Oncology](#)

[Association of Pediatric Oncology Nurses](#)

[Brave Kids](#) Online site for children with chronic or life threatening illnesses.

[The Candlelighters Childhood Cancer Foundation®](#)

[Candlelighters Childhood Cancer Foundation of Canada](#)

[Children's Brain Tumor Foundation](#)

[Children's Hospice International](#)

[Children's Oncology Group](#)

[Corporate Angel Network](#) Nonprofit organization that coordinates free air transportation for ambulatory cancer patients traveling to and from treatment, checkups, and consultations.

[German Childhood Cancer Registry](#)

[Hospice and Palliative Nurses Association](#)

[Leukemia Lymphoma Society](#) Offers information and support to patients with leukemia, Hodgkin's disease, and lymphoma. Includes a special section on [Pediatric Cancer](#).

[Make-A-Wish Foundation of America](#) Grants wishes to children with life-threatening illnesses.

[National Children's Leukemia Foundation](#)

[Pediatric Oncology Branch, National Cancer Institute](#)

[Ronald McDonald House Charities](#) Provides housing near treatment centers for children with life-threatening diseases and their families.

[Sunshine Kids Foundation](#) A non-profit foundation for children with cancer.

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

Consider using the following MeSH (**M**edical **S**ubject **H**eadings) when doing searches on topics in this unit:

MEDLINE uses the term 'neoplasms' instead of cancer, and that term in combination with histologic type or body site for specific cancers - examples are:

Brain Neoplasms	Glioblastoma
Bone Neoplasms	Carcinoma, Squamous Cell
Adenocarcinoma	Osteosarcoma
Lung Neoplasms	Carcinoma, Bronchogenic

consider also:

Antineoplastic Agents Radiotherapy and specific types of radiotherapy, such as:
Brachytherapy

There is a subheading for radiotherapy - rt; this can be used in combination with other headings for very specific searches.

Example: breast neoplasms/rt. However, actual headings allow more precision in some cases, such as the heading radiotherapy, adjuvant.

Special MEDLINE Tip: You can use the subheading 'secondary' - **sc**- to search for articles on metastasis. **Breast Neoplasms/sc** will retrieve articles on **metastatic breast cancer**.

Click here for a quick and very focused MEDLINE search on [metastatic breast cancer](#). This sample search is performed on the National Library of Medicine's PubMed MEDLINE interface. It is limited to articles in English.

Neurologic System

The Neurologic System

14. [Structure and Function of the Neurologic System](#)
15. [Pain, Temperature Regulation, Sleep, and Sensory Function](#)
16. [Concepts of Neurologic Dysfunction](#)
17. [Disorders of Neurologic Function](#)
18. [Neurobiology of Schizophrenia, Mood Disorders, and Anxiety Disorders](#)
19. [Alterations of Neurologic Function in Children](#)

14: Structure and Function of the Neurologic System

[Brain Functions and Map](#) By Robert P. Lehr Jr., Ph.D. Professor Emeritus, Department of Anatomy, School of Medicine, Southern Illinois University. Scroll down to the brain image and click on different sections of the brain to review brain functions; from the [Centre for Neuro Skills](#), a multi-site brain injury rehabilitation company. Check out the Multi-Media Center for sample videos on brain injury.

[Brain Matters](#) A consumer education site from the American Academy of Neurology Education and Research Foundation.

[Dana BrainWeb](#) An extensive site from the [Dana family of organizations](#) that includes information on Memory, Alzheimer's Disease, Head Injuries, Stroke, Parkinson's Disease and more.

[Nervous System](#) Histologic images on JayDoc HistoWeb, Copyright University of Kansas Medical Center.

[Neuroanatomy Tutorial - Labelled Images](#) An online illustrated tutorial from the Internet Pathology Laboratory.

[Neuroland](#) A meta-site from Charles Tuen, MD. Neurology information for physicians and health professionals. Includes links to best neuro sites, online free access to books journals, practice hints, images, nursing links, neuropathology images. Academic excellence award winning web site.

[Neuron: Computer Simulations](#) From Duke University, by Michael L. Hines and John L. Moore. Includes intracellular buffering, diffusion, and reactions membrane channels, pumps, exchangers temporal and spatial synaptic integration impulse propagation synaptic transmission networks of cells.

[NeuroAnatomy Pathology on the Internet](#) Copyright by Katalin Hegedüs. A comprehensive list of links to online lectures, textbooks, and tutorials related to neuroanatomy, neuropathology, neurology. Contains excellent links to sites explaining neurological [signs and symptoms](#) from A (Adie's tonic pupil) to W (Weakness).

[The Neuroanatomy Lab](#) Includes Atlases and Brain Sections.

[Neurosciences on the Internet](#) Edited and maintained by Neil A. Busis, MD. Copyright © by Neil A. Busis, MD. All rights reserved. A massive collection of links to other sites.

[Online Neuropathology Atlas](#) An extensive illustrated site by Prof. Katalin Hegedüs, Hungary.

[Sex Differences in the Brain](#) "Men and women display patterns of behavioral and cognitive differences that reflect varying hormonal influences on brain development". An online article by Doreen Kimura, from the special edition of *Scientific American* "[The Hidden Mind](#)", May 13, 2002.

[Spinal Cord 101](#) An online overview of the spinal cord and spinal cord injury from the [Spinal Cord Injury Resource Center](#).

[Types of Neurons](#) From [Explore the Brain and Spinal Cord](#), University of Washington, Seattle. Illustrated site with a sense of humor - includes [Chocolate and the Nervous System](#).

[Whole Brain Atlas](#) By Keith A. Johnson, MD, and J. Alex Becker; an exceptional site with extensive illustrations and even movies. Images are also grouped by specific disorders such as Stroke, Brain Tumors, Degenerative Diseases, and Infectious or Inflammatory Diseases. Also includes excellent MRI views of the normal and diseased human brain and Harvard Medical School lecture notes on brain diseases.

Journals

[Brain Pathology](#) Official journal of the International Society of Neuropathology. Selected items are available in PDF format full-text online.

[Brainwaves](#) Newsletter from Johns Hopkins University.

[Journal of Clinical Neuroscience](#) The official journal of [Neurosurgical Society of Australasia](#), the [Australian Association of Neurologists](#), the [Australian and New Zealand Society for Neuropathology](#), the Taiwan Neurosurgical Society, and the Asian/ Australian Society of Neurological Surgeons.

[The Journal of Neuroscience Online](#) Tables of contents, abstracts, and selected items are available online; full access requires subscription; from the Society for Neuroscience.

Agencies and Organizations

[American Academy of Neurology](#) Includes fact sheets on many disorders.

[American Association of Neurological Surgeons](#)

[American Association of Neuropathologists](#)

[American Association of Neuroscience Nurses](#)

[American Neurological Association](#)

[Association of University Professors of Neurology](#)

[Australian and New Zealand Society for Neuropathology](#)

[European Federation of Neurological Societies](#)

[International Society of Neuropathology](#)

[National Institute of Neurological Disorders and Stroke](#)

[Office of Rare Diseases](#) of the National Institutes of Health; includes a [Rare Diseases Terms](#).

[Society for Neuroscience](#)

[World Federation of Neurosurgical Societies](#)

15: Pain, Temperature Regulation, Sleep, and Sensory Function

Pain

[ABC of complementary medicine: Acupuncture](#) By Andrew Vickers, Catherine Zollman. *BMJ* 1999;319:973-976 (9 October).

[Assessing Pain In Older Adults](#) By Ellen Flahaerty, RN, MSN, GNP, PhD (cand.). An online article from [Try This](#), a newsletter from the [John A. Hartford Foundation, Institute for Geriatric Nursing](#).

[Assessment and Management of Acute Pain in Infants, Children, and Adolescents](#) Policy Statement from the American Academy of Pediatrics, 2001.

[Bay Area Pain Medical Associates](#), Mill Valley, California. Click on the [Animations](#) button to see the presentations.

[Cancer Pain](#) From the American College of Physicians [Home Care Guide for Advanced Cancer](#).

[Cancer Symptoms](#) A special Web site sponsored and maintained by the [Oncology Nursing Society](#).

[Challenges in Pain Management at the End of Life](#) Online article by Karl E. Miller, MD, Martha M. Miller, RN. CRNH, and Monica R. Jolley, PharmD, *American Family Physician*, October 1, 2001.

March 22, 1999.

[Effects of Patient-Controlled Music Therapy During Coronary Angiography on Procedural Pain and Anxiety Distress Syndrome](#) An online article by Kathy Bally, Debbie Campbell, Kathy Chesnick, and Joan E. Tranmer; from *Critical Care Nurse*, April 2003, vol. 23, no.2.

[Efficacy of Cold for Pain: Fact or Fallacy?](#) An Online Continuing Education Program article by Jenny Sauls, RNC, DSN, from Sigma Theta Tau International.

[FACES Pain Rating Scale](#) By Donna Wong, a nurse consultant, and Connie Morain Baker, at the [Wong On Web](#) site.

[Federal and State Regulation of Opioids](#) From the University of Wisconsin.

[Headache](#) and [Migraine](#) Information from [Medline Plus](#).

[How to Help Patients Manage Pain](#) By Charlotte Huff, February 6, 1998, [NurseWeek](#).

[IASP Pain Terminology](#) From the [International Association for the Study of Pain](#). Excerpted from Classification of Chronic Pain, second edition, IASP Task Force on Taxonomy. Edited by H. Merskey and N. Bogduk, IASP Press, Seattle, Copyright © 1994, pp. 209-214.

[Identifying Pain in the Hospice Patient](#) Online continuing education materials by Camille A. Servodidio, RN, MPH, CRNO & Ellen Williams, RN, MA; from Nursing Spectrum.

[Improving the Quality of Pain Assessment Through Research Utilization](#) An Online Continuing Education Program article by Janice K. Janken, RN, PhD, from Sigma Theta Tau International.

[Integration of Behavioral and Relaxation Approaches Into the Treatment of Chronic Pain and Insomnia](#) NIH State of the Science Statement (formerly known as Technology Assessment Conference Statement), October 16-18, 1995.

[Management of the Acute Migraine Headache](#) Online article by Glen Aukerman, MD, Doug Knutson, MD, and William F. Miser, MD, MA, from *American Family Physician*, December 1, 2002.

[Pain Control: A Guide for People with Cancer and Their Families](#) From the National Cancer Institute.

[Pain Management in Critical Care: Practices and Predictors of Analgesic Interventions for Adults Undergoing Painful Procedures](#) Online continuing education article by Kathleen A. Puntillo, Lorie Rietman Wild, Ann Bonham Morris, Julie Stanik-Hutt, Carol Lynn Thompson, and Cheri White; from the *American Journal of Critical Care*, September 2002.

[Pain management—Continuum of care for surgical patients](#) Home Study Program, from *AORN Journal*, September 2003, vol. 78, no. 3, full-text online.

[Paint Your Pain](#) An interactive chart for patients to indicate location and characteristics of their pain. Available online from the [Pain Pathways](#) consumer site, a detailed illustration from [AnaesthesiaUK](#) "an educational site with training resources for anaesthetic professionals."

[Peripheral nerve blocks for postoperative analgesia](#) Home Study Program, full-text online article from *AORN Journal*, January 2002, vol. 75, no. 1.

[Nerve Block Techniques](#) From the [New York School of Regional Anesthesia](#).

[Relief of Pain and Suffering](#) An exhibit covering many theories and scientific discoveries from UCLA.

[Sedation and analgesia in intensive care: Medications attenuate stress response in critical illness](#) An online article by Amy R. Blanchard, MD, from a Symposium on [Critical Care](#) in *Postgraduate Medicine*, February, 2002.

[A Virtual Pocket Dictionary of Pain Terms](#) From the International Association for the Study of Pain.

[World Health Organization Analgesic Ladder Approach For Relief of Cancer Pain](#) From [Cancer Symptoms.org](#).

Journals

[Chiropractic Online Today](#)

[European Journal of Pain](#) Contents and abstracts are available online; full access requires subscription.

[Innovations in End-of-Life Care](#) Archival file of an online bi-monthly journal with peer-reviewed examples of end-of-life care. Last updated April 30th, 2002.

[International Journal of Obstetric Anesthesia](#) Official journal of the [Obstetric Anaesthetists' Association - OAA](#). Tables of contents & abstracts are available online; full access to articles requires subscriptions.

[Journal of PeriAnesthesia Nursing](#) Official Journal of the American Society of PeriAnesthesia Nurses. Full-text articles are available to ASPAN members and personal subscribers starting from 2001 to the present; abstracts, references, and PDFs are available from 1996 to the present. Access to tables of contents and abstracts is complimentary.

[Pain Management Nursing](#) Official Journal of the American Society for Pain Management Nursing. Full-text articles are available to ASPMN members and personal subscribers starting from 2000 to the present. Access to tables of contents and abstracts is complimentary.

[Pediatric Pain Letter](#): Abstracts and Commentaries on Pain in Infants, Children, and Adolescents From the The Pediatric Pain Research Lab, Dalhousie University, Canada.

[Regional Anesthesia and Pain Medicine](#) Official Publication of the American, European, Asian and Oceanic, and Latin American Societies of Regional Anesthesia. Full-text articles are available to ASRA, ESRA, and personal subscribers starting from 2000 to the present; tables of contents

and abstracts are available from 1997 to the present. Access to tables of contents and abstracts is complimentary.

[Techniques in Regional Anesthesia and Pain Management](#) Full-text articles are available to personal subscribers starting from 2000 to the present. Access to tables of contents and abstracts is complimentary.

Agencies and Organizations

[American Academy of Pain Management](#) Includes charts and graphs on pain management database; an extensive site.

[American Academy of Pain Medicine](#)

[Alliance of State Pain Initiatives](#) Includes links to all state initiatives, a list of professional and patient educational materials.

[American Association of Nurse Anesthetists](#)

[American Board of Anesthesiology](#)

[American Chronic Pain Association](#)

[American Council for Headache Education - ACHE](#)

[The American Fibromyalgia Syndrome Association, Inc.](#)

[American Headache Society](#) Formerly the American Association for the Study of Headache.

[American Pain Foundation](#) "Information, advocacy and support." Includes [Pain Care Bill of Rights](#).

[American Pain Society](#)

[American Society of Anesthesiologists](#) Includes a collection of [Standards, Guidelines and Statements](#) online.

[American Society for Pain Management Nursing](#)

[American Society of PeriAnesthesia Nurses](#)

[American Society of Regional Anesthesia and Pain Medicine](#)

[Anesthesia Patient Safety Foundation](#)

[Association for Applied Psychophysiology and Biofeedback](#)

[Cancer Pain & Symptom Management Nursing Research Group](#) Part of the [Toolkit for Nurturing Excellence at End-of-Life Transition \(TNEEL\)](#) web site, funded by the Robert Wood Johnson Foundation; 1999-2003.

[International Association for the Study of Pain - IASP](#)

[MAGNUM, The National Migraine Association](#)

[Memorial Sloan-Kettering Cancer Center Pain Management Program](#)

[National Foundation for the Treatment of Pain](#)

[National Headache Foundation](#) Includes sections for the public and for health professionals.

North American Chronic Pain Association of Canada has merged with the [Chronic Pain Association of Canada](#)

[Obstetric Anaesthetists' Association](#) UK

[Oncology Nursing Society](#)

[SOAP, The Society for Obstetric Anesthesia Perinatology](#)

Temperature

[Evaluation and Treatment of Heat-Related Illnesses](#) An online article from *American Family Physician*, June 1, 2002.

[Geriatric Thermoregulation](#), Research Applied to Clinical Practice, by Robert C. Knies, RN, MSN, CEN, Section Editor, [Emergency Nursing World](#).

[Heat Emergencies](#) By Ann Dye, RN MSN, [Emergency Nursing World](#).

[Hypothermia and Hyperthermia in the Elderly](#) By Maureen Habel, RN, MA, CRRN.; and online continuing education course.

[Hypothermia: Prevention, Recognition and Treatment](#) From a site designed and operated by Robert Douwens, B.C., Canada which emphasizes emergency care for victims of hypothermia.

[Malignant Hyperthermia](#), Research Applied to Clinical Practice, by Robert C. Knies, RN, MSN, CEN, Section Editor, [Emergency Nursing World](#).

Sleep

[Adolescent Sleep Needs and Patterns Research Report and Resource Guide](#) Includes access to a report from the National Sleep Foundation's Sleep And Teens Task Force.

[American Academy of Sleep Medicine](#) Includes a list of [Accredited Sleep Disorders Centers](#).

[Circadian Rhythms and Shift Work](#) Revised by the Wellness Section under the direction of Harold A. Thomas, Jr, MD, FACEP Wellness Section Steering Committee Chair August 2003, [American College of Emergency Physicians](#).

[Delayed sleep phase syndrome \(DSPS\)](#) From the SleepChannel, an extensive resource.

[Innovations in Critical Care: The Effect of Earplugs on Sleep Measures During Exposure to Simulated Intensive Care Unit Noise](#) An online article by C. Jane Wallace, RN, PhD, Jeanette Robins, BS, RPSGT, Lynn S. Alvord, PhD, and James M. Walker, PhD, from *American Journal of Critical Care*, July 1999, vol. 8, no. 4wew.

[Integration of Behavioral and Relaxation Approaches Into the Treatment of Chronic Pain and Insomnia](#) NIH State of the Science Statement (formerly known as Technology Assessment Conference Statement), October 16-18, 1995.

[National Center on Sleep Disorders Research](#), National Heart, Lung and Blood Institute. There is also an [NIH National Sleep Disorders Research Plan](#). Some materials require [Adobe Acrobat Reader](#).

[New Abstracts and Papers in Sleep \(NAPS\)](#)

[Restless Legs Syndrome: Detection and Management in Primary Care](#)
From the National Heart Lung and Blood Institute; requires [Adobe Acrobat Reader](#).

[Sleep and Aging](#) An extensive site from the [National Sleep Foundation](#).

[Sleep disorders](#) Includes links to specific disorders; from the Medical Encyclopedia, Medline Plus.

[Sleep Disorders and Sleep Problems in Childhood](#) An online article from *American Family Physician*, January 15, 2001.

[The Sleep Home Pages](#) Funded in part by a grant from the National Institute of Mental Health. Includes an online syllabus [Basics of Sleep](#).

[Sleep in America Poll](#) From the National Sleep Foundation.

[The Sleep Medicine Home Page](#) A metasite listing links to other web resources, including organizations, disorders, and medications.

[Sleep Problems in the Elderly](#) An online article by David N. Neubauer, M.D. from *American Family Physician*, May 1, 1999.

[Snoring: Not Funny, Not Hopeless](#) An illustrated online article by Peter J. Casano, M.D.; [Sinus Care Center](#), Jackson, Mississippi.

[Stanford Primary Care Sleep Education Project](#)

[Treatment of Sleep Disorders of Older People](#) A National Institutes of Health Consensus Development Conference Statement, March 26-28, 1990.

Journals

[Journal of Sleep Research](#) Tables of contents are available online.

[SLEEP](#) Official journal of the American Academy of Sleep Medicine and the Sleep Research Society; tables of contents are available online.

[Sleep Medicine](#) Full-text articles are available from 2000 to the present. Access to the site is complimentary for a limited time.

[Sleep Medicine Reviews](#) Full-text articles are available from 1999 to the present. Access to abstracts is complimentary. Access to full-text is limited to print subscribers.

[Sleep Research Online](#) An open access, online journal.

Agencies and Organizations

[American Academy of Sleep Medicine](#) Formerly the American Sleep Disorders Association.

[British Sleep Society](#)

[Canadian Sleep Society](#)

[National Sleep Foundation](#)

[Nurse Healers Professional Associates International: The Official Organization for Therapeutic Touch](#)

[Restless Legs Syndrome Foundation](#)

[Sleep Research Society](#)

[Society for Research on Biological Rhythms](#)

[World Federation of Sleep Research Societies](#)

Sensory Function

[American Academy of Otolaryngology-Head and Neck Surgery](#) "Patient Info" contains sites on [Smell and Taste Disorders](#) and [How the Ear Works](#).

[Eye and Ear](#) On JayDoc HistoWeb; lavish illustrations; University of Kansas Medical Center.

[Hearing, Ear Infections, and Deafness, Smell and Taste](#) Information from the [National Institute on Deafness and Other Communication Disorders](#).

[It Takes a Lot of Nerve: A Two-Level Case Study Designed to Teach the Physiology of the Nervous System](#) by Tangi Mitchell and Cheryl L. Watson, Biological Sciences, Central Connecticut State University. Includes an accompanying set of [Case Teaching Notes](#).

[Nasal Dysfunction Clinic](#) University of California, San Diego.

[Neurological Eye Simulator](#) From the University of California Davis; "application simulates eye motion and demonstrates the effects of disabling one or more of the 12 eyes muscles and one or more of the 6 cranial nerves that control eye motion"; teaches what to look for during a standard neurological eye exam; requires [Shockwave](#) (free plug-in).

[The Perceptual Science Group](#) From MIT. Site includes specific sensory illusions.

[Physiology of Taste](#) In [Pathophysiology of the Digestive System](#), from Colorado State University.

[Sensory Evaluation/Sensory Physiology](#) By Nancy L. DeVore, Oregon State University, Corvallis.

Agencies and Organizations

[American Academy of Neurology](#)

[American Association of Neuroscience Nurses](#)

[Vestibular Disorders Association](#)

Acoustic

[Audiology](#) Copyright © 1996. All Rights Reserved. The Bobby R. Alford Department of Otorhinolaryngology and Communicative Sciences, Baylor

College of Medicine. Provides explanations and illustrations of hearing disorders and audiology techniques.

[Otitis Externa: A Practical Guide to Treatment and Prevention](#) An online article from *American Family Physician*, March 1, 2001.

Journals

[American Journal of Otolaryngology](#) Full-text articles are available to personal subscribers starting from July-August 2000 to the present. Access to tables of contents and abstracts is complimentary.

Agencies and Organizations

[Acoustic Neuroma Association](#)

[Alexander Graham Bell Association for the Deaf and Hard of Hearing](#)

[American Neurotology Society](#)

[American Otological Society](#)

[American Speech-Language-Hearing Association](#)

[Canadian Cultural Society of the Deaf](#)

[Canadian Hearing Society](#)

[Laurent Clerc Deaf Education Center, Gallaudet University/National Deaf Education Network and Clearinghouse](#)

[National Association of the Deaf](#)

[National Institute on Deafness & Other Communication Disorders](#)

[The Prosper Ménière Society](#)

[Self-Help for Hard of Hearing People](#)

[Society of Otolaryngology and Head-Neck Nurses](#)

Visual

[All About Vision](#) and Virtually Everything in Sight "registered service marks of Access Media Group, LLC. Copyright 2000-2005 Access Media Group." Site includes information on many eye disorders illustrated with graphics and interactive features, such as the [Amsler grid](#) for evaluation of macular degeneration. Also includes a section on [Computer Vision](#) issues.

[Diseases and Conditions Simulations](#) from Pharmacia Corporation. Text and simulations for a variety of disorders so you can experience a little of what it is like to have a specific visual disorder. Also features links to relevant web resources.

[The Eye](#) An extensive online lecture with animations, simulations, and interactive experiments related to vision. Part of the extraordinary site on [Neurophysiology](#) An extensive collection of detailed tutorials on neurophysiologic functions with flash animations and online interactive experiments. Check out the one on "squinting"!

[Eye Disease Simulations](#) Pictures that demonstrate how the world appears to individuals with different eye diseases; from the [National Eye Institute](#).

[The Eyes](#) From the [Clinical Practice Guidelines for Nurses in Primary Care](#); includes a section on assessment.

Select **EYES** topics from [Screening Physical Exam](#) By Arcot J Chandrasekhar, MD, FRCP, FACP, FCCP, for online illustrated lessons; from Loyola University.

[Eyes and Vision Topics](#) A directory to topical collections of web resources on these topics; from Medline Plus. Includes online tutorials and links to relevant organizations.

[Glaucoma Medications and their Side Effects](#) From the [New York Glaucoma Research Institute](#).

[The Joy of Visual Perception: A Web Book](#) By Peter K. Kaiser, Web/HTML Support by Rod Potter York University. Extensive illustrated online resource with some fascinating interactive online activities under "Fun Things".

[National Eye Health Education Program \(NEHEP\)](#) Information in English and Spanish from the National Eye Institute. Covers [Diabetic Eye Disease](#), [Glaucoma](#), and [Low Vision](#).

[Neurological Eye Simulator](#) From the University of California Davis; "application simulates eye motion and demonstrates the effects of disabling one or more of the 12 eyes muscles and one or more of the 6 cranial nerves that control eye motion"; teaches what to look for during a standard neurological eye exam; requires [Shockwave](#) (free plug-in).

[Policy Statements and Guidelines](#) and [Public Information](#) From the [Canadian Ophthalmological Society](#).

[A Practical Guide to Drug-Induced Ocular Side Effects](#) On the [New York Glaucoma Research Institute](#) server, reprinted with permission from *Review of Ophthalmology*, Kristine Morrell, Managing Editor.

[Using Glaucoma Eyedrops](#) and [Topical Therapies for Glaucoma: What Family Physicians Need to Know](#) Online articles from the American Academy of Family Physicians, *American Family Physician*, April 1, 1999.

[Vision-Related Terms--Selected Online Sources](#), [Diagram of the Eye](#) and [Normal Eye Anatomy](#) (a collection of illustrations) from the [National Eye Institute](#). [Eye Charts](#) are also available online.

[Webvision](#) From the University of Utah; an extensive and well-illustrated site about the human retina.

Journals

[DJO: Digital Journal of Ophthalmology](#)

[Journal of AAPOS](#) Official publication of the American Association for Pediatric Ophthalmology and Strabismus. Full-text articles are available to AAPOS members and personal subscribers starting from 1999 to the present; Abstracts, References and PDFs are available from 1997 to the present. Access to tables of contents and abstracts is complimentary.

Agencies and Organizations

[American Foundation for the Blind](#)

[American Optometric Association](#)

[Association for Macular Diseases](#)

[Association for Research in Vision and Ophthalmology](#)

[Canadian Association of Optometrists](#)

[Canadian National Institute for the Blind](#)

[Canadian Ophthalmological Society](#)

[Eye Bank Association of America](#)

[Glaucoma Foundation](#)

[Guide Dogs for the Blind, Inc.](#)

[Guiding Eyes for the Blind](#)

[Macular Degeneration Foundation](#)

[The Macula Foundation](#)

[National Alliance for Eye and Vision Research](#)

[National Association for Visually Handicapped](#)

[The National Braille Association](#)

[National Eye Institute](#) An extensive site with a Patient and Public area that includes factsheets on most common eye diseases.

[The National Federation of the Blind Audio Page](#) Requires [Real One](#) [formerly Real Audio] player.

[Prevent Blindness America](#)

[Recording for the Blind & Dyslexic, Inc.](#)

[Sjogren's Syndrome Foundation Inc.](#)

[Talking Books: National Library Service for the Blind & Visually Handicapped](#) At the Library of Congress, Washington, DC.

16: Concepts of Neurologic Dysfunction

[Advances in the Treatment of Epilepsy](#) Online article by Selim R. Benbadis, MD, and William O. Tatum IV, DO; from *American Family Physician*, July 1, 2001; includes a link to a patient handout.

[Brain Functions and Map](#) By Robert P. Lehr Jr., PhD, Professor Emeritus, Department of Anatomy, School of Medicine, Southern Illinois University.

Scroll down to the brain image and click on different sections of the brain to review brain functions; from the [Centre for Neuro Skills](#), a multi-site brain injury rehabilitation company. Check out the Multi-Media Center for sample videos on brain injury.

[Central Nervous System Exam](#) By Arcot J. Chandrasekhar, MD, FRCP, FACP, FCCP, Loyola University. Detailed illustrated review of multiple systems related to the neurological exam.

[EMG & Nerve Conductions Homepage](#) By Joe F. Jabre, MD; includes Electronic EMG Manual ©; Quick-Anatomy: Nerves; Quick-Anatomy: Muscles; Quick Set-Ups: Nerve Conductions; Nerve Conduction TeleEMG Calculator ©.

[History & Physical Examination: Clinical Patterns](#) Part of the web site [Neuromuscular Evaluation Protocols](#) on the [Neuromuscular Disease Center](#) site, Washington University School of Medicine, St. Louis. Also includes information on [Lab Testing: Especially for treatable diagnoses after history & examination](#) and [Nerve Biopsy](#).

[Ketogenic Diet and Vagus Nerve Stimulator](#) A directory to information resources available on the web from the Pediatric Epilepsy Center, [Washington University Comprehensive Epilepsy Program](#).

[Management of Seizures and Epilepsy](#) Online article by William J. Marks, JR., MD, and Paul A. Garcia, MD; from *American Family Physician*, April 1, 1998.

[Medscape Neurology & Neurosurgery](#) Exceptional online resource that includes access to news, journals, and much more. Requires registration, which is free.

[NeuroAnatomy Pathology on the Internet](#) Copyright by Katalin Hegedüs. A comprehensive list of links to online lectures, textbooks, and tutorials related to neuroanatomy, neuropathology, neurology. Contains excellent links to sites explaining neurological [signs and symptoms](#) from A (Adie's tonic pupil) to W (Weakness).

[Neuroexam.com](#) Includes online video clips using RealOne, formerly RealPlayer, and includes a broad selection of topics related to the neurological exam. Companion site for *Neuroanatomy through Clinical Cases* by Hal Blumenfeld, MD, PhD.

[NeuroLogic: An anatomical approach to the neurological exam](#) By Paul D. Larsen, MD, University of Nebraska School of Medicine Suzanne S. Stensaas, PhD, University of Utah School of Medicine. This site includes extensive Quicktime audio/video presentations.

[The Neurologic Exam](#) Created by Marvin Sodicoff, PhD. Adapted by Rod Bain and Andrew Blum, Temple University. Includes audio/video clips. Part of a larger site [The Neuroanatomy Lab](#) that includes Atlases and Brain Sections.

[Neurological Eye Simulator](#) From the University of California Davis; "application simulates eye motion and demonstrates the effects of disabling one or more of the 12 eyes muscles and one or more of the 6 cranial nerves that control eye motion"; teaches what to look for during a standard neurological eye exam; requires Shockwave (free plug-in).

Select **Nervous System** topics from [Screening Physical Exam](#) By Arcot J. Chandrasekhar, MD, FRCP, FACP, FCCP, for online illustrated lessons; from Loyola University.

[NINDS Epilepsy Information Page](#) from the National Institute of Neurological Disorders and Stroke.

[Online Neuropathology Atlas](#) Created by Prof. Katalin Hegedüs and Prof. László Molnár.

[Scales and Indexes](#) From the Department of Neurology Residency Program, Yale University. Includes interactive Glasgow Coma scales and the NIH Stroke Scale.

[Screening Physical Exam](#) Select the section on the **Nervous System**, by Arcot J. Chandrasekhar, MD, FRCP, FACP, FCCP, Loyola University.

[Washington University Comprehensive Epilepsy Program](#) All contents Copyright © Washington University at St. Louis, Missouri. All rights reserved; extensive collection of links to epilepsy related sites.

[When a headache isn't just a headache](#) An online article from *Neurology Reviews*, November 2000.

Journals

[Brain Pathology](#) Official journal of the International Society of Neuropathology. Selected items are available in PDF format full-text online.

[Brainwaves](#) Newsletter from Johns Hopkins University.

[Journal of Clinical Neuroscience](#) The official journal of [Neurosurgical Society of Australasia](#), the [Australian Association of Neurologists](#), the [Australian and New Zealand Society for Neuropathology](#), the Taiwan Neurosurgical Society, and the Asian/ Australian Society of Neurological Surgeons.

[The Journal of Neuroscience Online](#) Tables of contents, abstracts, and selected items are available online; full access requires subscription; from the Society for Neuroscience.

[Seizure](#) A journal about seizures and epilepsy. Tables of contents and abstracts are available open access online; full access is available by subscription.

Agencies and Organizations

[Academy of Aphasia](#)

[American Association of Neuroscience Nurses](#)

[American Congress of Rehabilitation Medicine](#)

[American Society of Neuroradiology](#)

[Association of Rehabilitation Nurses](#)

[Epilepsy Foundation of America](#) Includes a section on [Epilepsy and Seizure Statistics](#).

[Heart and Stroke Foundation of Canada](#)

[National Headache Foundation](#)

[National Stroke Association](#)

[Society for Neuroscience](#)

17: Disorders of Neurologic Function

[Advances in the Treatment of Epilepsy](#) Online article by Selim R. Benbadis, MD, and William O. Tatum IV, DO; from *American Family Physician*, July 1, 2001; includes a link to a patient handout.

[The Brain Attack Coalition](#) This site is designed for health professionals, especially those working as part of stroke teams. Includes direct links to Scales and Guidelines from a variety of sites.

[The Brain Eater](#) Companion web site to the program presented on PBS about Mad Cow Disease and its transmission to humans through the food chain.

[Coma](#) From NOVA Online, produced for PBS by the WGBH Science Unit.

[Dana BrainWeb](#) An extensive site from the Dana Foundation that includes information on Memory, Alzheimer's Disease, Head Injuries, Stroke, Parkinson's Disease and more.

[Degenerative Spine Disease](#) Online article by John R. Hesselink, MD, FACR, with references; from the [Degenerative Disease Syllabus, Teaching File Database](#), from the University of California San Diego.

[Herniated nucleus pulposus \(slipped disk\)](#) Illustrations and information from the Medical Encyclopedia, Medline Plus.

[Killer Disease on Campus](#) Companion web site to the PBS program on meningococcal meningitis. Includes an [animation](#) of "how meningococcal bacteria wreak havoc inside a victim's body".

[Meningococcal Disease](#) General and technical information from the Centers for Disease Control and Prevention.

[Neurological Eye Simulator](#) From the University of California Davis; "application simulates eye motion and demonstrates the effects of disabling one or more of the 12 eyes muscles and one or more of the 6 cranial nerves that control eye motion"; teaches what to look for during a standard neurological eye exam; requires [Shockwave](#) (free plug-in).

[Spinal Cord Injury Nutrition Facts: 1 2, 3, 4, 5, and 6](#) From the the Institute for Rehabilitation and Research, affiliated with Baylor College of Medicine.

[Spinal Cord 101](#) An online overview of the spinal cord and spinal cord injury from the [Spinal Cord Injury Resource Center](#).

[Spinal Cord Injury Resources](#) A site created and maintained by Jim Lubin, a "C2 quadriplegic, completely paralyzed from the neck down and dependent on a ventilator to breathe, using an keyboard/mouse emulator with a sip and puff switch to type morse codes".

[Toxic Neuropathies: Clinical and Pathological Features](#) From the Department of Neurology, Washington University in St. Louis.

Agencies and Organizations

[American Academy of Neurology](#) This site includes fact sheets on many disorders.

[American Academy of Pain Medicine](#)

[American Academy of Pain Management](#) Includes charts and graphs on pain management and database; extensive site.

[American Association of Neuroscience Nurses](#)

[American Chronic Pain Association](#)

[American Spinal Injury Association](#)

[Association of Rehabilitation Nurses](#)

[American Stroke Association](#) A division of the American Heart Association.

[Brain Injury Association](#)

[Canadian Paraplegic Association](#)

[Canadian/American Spinal Research Organization](#)

[Epilepsy Foundation of America](#) Includes a section on [Epilepsy and Seizure Statistics](#).

[Meningitis Foundation of America Inc.](#)

[National Brain Tumor Foundation](#)

[National Institute of Neurological Disorders and Stroke](#)

[National Parkinson Foundation](#)

[National Spinal Cord Injury Association](#)

[National Stroke Association](#)

[Paralyzed Veterans of America](#)

[Society of Neurosurgical Anesthesia and Critical Care \(SNACC\)](#)

[Trigeminal Neuralgia Association](#)

18: Neurobiology of Schizophrenia, Mood Disorders, and Anxiety Disorders

[Neuropsychology Central](#) An extensive commercial site. Copyright © by Telepsychology Solutions.

[Neurosciences on the Internet](#) Edited and maintained by Neil A. Busis, MD. Copyright © by Neil A. Busis, MD. All rights reserved. A massive and well-organized collection of links to other sites dealing with neurology.

[The Schizophrenia Home Page](#)

[Schizophrenia: A Handbook For Families](#) By Health Canada in Co-operation with the Schizophrenia Society of Canada, Canada.

[Whole Brain Atlas](#) By Keith A. Johnson, MD, and J. Alex Becker; an exceptional site.

Agencies and Organizations

[American Academy of Neurology](#)

[American Association of Neuroscience Nurses](#)

[American Psychiatric Association](#)

[American Psychiatric Nurses Association](#)

[American Psychological Association](#)

[Association of Child and Adolescent Psychiatric Nurses-ACAPN](#)

[Cognitive Neuroscience Society](#)

[College of Registered Psychiatric Nurses of Manitoba](#)

[International Society of Psychiatric-Mental Health Nurses](#)

[National Institute of Mental Health](#)

[Registered Psychiatric Nurses Association of Alberta](#)

Special MEDLINE Note on searching for articles related to depression and other mental disorders:

MEDLINE uses the following heading for organic mental disorders - Delirium, Dementia, Amnestic, Cognitive Disorders; to search for articles on depression (severe, chronic disease) use the heading Depressive Disorders; the heading Depression is used to search situational depression and short term depression.

19: Alterations of Neurologic Function in Children

[American Academy of Neurology Practice Guidelines](#) These cover a wide range of topics, many of which specifically concern children.

[Bacterial meningitis in children and adults: Changes in community-acquired disease may affect patient care](#) By Elizabeth J. Phillips, MD, FRCPC, and Andrew E. Simor, MD, FRCPC; *Postgraduate Medicine*, March 1998; 103(3); full-text online.

[Embryonic Development](#) Slide illustrations from the "[Babies and Birth Defects: A Mystery in Texas](#)" educational module "designed to teach middle school and high school students about epidemiology, neural tube birth defects, and folic acid" from the CDC's National Center on Birth Defects and Developmental Disabilities (NCBDDD); includes illustration of

neural tube defect development. Includes sections on developmental milestones, specific disorders and neuroanatomy.

[Folic Acid](#) A site from the National Center on Birth Defects and Developmental Disabilities (NCBDDD), Centers for Disease Control and Prevention. Includes links to relevant reports from *MMWR: Morbidity and Mortality Weekly Report*

[Fortnightly review: The muscular dystrophies](#) Online article by Alan E H Emery, from *BMJ* 1998;317:991-995 (10 October); includes definitions and classifications and illustrations.

[A Good Start in Life: Understanding Your Child's Brain and Behavior](#) By Norbert Herschkowitz, MD, and Elinore Chapman Herschkowitz. Foreword by Jerome Kagan; 288 pages, 2002; available full-text online from the National Academy Press.

[Haemophilus influenzae type b](#) One of the many [vaccine preventable illnesses](#) reviewed at the extensive [Childhood Immunization Support Program \(CISP\)](#) web site of the American Academy of Pediatrics. Includes an online video presentation.

[Hydrocephalus](#) From Medline Plus; provides links to web resources.

[Infants with Anencephaly as Organ Sources: Ethical Considerations](#) Policy Statement from the American Academy of Pediatrics. Includes an extensive list of references.

[Lissencephaly Network, Inc.](#) Includes a parents' guide to the disorder.

[Neonatal Abstinence Syndrome](#) From the High Risk Newborn site of the University of Utah Health Sciences Center.

[Neonatal Drug Exposure](#) A training module that "addresses the impacts of cocaine, heroin, smoking tobacco, and alcohol on infants." From the Arizona Supreme Court.

[Neonatal Herpes Simplex Virus Infections](#) An online article by Caroline M. Rudnick, MD, PHD, and Grant S. Hoekzema, MD, [American Family Physician](#) March 15, 2002.

[The Neurodiagnostic Evaluation of the Child With a First Simple Febrile Seizure](#) Practice Guideline from the American Academy of Pediatrics.

[Neuroneonatology](#) An extensive illustrated site on neurologic aspects of the neonate and neonatal neurologic problems; available in English and Spanish; by Israel Alfonso, MD, Oscar Papazian, MD, Donald Altman, MD; and Andrew Kairalla, MD.

[NINDS Craniosynostosis Information Page](#) Overview of the disorder and links to organizations and additional information from the National Institute of Neurological Disorders and Stroke.

[NINDS Hydrocephalus Information Page](#) Overview of the disorder and links to organizations and additional information from the National Institute of Neurological Disorders and Stroke.

[NINDS Reye's Syndrome Information Page](#)

[OMIM™ Online Mendelian Inheritance in Man](#) An extensive database of genetically related disorders, including links to gene maps and MEDLINE references.

[Pediatric Chronic Pain](#) "A Position Statement from the American Pain Society", full text online.

[Pediatric Pain: Science Helping Children](#) From the IWK Grace Health Centre and the Psychology Department of Dalhousie University in Halifax, Nova Scotia, Canada.

[Pediatrics: Febrile Seizures](#) By William T. Zempsky, MD, from eMedicine.

[Perioperative Pain Management in Newborns](#) Online review from eMedicine.

[Pesticides and Childhood Cancer](#) Online article from *Environmental Health Perspectives* 106, Supp.3, June 1998.

[Progress Toward Elimination of Haemophilus influenzae Type b Invasive Disease Among Infants and Children --- United States, 1998--2000](#)
MMWR March 22, 2002 / 51(11);234-7.

[Reye Syndrome](#) Extensive online article by Debra L Weiner, MD, PhD, from eMedicine.

[Role of Imaging in Hydrocephalus](#) From PediatricsOnCall; includes CAT scans.

[Routine screening cranial ultrasound examinations for the prediction of long term neurodevelopmental outcomes in preterm infants](#) A position statement from the Fetus and Newborn Committee, Canadian Paediatric Society.

[Screening for Neural Tube Defects](#) From the *Guide to Clinical Preventive Services*.

[The Team Approach in the Care of the Child with Myelomeningocele](#) Extensive online article from the *Journal of Prosthetics and Orthotics*, 1990.

[Washington University Comprehensive Epilepsy Program: Pediatric Epilepsy Center](#) All contents Copyright © Washington University at St. Louis, Missouri. All rights reserved; includes an extensive collection of links to epilepsy related sites.

[Wong On Web](#) An extensive resource featuring Donna Wong, PhD, RN, PNP, CPN, FAAN; includes procedures, special sections on pediatric pain, and more.

[Young People at risk: HIV/AIDS among America's Youth](#), from the Centers for Disease Control and Prevention, last updated March 2002.

Agencies and Organizations

[American Academy for Cerebral Palsy and Developmental Medicine](#)

[American Board of Genetic Counseling](#)

[Anencephaly Support Foundation](#)

[Children's Brain Tumor Foundation](#)

[Developmental Disabilities Nurses Association](#)

[Epilepsy Foundation of America](#) Includes a section on [Epilepsy and Seizure Statistics](#).

[Hydrocephalus Association](#) San Francisco.

[Hydrocephalus Foundation, Inc.](#) Massachusetts

[International Birth Defects Information Systems](#) An extensive site that provides extensive information on birth defects, prevention, and links to web resources on a great number of genetic disorders. Includes sites in multiple languages.

[International Myotonic Dystrophy Organization](#)

[Muscular Dystrophy Association](#)

[National Center for Birth Defects and Developmental Disabilities](#) An extensive site from the Centers for Disease Control; includes a section on [Disability and Health](#).

[National Dysautonomia Research Foundation](#)

[National Hydrocephalus Foundation](#)

[National Institute of Neurological Disorders and Stroke](#)

[National Newborn Screening and Genetics Resource Center](#) web site: GeNeS-R-US, (Genetic and Newborn Screening Resource Center of the United States).

[National Organization for Rare Disorders - NORD](#) Includes access to abstracts defining many rare disorders; additional information is available for purchase.

[National Reye's Syndrome Foundation](#)

[Office of Genomics and Disease Prevention](#) of the Centers for Disease Control and Prevention; available in English and [Spanish](#). This site is part of [HuGENet™](#), "a global collaboration of individuals and organizations who develop and communicate epidemiologic information on the human genome", which includes a journal club, case studies, and literature database.

[Office of Rare Diseases](#) From the National Institutes of Health.

[Parent Project Muscular Dystrophy](#) Advocate group for research, includes current news feature and information on specific disorders.

[Spina Bifida and Hydrocephalus Association of Canada](#)

[The Spina Bifida Association of America](#) Contains information and links to related sites. Also contains information on Agent Orange and latex allergy.

[UCPnet - United Cerebral Palsy](#) An extensive site.

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

Consider using the following MeSH (**M**edical **S**ubject **H**eading) terms when doing searches on some of the topics in the above chapters:

Neurology (the profession)	Sensation Disorders
Pain	Nervous System
Nervous System Diseases	Brain
Epilepsy	Brain Injuries
Unconsciousness	Seizures
Cerebrovascular Disorders (MeSH for stroke)	Neurologic Manifestations
Nervous System Abnormalities	Mental Retardation
Neuromuscular Diseases	Nerve Degeneration
Neurologic Manifestations	Peripheral Nervous System Diseases

or specific headings for nervous system diseases or parts of the nervous system:

Spinal Cord	Spinal Cord Injuries
Headache	
Sense Organs	Neurons, Afferent
Hair Cells	Olfactory Receptor Neurons
Receptors, Sensory	Photoreceptors
Mechanoreceptors	Retinal Ganglion Cells
Chemoreceptors	Nociceptors

Printed Documentation

Thermoreceptors	Sensory Thresholds
Sensation	Taste
Smell	Hearing
Pain	Touch
Vision	Temperature Sense
Proprioception	

or the subheading pp - pathophysiology combined with specific subject headings such as:

Ear	Eye
Nose	Taste Buds

Click here for a focused MEDLINE search on the [febrile seizures](#).

Endocrine System

The Endocrine System

20. [Mechanisms of Hormonal Regulation](#)
21. [Alterations of Hormonal Regulation](#)

20: Mechanisms of Hormonal Regulation

[Carbohydrate Metabolism Regulation Problem Set](#) From the University of Arizona's Biology Project.

[The Endocrine System](#) From JayDoc, University of Kansas Medical Center; histology illustrations and text.

[Endocrine System \(Hormones\) Topics](#) A directory to topical collections of web resources on these topics; from Medline Plus. Includes online tutorials and links to relevant organizations.

[EndocrineWeb](#) "Written by doctors for patients"; includes information on specific diseases and a "locate an endocrinologist" feature.

[Glands](#) Histologic images and text from JayDoc, University of Kansas Medical Center.

[The Hormones of the Human](#) From [Kimball's Biology Pages](#).

[Pathophysiology of the Endocrine System](#) A hypertextbook from Colorado State University; includes sections on hormones, receptors and target cells, overview of endocrinology and more.

[Steroid Hormone Response](#) and [Feedback Loops](#) and [Peptide Hormones](#) Animations from the Human Physiology Homepage at Connecticut College.

Agencies and Organizations

[American Association of Clinical Endocrinologists](#)

[American Thyroid Association](#)

[Endocrine Society](#)

[The Hormone Foundation](#) "The public education affiliate of the Endocrine Society"; site includes on a wide variety of endocrine disorders, on menopause, osteoporosis, clinical trials, and more.

21: Alterations of Hormonal Regulation

[AIDA](#) "Freeware diabetes software simulator program of blood glucose-insulin interaction See the effects of changes in insulin & diet on example patients' blood glucose profiles."

[American Diabetes Association: Clinical Practice Recommendations 2004](#) Full-text online. [American Diabetes Association: Clinical Practice Recommendations 2005](#) Extracts are available online.

[Ask the Dietician](#) By Joanne Larsen, MS, RD, LD; includes sections on [Diabetes](#) and [Diabetic Exchanges and Carb Counting](#); uses a question and answer format.

[CDC's Diabetes Public Health Resource](#)

[Children with Diabetes On-line Community](#)

[A Clinical Evaluation of the Thyroid in Health and Disease](#) By Donald L. Gordon, MD, FACE; technical help by Baltazar R. Espiritu, MD; Loyola University.

[Clinical Practice Guidelines](#) from the [American Association of Clinical Endocrinologists](#) Includes diabetes mellitus, hypo- and hyperthyroidism, and more.

[Diabetes in America, 2nd ed.](#) Full-text online; requires [Adobe Acrobat Reader](#).

[Diabetic Ketoacidosis, Pediatrics](#) By Grace M. Young, MD, on eMedicine.

[Diabetes Mellitus](#) A tutorial from the Internet Pathology Laboratory.

[Endocrine and Metabolic Diseases](#) From the National Institute of Diabetes and Digestive and Kidney Diseases; includes Acromegaly; Addison's Disease; Cushing's Syndrome; Cystic Fibrosis Research Directions; Familial Multiple Endocrine Neoplasia Type 1; Hyperparathyroidism; Prolactinoma.

[Endocrine Pathology Index](#) Histologic illustrations and explanatory text from the Internet Pathology Laboratory.

[EndocrineWeb](#) "written by doctors for patients"; includes information on specific diseases and a "locate an endocrinologist" feature.

[ESPE/LWPES consensus statement on diabetic ketoacidosis in children and adolescents](#). *Archives of Disease in Childhood* 2004;**89**:188-194

[Hematologic, Electrolyte, and Metabolic Disorders](#) From the *University of Iowa Family Practice Handbook*, 4th Edition; by Ke Chen, MD, PhD, and Mark A. Graber, MD; includes sections on hypothyroidism, thyroid storm, myxedema coma, and hyperthyroidism.

[Hypoglycemia](#) From the National Diabetes Information Clearinghouse.

[Hypothyroidism](#) One of many online resources on [Thyroid Disorders](#) from the [American Thyroid Association](#).

[Improving Diabetes Care and Outcomes: Public Health Division, NSW, Australia](#) Includes an online manual "Principles of Care and Guidelines for the Clinical Management of Diabetes", which requires Adobe Acrobat for full access.

[Is It Hyperthyroidism? You can't always tell from the clinical picture](#) Online article by Ghada Haddad, MD, from [Symposium on Endocrine Problems](#), *Postgraduate Medicine*, July 1998.

[Lilly Diabetes.com, Diabetes Education Center for the U.S.](#) From the Eli Lilly company.

[Myxedema Coma: Diagnosis and Treatment](#) A complete online article by Cristen Rhodes Wall, MD; from *American Family Physician*, December 1, 2000.

[National Diabetes Education Program](#) Includes Spanish and Asian language materials.

[Newborn Screening for Congenital Hypothyroidism: Recommended Guidelines](#) From the American Academy of Pediatrics.

[OMIM™ Online Mendelian Inheritance in Man](#) An extensive database of genetically related disorders, including links to gene maps, and MEDLINE references.

[Patient Fact Sheets](#) Covering a variety of topics, from the [Hormone Foundation](#) "the public education affiliate" of the Endocrine Society.

[The Skin and Diabetes Mellitus](#) By Arthur C. Huntley MD, *Dermatology Online Journal*, December 1995 Volume 1, Number 2.

[Symposium on Intensive Diabetes Management](#) Full-text online article from *Postgraduate Medicine* online, May 2002.

[Symposium on Thyroid Disease](#) Full-text online article from *Postgraduate Medicine* online, January 2000.

[Technical Report: Congenital Adrenal Hyperplasia](#) Policy Statement from the American Academy of Pediatrics.

[Thyroid Disease Manager](#) This is an extensive site "developed by Leslie J. De Groot, MD, Georg Hennemann, MD, and a Group of Thyroid Experts from around the world. It is owned and copyrighted in its entirety by Endocrine Education, Inc., a Massachusetts not-for-profit corporation." It includes sections on structure and function, and algorithms, and much more.

[Treatment of Hypothyroidism](#) Online article from *American Family Physician*, November 15, 2001.

[Urbana Atlas of Pathology: Endocrine Gland Pathology](#)

Journals

[Prostaglandins](#) - free full text articles from PubMed.

[Clinical Endocrinology](#) - free full text articles from PubMed.

[Metabolism](#) - free full text articles from PubMed.

Agencies and Organizations

[American Association of Clinical Endocrinologists](#)

[American Association of Diabetes Educators](#)

[American Cancer Society](#) Includes [Facts and Figures](#) section.

[American Diabetes Association](#)

[American Thyroid Association](#)

[British Society For Paediatric Endocrinology and Diabetes](#)

[Canadian Diabetes Association](#)

[CARES \(Congenital Adrenal hyperplasia Research, Education and Support\) Foundation, Inc.](#) Site includes materials for both public and professionals.

[Cushing's Support and Research Foundation](#)

[Diabetes UK](#)

[Diabetes Public Health Resource](#) From the Centers for Disease Control and Prevention.

[Diabetes Research Institute](#)

[Endocrine Nurses Society](#)

[Endocrine Society](#)

[Federation of European Nurses in Diabetes](#)

[Growth Hormone Research Society](#)

[Human Growth Foundation](#) For "the parents of children, and adults, who have disorders of growth or growth hormone."

[International Diabetes Federation](#)

[International Society for Pediatric and Adolescent Diabetes](#)

[Joslin Diabetes Center](#)

[Juvenile Diabetes Research Foundation International](#)

[National Adrenal Diseases Foundation](#)

[National Diabetes Information Clearinghouse](#)

[National Institute of Diabetes and Digestive and Kidney Diseases - NIDDK](#)

[Pediatric Endocrinology Nursing Society](#)

[Society for Endocrinology, UK](#)

[Thyroid Foundation of America](#)

[Thyroid Foundation of Canada](#)

[Turner's Syndrome Society of Canada](#)

[Turner Syndrome Society of the United States](#)

Reproductive System

22. [Structure and Function of the Reproductive System](#)

23. [Alterations of the Reproductive System](#)

24. [Sexually Transmitted Infections](#)

22: Structure and Function of the Reproductive System

[Age at Menarche and Racial Comparisons in US Girls](#) Online article by William Cameron Chumlea, PhD, Christine M. Schubert, MS, Alex F. Roche, MD, PhD, DSc, Howard E. Kulin, MD, Peter A. Lee, MD, PhD, John H. Himes, PhD, MPH and Shumei S. Sun, PhD; from the journal *Pediatrics*, January 2003, Vol. 111, No. 1, pp. 110-113.

[Aging changes in the female reproductive system](#) Information and illustrations from the Medical Encyclopedia, Medline Plus.

[Aging changes in the male reproductive system](#) Information and illustrations from the Medical Encyclopedia, Medline Plus.

Select **External Genitalia** or **Gynecology** topics from [Screening Physical Exam](#) By Arcot J Chandrasekhar, MD, FRCP, FACP, FCCP for online illustrated lessons; from Loyola University.

[Human Reproduction: Clinical, Pathologic, and Pharmacologic Correlations](#) By Knowledge Weavers, University of Utah. An extraordinary and extensive site.

[Menopause](#) A collection of links to web resources from Medline Plus.

[Menopause Guidebook](#) From the [North American Menopause Society](#).

[Reproductive Health](#) A collection of links to web resources from Medline Plus.

23. Alterations of the Reproductive System

[Cervical Cancer](#) From the National Institutes of Health, Consensus Development Statement, April 1-3, 1996.

[Detailed Guide: Cervical Cancer](#) From the American Cancer Society.

[Detailed Guide: Endometrial Cancer](#) From the American Cancer Society.

[Overview: Ovarian Cancer](#) and [Detailed Guide: Ovarian Cancer](#) From the American Cancer Society.

[The Changing Face Of Women's Health](#) From the [Women's Health Project](#), National Museum of Health and Medicine; a consumer level exhibit that includes interactive online units.

[Clinical Practice Guidelines](#) from the [American Association of Clinical Endocrinologists](#). Includes [Prevention of Postmenopausal Osteoporosis, 2001](#) [with revisions, 2003], and more. These files are in PDF format and require [Adobe Acrobat Reader](#) to view or print.

[Cytopathology--PAP Smears](#) From the Internet Pathology Laboratory.

[Endometriosis](#) From the Endometriosis Treatment Program, St. Charles Medical Center, Bend, Oregon.

[Endometriosis Association](#)

[Female Genital Tract Pathology](#) From the Internet Pathology Laboratory. Includes an animation on conception/fertilization.

[Female Sexual Dysfunction](#) and [Vaginal Diseases](#) A directory of resources from Medline Plus, from the National Library of Medicine.

[The Hormone Foundation](#) "The public education affiliate of the Endocrine Society"; site includes on a wide variety of endocrine disorders, on menopause, osteoporosis, clinical trials, and more.

[Hormone Replacement Therapy](#) A collection of links to web resources from Medline Plus.

[Hormone Replacement Therapy and Cardiovascular Disease](#) A Statement for Healthcare Professionals From the American Heart Association, 2001.

[The Impact of Sex and Gender on Human Physiology and the Experience of Disease](#) [scroll through the pages to select this webcast] Videocast of a workshop from the [Office of Research on Women's Health](#) National Institutes of Health.

[Increased Risk of Ovarian Cancer is Linked to Estrogen Replacement Therapy](#) A summary of the research article from *JAMA*, July 17, 2002, in News from the NCI, from the National Cancer Institute.

[Medscape: Ob/Gyn and Women's Health](#) Another extraordinary Medscape site; includes online continuing medical education.

[Oral Contraceptives and Cancer Risk](#) From the [National Cancer Institute](#).

[Practical Use of the Pessary](#) Online article from *American Family Physician*, May 1, 2000.

[Postmenopausal Hormone Therapy](#) Web site from the National Heart, Lung, and Blood Institute. Includes information for public and professionals and NIH reports.

[Sexual Health Issues](#) A directory of web resources from Medline Plus, from the National Library of Medicine.

[Vaginal Diseases](#) A collection of links to web resources from Medline Plus.

[Vulvar Cancer](#) A collection of links to web resources from Medline Plus.

[Vulvar Cancer](#) Online article from *American Family Physician*, October 1, 2002.

[Ovarian Cancer](#) A collection of links to web resources from Medline Plus.

[Ovarian Cancer](#) An audiovisual program from the National Library of Medicine.

[Uterine Cancer](#) A collection of links to web resources from Medline Plus.

[Women's Health Information](#) From the UK; links to a wide variety of topics and summaries from journals, by Danny Tucker, Specialist Registrar in Obstetrics and Gynaecology and a Member of the UK Royal College of Obstetrics & Gynaecology (MRCOG).

[Women's Health Topics](#) An extensive selection of topics from Medline Plus. Each subject leads to a collection of links to online resources.

[Diagnosis and Treatment of the Acute Scrotum](#) Online article from *American Family Physician*, February 15, 1999.

[Male genital disorders](#) A collection of links to online resources from Medline Plus.

[Male Genital Pathology Index](#) From the Internet Pathology Laboratory.

[Men's Health Issues](#) A collection of links to online resources from Medline Plus.

[The Men's Health Network](#) "a non-profit educational organization" founded by a "group of men's activists and writers interested in improving the health and well-being of men, boys and families."

[Office of Men's Health Resource Center](#) From the Office of Men's Health at the U.S. Department of Health and Human Services.

[Epididymitis](#) Illustrations and information from the Medical Encyclopedia, Medline Plus.

[Erectile Dysfunction](#) From the Doctors' Guide to the Internet.

[Orchitis](#) Illustrations and information from the Medical Encyclopedia, Medline Plus.

[Sexual Problems in Men](#) Patient level information from the [UpToDate Patient Information site](#).

[Testicular Torsion](#) Illustrations and information from the Medical Encyclopedia, Medline Plus.

[Varicocele](#) Illustrations and information from the Medical Encyclopedia, Medline Plus.

[Benign Prostatic Hyperplasia \(Clinical Guide\)](#) Clinical Practice Guideline No. 8, AHCPH Pub. No. 94-0582: February 1994; full text online. **Note:** This document is no longer viewed as guidance for current medical practice.

[Nutrition and Prostate Cancer: A Monograph from the CaP CURE Nutrition Project](#) A publication from the [Association for the Cure of Prostate Cancer](#).

[Prostate Cancer Information](#) From the Urologic Oncology Program at the University of Michigan.

[Detailed Guide: Prostate Cancer](#) and [All About Prostate Cancer](#) From the American Cancer Society.

[Prostatitis Home Page](#) From the [Prostatitis Foundation](#); also includes information about BPH and Prostate Cancer.

[Prostate Pathology](#) An online tutorial from the Internet Pathology Laboratory.

[Prostate Pointers](#)

[Prostate topics](#) Online materials from the American Urological Association's [Urology Health](#) web site designed for patient and consumer level education; requires [Adobe Acrobat Reader](#) to access.

[Saw Palmetto](#) An alternative therapy for benign prostatic hypertrophy; from the FamilyPractice Notebook web resource.

[Detailed Guide: Penile Cancer](#) From the American Cancer Society.

[Testicular Cancer Home Page](#) From the National Cancer Institute.

[Infertility in Men](#) Patient level information from the [UpToDate Patient Information site](#).

[Making Babies](#) Companion web site of the PBS *Frontline* episode on assisted reproduction. Includes interviews, videos and the issues surrounding cloning.

[U.S. Preventive Services Task Force - USPSTF](#) Site provides online guidelines and recommendations, including [Screening for Cervical Cancer](#), released January 2003; [Screening for Ovarian Cancer](#), released May 2004; and [Genetic Risk Assessment and BRCA Mutation Testing for Breast and Ovarian Cancer Susceptibility](#), released September 2005.

Journals

[American Journal of Obstetrics and Gynecology](#) Full-text articles are available to personal subscribers starting from 1994 through the present. Access to abstracts is complimentary. Selected items are open-access.

[AWHONN Lifelines](#) Abstracts and tables of contents are available online; full text access requires a subscription.

[Best Practice & Research: Clinical Obstetrics & Gynaecology](#) Full-text articles are available from 1999 to the present. Access to abstracts is complimentary. Access to full-text is limited to print subscribers.

[Contemporary ObGyn](#) Open-access; includes continuing education resources.

[Evidence-based Obstetrics & Gynecology](#) Full-text articles are available from 1999 to the present. Access to abstracts is complimentary. Access to full-text is limited to print subscribers.

[Journal of Midwifery & Women's Health](#) Full-text articles are available to ACNM members and personal subscribers starting from 1998 to the present. Access to tables of contents and abstracts is complimentary.

[Journal of Reproductive Medicine](#) Online tables of contents, abstracts, and selected items are available online.

[Journal of the Society for Gynecologic Investigation](#) Official publication of the Society for Gynecologic Investigation (SGI). Full-text articles are available from 1997 to the present. Access to abstracts is complimentary. Access to full text is limited to print subscribers.

[OB/Gyn News](#) Full-text articles are available to subscribers starting from 2001 to the present. Access to tables of contents is complimentary.

[Patient Care for the Nurse Practitioner](#)[®] Access to online articles requires registration, which is free.

[Reproductive Health Matters](#) Full-text articles are available from 2002 to the present. Access to abstracts is complimentary. Access to full-text is limited to print subscribers.

Agencies and Organizations

[American Cancer Society](#) Includes a section on [Statistics](#).

[American College of Obstetricians and Gynecologists](#)

[American Society for Reproductive Medicine](#)

[American Society of Andrology](#) (male reproductive biology and medicine)

[American Urogynecologic Society](#)

[Association of Women's Health, Obstetric, & Neonatal Nurses-AWHONN](#)

[Cancer Hope Network](#) "a not-for-profit organization that provides free and confidential one-on-one support to cancer patients and their families. We provide that support by matching cancer patients and/or family members with trained volunteers who have themselves undergone and recovered from a similar cancer experience."

[Center for Male Reproductive Medicine and Microsurgery](#) Cornell University.

[CDC's Reproductive Health Information Source](#)

[Hysterectomy Educational Resources and Services-HERS Foundation](#)

[Infertility Awareness Association of Canada, Inc.](#)

[International Society for Gynecologic Endoscopy](#)

[Jacobs Institute of Women's Health](#)

[National Association of Nurse Practitioners in Women's Health](#) (formerly the National Association of Nurse Practitioners in Reproductive Health)

[National Breast and Cervical Cancer Early Detection Program](#) From the Centers for Disease Control and Promotion; an extensive site, with many full-text items.

[National Prostate Cancer Coalition](#)

[National Women's Health Information Center](#)

[North American Menopause Society](#)

[Royal Australian and New Zealand College of Obstetricians and Gynaecologists](#)

[Royal College of Obstetricians and Gynaecologists](#) UK

[Sexuality Information and Education Council of the U.S.](#) An extensive site that includes information on sexuality and individuals with health problems or disabilities.

[Society of Gynecologic Nurse Oncologists](#)

[Society of Gynecologic Oncologists](#)

[Society of Gynecologic Surgeons](#)

[Society of Reproductive Surgeons](#)

[Society of Urologic Nurses and Associates](#)

Diseases of the Breast

[Breast Cancer](#) A collection of links to web resources from Medline Plus. Includes links to audiovisual tutorials from the National Library of Medicine.

[Breast Health Directory](#) From the [Olson Center for Women's Health](#) at the University of Nebraska Medical Center.

[The Evaluation of Common Breast Problems](#) By Monica Morrow, MD, Northwestern University Medical School, Chicago, Illinois; an online article from *American Family Physician*, April 15, 2000; includes protocol flow charts.

[Paget's Disease of the Nipple: Questions and Answers](#) From the National Cancer Institute.

[Understanding Breast Cancer Treatment: A Guide for Patients](#) Materials from the National Cancer Institute.

[What You Need to Know About Breast Cancer](#) From the CancerNet information resource, [National Cancer Institute](#); includes a section on anatomy.

Agencies and Organizations

[American Cancer Society](#)

[American Society of Breast Disease](#)

[American Society of Breast Surgeons](#)

[Avon Breast Cancer Crusade](#)

[Breast Cancer Society of Canada](#)

[Linda Creed Breast Cancer Foundation](#)

[Living Beyond Breast Cancer](#) Support organization.

[National Breast and Cervical Cancer Early Detection Program](#) From the Centers for Disease Control and Promotion; an extensive site, with many full-text items.

[National Breast Cancer Coalition](#)

[Society of Breast Imaging](#)

[Y-ME National Breast Cancer Organization](#)

24: Sexually Transmitted Infections

[The Hidden Epidemic: Confronting Sexually Transmitted Diseases](#) (1997)

A full text online book from the National Academy Press.

[Sexually Transmitted Diseases](#) A directory of web resources from Medline Plus, from the National Library of Medicine.

[Sexually Transmitted Infections](#) From the National Institute of Allergy and Infectious Diseases; overview and links to extensive number of fact sheets on specific diseases.

[Surgeon General's Call to Action to Promote Sexual Health and Responsible Sexual Behavior](#) June 2001.

[2006 Guidelines for Treatment of Sexually Transmitted Disease](#) Centers for Disease Control and Prevention.

[Chlamydial urethritis - male](#) and [Chlamydia](#) Illustrations and information from the Medical Encyclopedia, Medline Plus.

[Gonorrhea - female](#) and [Gonorrhea - male](#) Illustrations and information from the Medical Encyclopedia, Medline Plus.

[Herpes genital \(genital Herpes simplex\)](#) Illustrations and information from the Medical Encyclopedia, Medline Plus.

[Genital Warts \(Condylomata Acuminata\)](#) Illustrations and information from the Medical Encyclopedia, Medline Plus.

[STD Surveillance 2005](#) From the Centers for Disease Control and Prevention.

[Syphilis](#) Illustrations and information from the Medical Encyclopedia, Medline Plus. Article includes links to additional information on Syphilis; primary, Syphilis; secondary, and Syphilis; tertiary.

[Chancroid](#) Illustrations and information from the Medical Encyclopedia, Medline Plus.

[Viral Hepatitis](#) Epidemiology and Prevention of Viral Hepatitis A to E: An Overview. PowerPoint and Adobe Acrobat files available for downloading from the Centers for Disease Control and Prevention.

Journals

[MMWR: Morbidity & Mortality Weekly Report](#) Available full text online, requires [Adobe Acrobat Reader](#).

[MMWR: Morbidity and Mortality Weekly Report -- CDC Surveillance Summaries](#) Available full text online, requires [Adobe Acrobat Reader](#).

Agencies and Organizations

[American Social Health Association](#)

[American Urogynecologic Society](#)
[Association for Professionals in Infection Control and Epidemiology-APIC](#)
[CDC: Centers for Disease Control and Prevention](#)
[CDC Division of STD Prevention](#) Centers for Disease Control and Prevention; includes fact sheets, statistics and epidemiology information.
[National Center for HIV, STD, and TB Prevention](#)
[National Institute of Allergy and Infectious Diseases](#)
[National Women's Health Information Center](#)
[Society of Urologic Nurses and Associates](#)
[U.S. Food and Drug Administration-FDA](#)

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

Consider using the following MeSH (**M**edical **S**ubject **H**eading) terms when doing searches on some of the topics in the above chapters:

Gynecologic Surgical Procedures	Postmenopause
Genitalia, Female	Premenopause
Cervix Uteri	Fetal Development
Uterus	Menstrual Cycle
Endometrium	Menstruation
Adnexa Uteri	Dilatation and Curretage
Fallopian Tubes	Ovulation
Ovary	Puerperium
Vagina	Orgasm
Vulva	Coitus
Contraceptive Agents, Female	Sex
Reproduction	Sex Behavior
Climacteric	Fertility Agents, Female
Menopause	Contraception
Menopause, Premature	

or specific disease headings such as (this is not a comprehensive list, sample only):

Genital Diseases, Female	Sex Disorders
Adnexitis	Dyspareunia
Endometriosis	Endometritis
Ovarian Neoplasms	Premenstrual Syndrome
Uterine Neoplasms	Candidiasis, Vulvovaginal
Herpes Genitalis	Vaginal Discharge
Menstruation Disorders	Vaginitis
Amenorrhea	Vulvitis
Urologic Surgical Procedures, Male	Penile Diseases
Prostate	Prostatic Diseases
Scrotum	Spermatocele

Seminal Vesicles
Ejaculatory Ducts
Spermatic Cord
Bulbourethral Glands
Testis
Vas Deferens
Genitalia, Male
Genital Diseases, Male

Sex Disorders
Testicular Diseases
Orgasm
Coitus
Sex
Sex Behavior
Penile Erection
Epididymitis

Click here for a very focused MEDLINE search on [hormone replacement therapy](#). This search is limited to articles in English.

Hematologic System

25. [Structure and Function of the Hematologic System](#)
26. [Alterations of Erythrocyte Function](#)
27. [Alterations of Leukocyte, Lymphoid, and Hemostatic Function](#)
28. [Alterations of Hematologic Function in Children](#)

25: Structure and Function of the Hematologic System

[American Society of Hematology Image Bank](#) Extensive online resource covering normal cells and diseases.

[Blood](#) From the [Center for Biologics Evaluation and Research](#), FDA; provides information on blood safety and products and research in these areas.

[Blood and Bone Marrow](#) From JayDoc HistoWeb; Copyright University of Kansas Medical Center; illustrations and text.

[Blood-Chemistry Tutorials](#) Online tutorials from the Chemistry Department, Washington University, St. Louis; includes Hemoglobin and the Heme Group: Metal Complexes in the Blood for Oxygen Transport; Iron Use and Storage in the Body: Ferritin and Molecular Representations; Maintaining the Body's Chemistry: Dialysis in the Kidneys; and Blood, Sweat, and Buffers: pH Regulation During Exercise.

[CELLS alive!](#) Includes animations and video clips, including one on [Cytotoxic T Cell](#).

[The Lymphatic System](#) By SIGBIO, University of Illinois - Urbana-Champaign; SIGBIO is the UIUC chapter of the Association of Computing Machinery; detailed drawings and explanatory text; includes sections on:

- [Thoracic Duct](#)
- [Lymph Nodes \(overview\)](#)
- [Bone Marrow](#)
- [Thymus](#)
- [Spleen](#)
- [Closer looks - Lymph Nodes](#)
- [White Blood Cells](#)

[NIH Stem Cell Information](#)

[Normal Peripheral Blood](#) Images from the New York State Department of Health, Wadsworth Center, Clinical Chemistry and Hematology.

[The Polymerase Chain Reaction](#) By Tabitha M. Powledge, from [Breakthroughs in Bioscience](#), a series from the [Federation of American Societies for Experimental Biology](#).

[Understanding Your Complete Blood Count](#) Patient Information handout from the Warren Grant Magnuson Clinical Center, National Institutes of Health. Also available in [Spanish](#).

[WebCoag: Decision Support System for Coagulopathy](#) By Andy Nguyen, MD, University of Texas-Medical School at Houston, Pathology Department.

26: Alterations of Erythrocyte Function

[Agranulocytosis](#) Illustration and information from the Medical Encyclopedia, Medline Plus.

[Agranulocytosis](#) Online article by Ariel Distenfeld, MD , from eMedicine.

[Ambulatory Management of Common Forms of Anemia](#) By David R. Little, MD, MS, *American Family Physician*, March 15, 1999.

[BloodLine](#) "The online resource for hematology education and news"; a meta-site covering research and clinical resources.

[Diseases of Iron Metabolism](#) A tutorial from Internet Pathology Laboratory.

[Idiopathic aplastic anemia](#) Illustrated overview from the Medical Encyclopedia, Medline Plus.

[Pernicious anemia](#), [Megaloblastic anemia](#), and [Schilling test](#) Overviews from the Medical Encyclopedia, Medline Plus.

27: Alterations of Leukocyte, Lymphoid, and Hemostatic Function

The [National Cancer Institute](#) has many full text documents, and online [Cancer Literature](#) resources. This site includes a dictionary, information on

treatment options for specific types of cancer, resources and literature, and a [bibliographic database](#). Some materials are available in English and Spanish.

[Hodgkin's Lymphoma](#) and [Non-Hodgkin's Lymphoma](#) Illustrated information from the Medical Encyclopedia, Medline Plus.

[Leukemia](#) Links to resources from ACOR, the Association of Online Cancer Resources.

[Leukemia](#) An authoritative and extensive site about the several forms of leukemia; from the [National Cancer Institute](#).

[Virtual Textbook of Extracorporeal Technology](#) A site being developed on the model of the Virtual Textbook of Anesthesiology.

Agencies and Organizations

[American Association of Blood Banks](#)

[American Cancer Society](#)

[American Hemochromatosis Society, Inc.](#)

[American Society of Hematology](#) This is an extensive site with many materials on specific disorders.

[Aplastic Anemia & MDS \(Myelodysplastic Syndromes\) International Foundation Inc.](#)

[International Myeloma Foundation](#)

[Leukemia & Lymphoma Society](#)

[National Heart Lung and Blood Institute](#)

28: Alterations of Hematologic Function in Children

[Blood](#) A Web video about the treatment experiences of a young man with Common Variable Immunodeficiency; from Video Nation, UK.

[Graft Vs. Host Disease \(GVHD\)](#) Information from the [Pediatric Bone Marrow Transplant Program](#), University of California San Francisco.

[Hemophilia Galaxy](#) A site for the family; includes links to support services.

[Iron Deficiency Anemia: Recommended Guidelines for the Prevention, Detection, and Management Among U.S. Children and Women of Childbearing Age](#) Robert Earl and Catherine E. Woteki, Editors; Committee on the Prevention, Detection, and Management of Iron Deficiency Anemia Among U.S. Children and Women of Childbearing Age, Institute of Medicine, 140 pages, 1994; available full-text online from the National Academies Press.

[Leukemia Risk Factors](#) By Martha S. Linet, MD, MPH, from the National Cancer Institute.

[OMIM™ - Online Mendelian Inheritance in Man](#) A database for inherited diseases; can be searched for congenital immunodeficiency diseases.

[Polycythemia vera](#) Illustrations and information from the Medical Encyclopedia, Medline Plus.

[Screening for Hemoglobinopathies](#) From the *Guide to Clinical Preventive Services*, 2nd edition, 1996, Report of the U.S. Preventive Services Task Force.

[Sickle Cell Anemia](#) Images from the New York State Department of Health Wadsworth Center, Clinical Chemistry and Hematology.

Journals

[Journal of Pediatric Health Care](#) Full-text articles are available to NAPNAP members and personal subscribers starting from 2000 to the present; Abstracts, References, and PDFs are available from 1996 to the present. Access to tables of contents and abstracts is complimentary.

[Pediatric Pharmacotherapy](#) "A Monthly Review for Health Care Professionals" from the Children's Medical Center, University of Virginia.

Agencies and Organizations

[American Society of Pediatric Hematology/Oncology](#)

[Baylor International Pediatric AIDS Initiative](#) Extensive web site that includes the online [HIV Curriculum for the Health Professional](#), 2nd edition.

[Canadian Hemophilia Society/Société Canadienne de l'hémophilie](#)

[Cooley's Anemia Foundation Inc.](#)

[International Association of Sickle Cell Nurses and Physician Assistants - IASCNAPA](#)

[Joint Center for Sickle Cell and Thalassemic Disorders](#) From the Brigham and Women's Hospital and the Massachusetts General Hospital

[Leukemia & Lymphoma Society](#)

[National Cancer Institute](#)

[National Heart, Lung, and Blood Institute](#)

[National Hemophilia Foundation](#) Includes a [Bleeding Disorders: Glossary](#)

[Pediatric Bone Marrow Transplant Program](#), University of California San Francisco.

[Pediatric Oncology Branch, National Cancer Institute](#)

[Sickle Cell Disease Association of America](#)

[World Federation of Hemophilia](#)

Related MEDLINE Tips

[Click here to search MEDLINE](#) via the National Library of Medicine's PubMed system.

[Consider using the following MeSH \(Medical Subject Heading\) terms when doing](#)

[searches on some of the topics in the above chapters:](#)

<u>Hematology</u>	<u>Leukocyte Disorders</u>
<u>Hemic and Lymphatic Diseases</u>	<u>Eosinophilia</u>
<u>Hematologic Diseases</u>	<u>Methemoglobinemia</u>
<u>Anemia (and different types of anemia)</u>	<u>Pancytopenia</u>
<u>Blood Group Incompatibility</u>	<u>Pregnancy Complications, Hematologic</u>
<u>Rh Isoimmunization</u>	<u>Preleukemia</u>
<u>Blood Protein Disorders (and specific types of protein disorders)</u>	<u>Plasma</u>
<u>Bone Marrow Diseases (and specific bone marrow diseases)</u>	<u>Erythrocytes</u>
<u>Hematologic Neoplasms</u>	<u>Hemocytes</u>
<u>Hemoglobinopathies</u>	<u>Leukocytes</u>
<u>Blood Coagulation Disorders</u>	<u>Blood</u>
<u>Blood Platelet Disorders</u>	<u>Blood Cells</u>
<u>Purpura</u>	<u>Fetal Blood</u>

[Click here for a quick and very focused MEDLINE search on management of thrombophlebitis.](#) This sample search is performed on the National Library of Medicine's PubMed MEDLINE interface. It is limited to articles in English.

Cardiovascular System

29. [Structure and Function of the Cardiovascular and Lymphatic Systems](#)
30. [Alterations of Cardiovascular Function](#)
31. [Alterations of Cardiovascular Function in Children](#)

29: Structure and Function of the Cardiovascular and Lymphatic Systems

[Arteries](#) An interactive learning program with schematic diagrams of location of major arteries; from Lumen, Loyola University.

[Atherosclerosis and Thrombosis Index](#) Histologic illustrations and explanatory text from the Internet Pathology Laboratory.

[The Auscultation Assistant](#) By Christopher Cable, MD, UCLA School of Medicine; this site requires considerable disk cache space.

[Cardiac MRI Anatomical Atlas: An Introduction to Cardiac Anatomy](#) By Steven Thrupp MA, Warren Hedley ME, Dr Christopher Occleshaw MRCP(UK) FRCR, Andrew Cantell BE, Dr Brett Cowan BE, MBChB, Dr Alistair Young PhD; on the server of the Society for Cardiovascular Magnetic Resonance - SCMR.

[ECG Learning Center in Cyberspace](#) An extensive site on ECG's from the University of Utah School of Medicine.

[Electrocardiogram](#) A page from the Nobel Prize web site. Includes an interactive online program "Play the Electrocardiogram Game." Also includes sections on [The Electrocardiogram – looking at the heart of electricity](#) and [The Nobel Prize in Physiology or Medicine 1924 for Willem Einthoven "for his discovery of the mechanism of the electrocardiogram"](#).

[A Glossary of Cardiovascular Terms](#) From NetPharmacology, University of Utah.

[The Healthy Heart](#) "a multimedia excerpt from the e-seminar Introduction to Cardiac Care that uses medical illustrations, audio, Flash animation, and authentic diagnostic imagery to illustrate how the healthy heart functions—how it circulates blood throughout the body while maintaining its own health." From "[Columbia Interactive](#), a gateway to selected electronic learning resources developed at Columbia University." Click on the image to begin. Includes sections on anatomy, physiology and diagnostic views.

[The Heart: An Online Exploration](#) Patient education level materials.

[The Heart Lessons](#) Basic learning activities from Science Museum of Minnesota.

[Heart Preview Gallery](#) A consumer level site, from the Franklin Institute, Philadelphia; uses video and other technologies; requires Quicktime plug-in.

[Heart Sounds and Murmurs](#) Includes audio and video files; from [Introduction: Examination for Heart Sounds and Murmurs](#), [Advanced Physical Diagnosis Skills for the Bedside](#) By Linda E. Pinsky, MD, and Linda E. Pinsky, MD, Department of Medicine, University of Washington, Seattle.

[Height for weight chart U.S.](#) Scroll down to view this chart from the Weight Control Information Network, National Institute of Diabetes and Digestive and Kidney Diseases - NIDDK.

[The History of Blood Pressure Monitoring](#) From the HealthPerfect commercial site, UK.

[Insulin Resistance, Coronary Heart Disease and Diet](#) An article by Gerald M. Reaven, MD, San Francisco.

[Introduction to Cardiothoracic Imaging](#) Extensive online illustrated tutorial from the Yale Center for Advanced Instructional Media.

[Introduction to Cardiovascular Pharmacology](#) Lecture Notes from NetPharmacology, University of Utah; topics covered include: The Autonomic Nervous System; The Heart: Cardiac Anatomy, The Cardiac Cycle, Factors Influencing Cardiac Performance, Factors Affecting Pumping Efficiency, and Factors Affecting Myocardial Oxygen Consumption; The Vasculature: The Circulatory System, Vessels Controlling Blood Pressure; Regulation of Blood Pressure: Short-Term Regulation, Long-Term Regulation; Cardiovascular Diseases; Useful Equations; and a Glossary; Donald K. Blumenthal, Ph.D., site coordinator.

[Latino Cardiovascular Health Resources](#) From the NHLBI.

[Vascular System](#) From JayDoc HistoWeb; Copyright University of Kansas Medical Center; illustrations and text.

[The Lymphatic System](#) From SIGBIO, University of Illinois - Urbana-Champaign. SIGBIO is the UIUC chapter of the Association of Computing Machinery. Detailed drawings and explanatory text; includes sections on:

- [Thoracic duct](#)
- [Lymph nodes \(overview\)](#)
- [Bone marrow](#)
- [Thymus](#)
- [Spleen](#)
- [Lymph nodes: A closer look.](#)

[Lymphatic System and Immunity](#) From the [On-Line Biology Book](#) by M.J. Farabee, Maricopa Community College. All contents copyrighted ©; all rights reserved. "Use for educational purposes is heartily encouraged!" Includes The Lymphatic System; Immunity; General Defenses; Specific Defenses; Antibody-Mediated Immunity; Blood Types, Rh, and Antibodies; Organ Transplants and Antibodies; Allergies and Disorders of the Immune System; and Web links.

[Screening Physical Exam](#) Select the section on **Vascular**; by Arcot J. Chandrasekhar, MD, FRCP, FACP, FCCP, Loyola University.

[Therapeutic Lifestyle Changes](#) From the [The National Heart, Lung, and Blood Institute \(NHLBI\)](#); includes The Virtual Grocery Store, Cyber Kitchen, Cyber Cafe, TLC Diet and more.

[The Virtual Body](#) Copyright HCA 1999-2005; from [MEDtropolis](#); includes an animated section on the Heart; available in English and Spanish.

[The Visible Heart](#) Extraordinary collection of video clips and images of the heart from Medtronic Inc.

Agencies and Organizations

[American College of Cardiology](#) An extensive site with many useful items, including expert consensus documents.

[American Heart Association](#)

[National Heart, Lung, and Blood Institute - NHLBI](#)

30: Alterations of Cardiovascular Function

[AACN Continuing Education articles](#) From the [American Association of Critical-Care Nurses](#); several of these online articles are related to cardiac/cardiovascular interventions or problems.

[ABC of hypertension Blood pressure measurement Part I](#); [ABC of hypertension Blood pressure measurement Part II](#); [ABC of hypertension Blood pressure measurement Part III](#); [ABC of hypertension Blood pressure measurement Part IV](#) A series of articles from *BMJ*, the British Medical Journal, 2001. Well illustrated; adapted by the book of the same name.

[ABC of hypertension: The pathophysiology of hypertension](#) Online article from *BMJ*, April 14, 2001;322:912-916.

[ACC/AHA Guidelines for the Evaluation and Management of Chronic Heart Failure in the Adult](#) Full text online; requires [Adobe Acrobat Reader](#) to view and print.

[ACC/AHA Guidelines for Percutaneous Coronary Intervention](#) From the American College of Cardiology web site.

[ACLS.Net](#) Includes online practice algorithms, mnemonics, and online self-test quizzes.

[ACLS Megacode Simulator](#) An interactive advanced cardiac life support review; not intended for patient care use. Copyright MDChoice.com, all rights reserved.

[American Heart Association Heart and Stroke Statistical Update](#)

[Angina](#) An interactive online tutorial from the National Library of Medicine.

[Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial](#) Online materials from the National Heart, Lung, and Blood Institute.

[Atherosclerosis and Thrombosis Index](#) Histologic illustrations and explanatory text from the Internet Pathology Laboratory.

[Cardiosource.com](#) A collaborative effort from the American College of Cardiology Foundation and Elsevier Science. Includes practice guidelines, clinical trials, patient handouts, and much more. Full access to some items requires subscription.

[Cardiovascular Disease from Nurse CEU.com](#) An extensive collection of courses related to cardiovascular diseases, offered free online.

[Cardiovascular Pathology](#) From the Internet Pathology Laboratory; includes illustrations of normal heart.

[Cardiovascular Pathology](#) Volume 2: The Urbana Atlas of Pathology, University of Illinois College of Medicine at Urbana-Champaign.

[The Changing Face of Heart Disease and Stroke in Canada](#) From Health Canada.

[Cholesterol Lowering in the Patient With Coronary Heart Disease: Physician Monograph](#) From the National Heart, Lung and Blood Institute.

[Clinical Values](#) From Frontiers in Bioscience; includes ideal weights and heights, nomograms, and more.

[Coronary Angiogram and Angioplasty](#) An audiovisual online tutorial from the National Library of Medicine.

[Cut to the Heart](#) A NOVA presentation produced for PBS by the WGBH Science Unit; on heart surgery. Includes an animated explanation on blood flow in the heart.

[DASH Diet & Cookbook](#) web site from the Oregon Dairy Council.

[Diagnosing syncope](#) Part 1: Value of History, Physical Examination, and Electrocardiography; Clinical Guideline. In *Annals of Internal Medicine* June 15, 1997; contains a link to Part 2.

[Diagnosis and Management of Infective Endocarditis and Its Complications](#) From the American Heart Association, © 1998.

[Diet!](#) Consumer level information from [Heart Failure Online](#).

[Drugs of Choice in the Treatment of Hypertension, Part 1](#) and [Part 2](#) Extensive online articles from the [Therapeutics Initiative](#), University of British Columbia. Includes information on comparative costs.

[Fluid Resuscitation: State of the Science for Treating Combat Casualties and Civilian Injuries](#) By the Committee on Fluid Resuscitation for Combat Casualties, Institute of Medicine; 208 pages, 1999. Full-text online from the National Academy Press.

[From Theory to Practice: Preventing Pain After Cardiac Surgery](#) By Jocelyn Reimer-Kent ; open access CE article from *American Journal of Critical Care*, March 2003.

[Guidelines 2000 for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care](#) *Circulation* 2000, Aug 22;102(8 Suppl): I-1-I-384. Access requires subscription or purchase.

[Heartinfo.org](#) An extensive site with materials available in both English and Spanish.

[Heart Attack](#) An interactive online tutorial from the National Library of Medicine.

[High Blood Pressure Information Slide Shows](#) Available for viewing or downloading. Includes the *The Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (JNC 7)*; from the National Heart Lung and Blood Institute.

[Heart Disease in the Elderly](#) By Dr. W. Chiu "as presented at Cardiology Rounds at the MUCH/MGH, December 1999"; a streaming video presentation and accompanying quiz.

[Introduction to Cardiovascular Pharmacology](#) Lecture Notes from NetPharmacology, University of Utah; topics covered include: The Autonomic Nervous System; The Heart: Cardiac Anatomy, The Cardiac Cycle, Factors Influencing Cardiac Performance, Factors Affecting Pumping Efficiency, and Factors Affecting Myocardial Oxygen Consumption; The Vasculature: The Circulatory System, Vessels Controlling Blood Pressure; Regulation of Blood Pressure: Short-Term Regulation, Long-Term Regulation; Cardiovascular Diseases; Useful Equations; and a Glossary; Donald K. Blumenthal, Ph.D., site coordinator.

[Lipids Online](#) Features a Slide Library, a Virtual Meeting Forum, and Commentaries on Research.

[Live Healthier, Live Longer: Updated on new ATP III Guidelines: Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults \(Adult Treatment Panel III\), National Cholesterol Education Program.](#) There is also an [ATP III At-A-Glance: Quick Desk Reference](#) and a 2004 update [Implications of Recent Clinical Trials for the National Cholesterol Education Program Adult Treatment Panel III Guidelines](#).

[Managing Heart Failure: A Case Study Approach](#) Online continuing education article by Mary MacKlin, from the [American Association of Critical-Care Nurses](#).

[National High Blood Pressure Education Program - NHBPEP](#) Contains online slide sets and other resources; from the National Heart, Lung, and Blood Institute - NHLBI.

[National High Blood Pressure Education Program](#) Includes [Facts About The DASH Eating Plan](#).

[New Directions in Lipid Management: Focus on the ATP III Guidelines](#) By Benjamin J. Ansell, MD, FACP, Assistant Professor, University of California -Los Angeles School of Medicine, Division of General Internal Medicine, and Director, UCLA Center for Primary Care-Based Cardiovascular Disease Prevention, Los Angeles, CA; and Carol M. Mason, RN, CS, GNP. An online audio-visual course carrying continuing education credit [for a fee] for nurses. Produced in cooperation with the American Academy of Nurse Practitioners.

[Orthostatic Measurement](#) Research Applied to Clinical Practice, by Robert C. Knies, RN, MSN, CEN.

[The Pathogenesis of Atherosclerosis](#) An online course [a fee is required for credit] by Margaret Banning BSc (Hons) MSc PGDE SRN SCM, State University of New York at Stony Brook.

[Pericarditis](#), [Bacterial Pericarditis](#), and [Pericarditis - after heart attack](#) Overviews from the Medical Encyclopedia, Medline Plus.

[Postobstructive Pulmonary Edema](#) An online article from *American Family Physician*, July 15, 2000.

[Practice Parameters for Hemodynamic Support of Sepsis in Adult Patients](#) Guideline from the Society of Critical Care Medicine.

[Pulmonary Artery Catheter Education Project \(PACEP\)](#) Online education course that is a joint project of several cardiac related organizations, including the American Association of Critical Care Nurses; registration is required but is free. Continuing education credit requires payment of a fee.

[Selecting a Sphygmomanometer or Blood Pressure Monitor](#) A site that includes basic information, links to vendors, and links to articles with MEDLINE abstracts.

[The Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure \(JNC 7\)](#) Includes links to supporting resources and Quick Reference Card.

[State-of-the-Art Diagnostic Testing in Women: A Research Update](#) A 29 page online report from the [NHLBI Workshop on Women and Ischemia Syndrome Evaluation \(WISE\): Diagnosis and Pathophysiology of Ischemic Heart Disease](#), October 2-4, 2002, Marriott Inn, Baltimore Washington International Airport.

[Sudden Arrhythmia Death Syndrome: Importance of the Long QT Syndrome](#) Online article from *American Family Physician*, August 1, 2003.

[12-lead ECG Library](#) By © Copyright Dean Jenkins and Stephen Gerred.

[The Visible Heart](#) Extraordinary collection of video clips and images of the heart from Medtronic Inc.

[The Yale University School of Medicine Heart Book](#) An ongoing experimental project to produce an online textbook; contains a section on interventional cardiology.

Journals

[American Heart Journal](#) Full-text articles and abstracts are available to personal subscribers starting from 1997 to the present; access to abstracts is complimentary.

[The Canadian Journal of Cardiology](#) Abstracts and contents are online; access to full-text articles requires membership.

[Cardiovascular Research](#) Tables of contents and abstracts are available online. Full access is available to subscribers through Science Direct.

[CHEST: Cardiopulmonary & Critical Care Journal](#) Tables of contents and abstracts are available online; full access is available by subscription.

[Circulation](#) Tables of contents and abstracts are available online; full access is available by subscription. Open access to all articles after 12 months. Includes many professionals statements from the American Heart Association.

[Clinical Cardiology](#) Some items available full-text.

[Current Problems in Cardiology](#) Full-text articles are available to personal subscribers starting from 2000 to the present; abstracts, references and PDFs are available from 1996. Access to tables of contents and abstracts is complimentary.

[E-chocardiography](#) Edited by Daniel Shindler, MD, University of Medicine and Dentistry of New Jersey; includes many echocardiographic images indexed by disease/disorder.

[European Heart Journal](#) Official journal of the [European Society of Cardiology](#). Tables of contents and abstracts are available online; full access is available by subscription.

[European Journal of Cardiovascular Nursing](#) An international journal of the European Society of Cardiology. Tables of contents and abstracts are available online. Access to full-text articles requires subscription.

[European Journal of Echocardiography](#) The the official journal of the European Society of Cardiology Working Group on Echocardiography. Journal contents pages and abstracts are available online; full access is available by subscription.

[Evidence-based Cardiovascular Medicine](#) Full-text articles are available from 1999 to the present. Access to abstracts is complimentary. Access to full-text is limited to print subscribers.

[Heart & Lung: the Journal of Acute and Critical Care](#) Full-text articles are available to personal subscribers starting from September 1998 to the present; abstracts, references, and PDFs are available from 1997 to the present. Access to abstracts is complimentary.

[Heart Rhythm](#) Published by Elsevier for the [Heart Rhythm Society](#). The journal "provides rapid online and print publication of the most important basic and clinical scientific developments devoted to arrhythmias, devices, and cardiovascular electrophysiology. In addition, the Journal publishes scholarly reviews, editorials, unique case reports, letters to the editor, HRS annual plenary lecture, and several feature sections. These include: Creative Concepts, Featured Arrhythmias, Pacemaker/ICD Problems, Images: Cell to Bedside and videos viewable on the Internet, Viewpoints, and EP News." Registered users may purchase individual and society

member subscriptions and individual articles online for immediate online access.

[*The Heart Surgery Forum™*](#) "A cardiothoracic multimedia journal"; official publication of the International Society for Minimally Invasive Cardiac Surgery; some items require QuickTime 4 or later, others Adobe Acrobat Reader; includes audio and video materials.

[*Journal of Cardiac Failure*](#) Official Journal of the [Heart Failure Society of America](#) and the Japanese Heart Failure Society. Full-text articles are available to HFSA and JHFS members and personal subscribers starting from June 2000 to the present; abstracts, references, and PDFs are available from 1997 to the present. Access to tables of contents and abstracts is complimentary.

[*Journal of Cardiovascular Nursing*](#) Tables of contents and brief article summaries are available from 1998 forward. Access to full-text is available by subscription or pay-per-item.

[*Journal of Electrocardiology*](#) Official Journal of the [International Society for Computerized Electrocardiology](#) and the International Society of Electrocardiology. Full-text articles are available to ISCE and ISE members and personal subscribers starting from April 2003 to the present; abstracts and PDFs are available from 2002, and abstracts and references are available from 2001. Abstracts, References, and PDFs are available from 1996 to 1999. Access to tables of contents and abstracts is complimentary.

[*Journal of Nuclear Cardiology*](#) official journal of the [American Society of Nuclear Cardiology](#). Full-text articles are available to ASNC members and personal subscribers starting from 2000 to the present; abstracts, references, and PDFs are available from 1996 to the present. Access to tables of contents and abstracts is complimentary.

[*Journal of the American Society of Echocardiography*](#) Full-text articles and abstracts are available to ASE members and personal subscribers starting from 1997 to the present; abstracts, references, and PDFs are available from 1996. Access to abstracts is complimentary.

[*Journal of Vascular Nursing*](#) Official publication of the Society for Vascular Nursing. Full-text articles are available to SVN members and personal subscribers starting from 2001 to the present; abstracts, references and PDFs are available from 1997 to the present. Access to tables of contents and abstracts is complimentary.

[*Online Journal of Cardiology*](#) Editor in Chief Dr. M. D. Rosengarten; "broadcast from Canada, with the support of McGill University."

[*Progress in Cardiovascular Diseases*](#) Full-text articles are available to personal subscribers starting from 1999 to the present; Abstracts, References, and PDFs are available from 1995-1998. Access to abstracts is complimentary. Access to full text is limited to print subscribers.

Agencies and Organizations

[Adult Congenital Heart Association](#)

[Adults with Congenital Heart Conditions Support Group of New Zealand](#)

[American Association of Critical-Care Nurses](#)

[American College of Cardiology](#) An extensive site with many useful items, including expert consensus documents.

[American College of Cardiovascular Nursing](#)

[American Heart Association](#)

[American Society of Echocardiography](#)

[American Society of Nuclear Cardiology](#)

[British Society of Interventional Radiology](#)

[Canadian Association of Critical Care Nurses](#)

[Canadian Cardiovascular Society](#)

[Cardiovascular and Interventional Radiological Society of Europe](#)

[Cardiovascular and Interventional Radiology Research and Education Foundation](#)

[Centre for Chronic Disease Prevention and Control: Cardiovascular Disease](#) Canada

[Council on Cardiopulmonary and Critical Care](#) of the American Heart Association

[Council on Cardiovascular Nursing](#) of the American Heart Association

[European Society of Cardiology](#)

[Grown Up Congenital Heart Patients Association](#) UK

[Heart and Stroke Foundation of Canada](#)

[Heart Failure Society of America](#)

[The Hypertrophic Cardiomyopathy Association](#)

[International Society for Computerized Electrocardiology](#)

[International Society for Minimally Invasive Cardiac Surgery](#)

[International Task Force for the Prevention of Coronary Heart Disease](#)

[National Board of Echocardiography](#)

[National Heart, Lung, and Blood Institute - NHLBI](#)

[The National Marfan Foundation](#)

[National Registry of CardioPulmonary Resuscitation](#)

[North American Society for Cardiac Imaging](#)

[Society for Cardiovascular Angiography and Interventions](#)

[Society for Cardiovascular Magnetic Resonance](#)

[Society of Interventional Radiology](#)

[The Sudden Arrhythmia Death Syndromes \(SADS\) Foundation](#) There is also an Australian site [SADS Australia](#).

[University of Arizona Center for Education and Research on Therapeutics](#) Special emphasis is "on drug-induced arrhythmias, especially those due to prolongation of the QT interval on the electrocardiogram (ECG)."

[World Heart Federation](#)

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[Congenital Heart Information Network](#) Information and resources for families and professionals.

[Fetal Echocardiography Homepage](#) Copyright 1995-2005 by Krzysztof P. Wroblewski, University of Pennsylvania; includes an image library.

[Heart Diseases in Children Information Center](#) A web site housed at The University of Chicago and supervised by Ra-id Abdulla, MD. Contains illustrated resources on embryology, physiology, diagnostic methods, and specific disorders for patients, families, and professionals. Includes online animations and sound files of heart murmurs.

[Hypoplastic Left Heart Syndrome Web Site](#) A new site still under construction developed by a "group of cardiologist, surgeons, nurses, and other practitioners", interested in this disorder.

[Paediapedia: Cardiovascular Disease Index](#) By Michael P. D'Alessandro, MD, Virtual Children's Hospital.

[Teaching Resources Organized by Heart Defect](#) Images and text copyrighted by Dr. Robert H. Ardinger, Jr., MD; from the University of Kansas Medical Center. Extensive illustrations and radiographs.

[The Fourth Report on the Diagnosis, Evaluation, and Treatment of High Blood Pressure in Children and Adolescents](#) August 2004; from the National High Blood Pressure Education Program; full text online.

[3-D Visualization of Congenital Heart Disease](#) By Susanne Shamsolkottabi, Janice Cook-Granroth, William Stanford, MD, Simon Kao, MD, Kevin Baskin, MD, and Eric Hoffman, PhD, at the University of Iowa. Includes case studies and animations of actual scans.

[The Virtual Body](#) Copyright HCA 1999-2005; from [MEDtropolis](#); includes an animated section on the Heart; available in English and Spanish.

[The Yale School of Medicine Heart Book](#) An online textbook from Yale University; viewing of chapters requires [Adobe Acrobat Reader](#). Includes Chapter 20 Heart Disease in the Young by Charles S. Kleinman, MD.

Journals

[Pediatric Cardiology](#) Tables of contents and abstracts are available online; full access is available by subscription.

Agencies and Organizations

[American College of Cardiology](#) Many useful items, including expert consensus documents.

[American Heart Association](#)

[Association for European Paediatric Cardiology](#)

[Canadian Cardiovascular Society](#)

[Children's Heart Society](#) Offers support to parents of children with heart disorders.

[Children's Heartlink](#) "an international medical charity dedicated to the treatment and prevention of heart disease in needy children."

[Heart Children New Zealand](#)

[Heart to Heart International, Inc.](#) "a non-profit organization that is dedicated to helping children in the developing world who have congenital heart defects."

[Kids with Heart National Association for Children's Heart Disorders, Inc.](#)

[National Dysautonomia Research Foundation](#)

[National Heart, Lung, and Blood Institute](#)

[PedsCCM: Pediatric Critical Care Nursing, Society for Critical Care Medicine](#)

Patient/Health Education

[Congenital Heart Disease Online Handbook](#)

[Little Hearts Matter](#) "A support group for families of children with hypoplastic left heart syndrome"; from the UK.

[PediHeart](#) Maintained by HA Hennein, MD.

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

Consider using the following MeSH (**M**edical **S**ubject **H**eading) terms when doing searches on some of the topics in the above chapters:

Heart Diseases	Heart
Cardiovascular Agents	Cardiovascular System
Cardiovascular Disease	Heart Surgery
Extracorporeal Circulation	Coronary Artery Bypass

Cardiac Cycle

Cardiovascular Surgical Procedures

Blood Pressure Measurement

Cardiology (the profession)

You can also use the subheading **prevention and control (pc)** and attach it to specific subjects.

Example: heart diseases/pc can be combined with exercise to retrieve articles on using [exercise to prevent heart disease](#). MEDLINE is a 'disease' oriented database - you must often use the **pc** subheading with a disease to address prevention issues. This sample search is performed on the National Library of Medicine's PubMed MEDLINE interface. It is limited to articles in English.

Pulmonary System

32. [Structure and Function of the Pulmonary System](#)

33. [Alterations of Pulmonary Function](#)

34. [Alterations of Pulmonary Function in Children](#)

32: Structure and Function of the Pulmonary System

[Anesthesiology And Respiratory Physiology](#) By David H. Walker, MA, RRT, RCP; covers a wide variety of topics such as oxygen toxicity and ventilator topics; also provides links to additional resources.

[Breath Sounds](#) Part of the LUMEN educational site; property of Loyola University Chicago, Stritch School of Medicine.

[Catch Your Breath](#) A learning activity from the Science Museum of Minnesota.

[The Human Respiratory System](#) Extensive site from the American Lung Association that includes an animated explanation of how the lungs work.

[MedMotion Gallery](#) Includes animations related to the respiratory system.

[The R.A.L.E. Repository](#) From the University of Manitoba, Canada; download R.A.L.E.® View, a program to play and view the respiratory audio files at this site. Respiratory Rate and Pattern of Breathing From Loyola University, Chicago.

[Respiratory System: Structure and Function of the Lung](#) By Thomas A. Godwin, MD, Department of Pathology, New York Hospital Queens, Cornell University; includes excellent pathology illustrations.

[Respiratory Rate and Pattern of Breathing](#) From Loyola University, Chicago.

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[Acute Bronchitis](#) An online article by William J. Hueston, MD, and Arch G. Mainous III, PhD, from *American Academy of Family Physicians*, March 15, 1998. Includes a link to a patient education handout.

[The Acute Respiratory Distress Syndrome: Myths and Controversies](#) By Joseph Varon, MD, FACA, FACP, and Olivier Wenker, MD, DEAA; online article from the *Internet Journal of Emergency & Intensive Care Medicine*.

[Acute Sinusitis: A Cost-Effective Approach to Diagnosis and Treatment](#) An online article from *American Family Physician*, November 15, 1998. Includes link to an accompanying [Patient Handout](#).

[American Thoracic Society Guidelines](#) Scroll down for the guidelines on **Pulmonary Function Testing**.

[ARDS Clinical Network](#) " a clinical network to carry out multi center clinical trials of novel therapeutic agents for ARDS."

[Aspiration Pneumonia](#) By Mihai Dimancescu, MD; on the [Coma Recovery Association](#) server.

[Asthma](#) An extensive interactive tutorial; from the University of California at San Diego School of Medicine.

[Asthma and Chronic Obstructive Pulmonary Disease](#) From the [National Occupational Research Agenda \(NORA\)](#).

[Basic Radiology Imaging Lectures](#) Author/Editor John Terry, MD. This is an extensive site with many illustrations covering different procedures, including Chest X-Ray and Special Pulmonary Imaging.

[Black, White, and Shades of Gray: Common Abnormalities in Chest Radiographs](#) Maria A. Connolly, RN, DNSc, CCRN; an online continuing education article available full-text from *AACN Clinical Issues Advanced Practice in Acute & Critical Care*.

[Breathing Easier: An Inter-disciplinary Goal Oriented Approach to Oxygen Therapy Administration](#) and [Oxygen Delivery Devices](#) From London Health Sciences Center, Ontario, Canada.

[Breathe Easy: A Guide to Living with COPD](#) Part of the [Chronic Obstructive Pulmonary Disease](#) site from the Canadian Lung Association.

[Bronchiectasis](#) Overview from the Canadian Lung Association.

[Canadian Tuberculosis Standards, 5th edition](#) Available full-text online in PDF format from Health Canada.

[Case files](#) From the French Council of the Teachers of Radiology. Over 3700 cases with illustrations. Because the translations were automated, the English text is sometimes not quite accurate. There are an additional 14 cases with automated movies that require the Quicktime free plug-in.

[CDC Fact Sheets: A to Z Topics](#) Includes a section on Anthrax.

[Chest drains](#) An overview from [Surgical Tutor](#), UK.

[Chest Radiographs showing the appearances in obstructive atelectasis of the various lobes](#) From the [George Simon collection of Cases in Cardio-thoracic Radiology](#), [Radiology Museum](#), London Southbank University, UK.

[Clinical Values](#) From Frontiers in Bioscience; includes ideal weights and heights, nomograms, and more.

[Core Curriculum on Tuberculosis: Chapter 8 - Infection Control](#) Available full-text online from the [CDC-Division of Tuberculosis Elimination](#).

[Eating Right: Tips for the COPD Patient](#) From the American Association for Respiratory Care.

[Ending Neglect: The Elimination of Tuberculosis in the United States](#) Information and supplementary materials, including a video, related to "a new report by the Division of Health Promotion and Disease Prevention of the Institute of Medicine, provides a multistep strategy designed to eliminate tuberculosis in the United States by 2035."

[Guidelines for Preventing Health-Care-Associated Pneumonia, 2003](#) From the Centers for Disease Control and Prevention.

[Hantavirus Pulmonary Syndrome and Sin Nombre Virus Online Slideset](#) From the Special Pathogens Branch, Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases; available for downloading with technical notes.

[Lung Cancer Frontiers](#) A site dedicated to the "early diagnosis and treatment" of lung cancer, and to promote rapid communication of new knowledge related to lung cancer.

[Lung Cancer Home Page](#) of the National Cancer Institute. Includes professional and consumer level resources on all aspects of lung cancer causes and treatment, including [State of the Science: Lung Cancer](#).

[Lung Cancer Online](#) Contains links to physicians and facilities, information reports, discussions of treatments, complications, and more.

[LungCancer.org](#) Copyright © 2005 by It's Time To Focus On Lung Cancer; sponsored by Cancer Care, Inc. and the Oncology Nursing Society; contains both professional and patient resources.

[Malignant Pleural Mesothelioma: Radiologic-Pathologic Correlation](#) Extensive illustrated site from the Radiological Society of North America.

[MEDSCAPE Pulmonary Medicine](#) Requires registration, but registration is free. A worthwhile and frequently updated resource.

[Metered-Dose Inhaler: How to Use it Correctly](#) From the American Academy of Family Physicians' patient education site, [familydoctor.org](#); also available in Spanish.

[Nasopharyngeal Cancer \(PDQ®\): Treatment](#) Extensive information from the National Cancer Institute.

[Nasopharyngeal Cancer and the Southeast Asian Patient](#) Online article from *American Family Physician*, May 1, 2001. Includes a link to a patient handout.

[National Asthma Education and Prevention Program](#) National Heart, Lung, and Blood Institute Information Center, National Institutes of Health.

[National Lung Health Education Program](#)

[Pathology of Tuberculosis](#) An online tutorial from the Internet Pathology Laboratory.

[Physical Diagnosis-Clubbing](#) From Loyola University.

[Pleurisy](#) Illustrated overview from the Medical Encyclopedia, Medline Plus.

[Pneumonia](#) Links to online resources from Medline Plus.

[Pneumothorax](#) Illustrated overview from the Medical Encyclopedia, Medline Plus.

[Problems of Oxygenation: Ventilation](#) A Power Point slide presentation from Tammy Halterman, RN, MS, Indiana State University.

[Pulmonary Diagnostic Procedures](#) From [Cardiothoracic Surgery Notes](#), "an online interactive review developed by residents in cardiothoracic surgery".

[Pulmonary Disorders](#) From the online edition of the *Merck Manual*.

[Pulmonary Embolism and Deep Vein Thrombosis](#) An illustrated patient education document from *Circulation*, 2002, made available by the American Heart Association.

[Pulmonary Pathology Index](#) Pathologic and histologic illustrations and text from the Internet Pathology Laboratory.

[Pulse Oximetry](#) An online article by Dr. SJ Fearnley, from *Anaesthesia Update*.

[Reported Tuberculosis in the United States, 2003](#) and [Core Curriculum on Tuberculosis \(2000\)](#) From the [National Center for HIV, STD, and TB Prevention](#), [Division of Tuberculosis Elimination](#).

[Case 3: Shortness Of Breath](#) An online case study from the Southwestern Ontario Regional Academic Health Science Network Continuing Education Series.

[Severe Acute Respiratory Syndrome \(SARS\)](#) Guidelines and recommendations from the Centers for Disease Control and Prevention.

[Severe Acute Respiratory Syndrome](#) A collection of links to web resources from Medline Plus.

[Sinusitis](#) A collection of links to web resources from Medline Plus.

[Tuberculosis](#) Includes links to many resources such as [slide presentation \(requires Power Point\)](#) and [overhead transparencies](#) (requires Adobe Acrobat), on occupational exposure to TB; from OSHA.

[Understanding Colds](#) Information on anatomy, causes and more from this "comprehensive, updated and referenced source of information on the common cold." Content selected by Jack M. Gwaltney, MD, and Frederick G. Hayden, MD. Includes a separate section on cold infections in [Children](#).

[Viral Respiratory Infections](#) Extensive site from the Department of Medical Microbiology, University of Cape Town.

Journals

[Advance for Managers of Respiratory Care](#) Open access online.

[Advance for Respiratory Care Practitioners](#) Open access online.

[American Journal of Respiratory and Critical Care Medicine](#) Tables of contents and abstracts are available online; full access is available by subscription.

[Canadian Respiratory Journal](#) Journal of the Canadian Thoracic Society; abstracts and tables of contents are available without subscription.

[CHEST: Cardiopulmonary & Critical Care Journal](#) Tables of contents and abstracts are available online; full access is available by subscription.

[Chest Medicine On-line](#) Edited by Peter Davies, MA, DM, FRCP; copyright ©Priory Lodge Education Ltd.

[Heart & Lung: the Journal of Acute and Critical Care](#) Full-text articles are available to personal subscribers starting from September 1998 to the present; abstracts, references, and PDFs are available from 1997 to the present. Access to abstracts is complimentary.

[Pulmonary and Critical Care Update Online](#)

[Respiratory Care Online](#) The official journal of the American Association for Respiratory Care; selected items are available full-text online without subscription.

Agencies and Organizations

[Lung Cancer Alliance](#)

[American Academy of Allergy, Asthma, & Immunology](#)

[American Academy of Otolaryngology-Head & Neck Surgery](#)

[American Association for Respiratory Care - AARC](#) includes [Clinical Practice Guidelines](#).

[American Association of Cardiovascular and Pulmonary Rehabilitation](#) Includes a wide variety of materials, some full-text online.

[American Association of Critical Care Nurses](#)

[American Cancer Society](#) Includes a section on [Statistics](#).

[American College of Chest Physicians](#) Includes Clinical Practice Guidelines and Consensus Statements (full-text).

[American Lung Association](#) A good resource for patient/health education; local chapter pages are also filled with useful information, and this site provides a searchable index to local chapters and [Diseases A to Z](#).

[American Sleep Apnea Association](#)

[American Thoracic Society](#)

[American Thoracic Society Nursing Assembly](#)

[Association of Polysomnographic Technologists](#)

[Asthma & Allergy Foundation of America](#)

[Canadian Lung Association](#)

[Canadian Society of Respiratory Therapists](#)

[CDC-Division of Tuberculosis Elimination](#)

[Coalition for Pulmonary Fibrosis](#)

[Emphysema Foundation For Our Right To Survive - EFFORTS](#)

[International Association of Cystic Fibrosis Adults](#)

[International Lung Sounds Association](#)

[National Cancer Institute - NCI](#)

[National Emphysema Foundation](#)

[National Heart, Lung, and Blood Institute - NHLBI](#) Includes a section on [Lung Diseases](#).

[National Institute of Allergy and Infectious Diseases - NIAID](#)

[National Institute of Environmental Health Sciences - NIEHS](#)

[National Jewish Medical and Research Center](#) Denver; a hospital specializing in pulmonary diseases and disorders.

[Oncology Nursing Society](#)

[Pulmonary Fibrosis Foundation](#)

[Pulmonary Hypertension Association](#)

[Respiratory Nursing Society](#)

[Society of Thoracic Radiology](#)

[Society of Thoracic Surgeons](#)

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[Alveolar Capillary Dysplasia Association](#)

[Caffeine vs theophylline treatment for apnea in preterm infants](#); [Chest physiotherapy for babies being extubated from mechanical ventilation](#); and [Diuretics in preterm infants with respiratory distress syndrome](#). A small

sample of the reviews available from the [Cochrane Neonatal Collaborative Review Group](#); available through the National Institutes of Health.

[Changing Concepts of Sudden Infant Death Syndrome: Implications for Infant Sleeping Environment and Sleep Position](#) A Policy Statement from the American Academy of Pediatrics; March 2000; Task Force on Infant Sleep Position and Sudden Infant Death Syndrome.

[CYSTIC-L Handbook](#) An extensive site with many details about dealing with the clinical problems of cystic fibrosis, including [Chest Percussion and Postural Drainage](#); from [Cystic-L](#) "a free email service dedicated to the exchange of information and support specific to cystic fibrosis".

[Cystic fibrosis From Medline Plus](#) A collection of links to resources available through the web.

[Cystic Fibrosis](#) A metasite from Canada with links to many web resources. Includes a section on [Respiratory Therapy and Cystic Fibrosis](#).

[ElectricAirway: Upper Airway Problems in Children](#) By Donna M. D'Alessandro, MD, and Michael P. D'Alessandro, MD, Department of Radiology, The University of Iowa College of Medicine, Iowa City, IA; from the Virtual Children's Hospital; includes [Case Studies](#).

[Global Initiative for Asthma \(GINA\)](#) A collaborative effort between the World Health Organization and the National Heart Lung and Blood Institute, NIH; contains guidelines for asthma management and patient information guides; see also the [NHLBI](#) and the [ASMANET](#) (in French) web sites for additional patient and health care provider resources for asthma.

[National Asthma Education and Prevention Program](#), National Heart, Lung, and Blood Institute Information Center (NHLBI) National Institutes of Health.

[Pediatrics, Reactive Airway Disease](#) From eMedicine. Authored by Eric Chin, MD.

[Practice Guidelines for the Diagnosis and Management of Group A Streptococcal Pharyngitis](#) Online article by Alan L. Bisno, Michael A. Gerber, Jack M. Gwaltney, Jr., Edward L. Kaplan, and Richard H. Schwartz, practice guideline from the Infectious Diseases Society of America, published in *Clinical Infectious Diseases* 2002; 35:113-125.

[Respiratory disease in the newborn](#) Reviews from Health Evidence Bulletins, Wales.

[Respiratory Syncytial Virus](#) Thorough overview from [KidsHealth](#), Nemours Foundation.

[Respiratory Syncytial Virus Infections](#) A collection of links to web resources from Medline Plus.

[Respiratory Syncytial Virus Fact Sheet](#) From the American Lung Association.

[Revised Indications for the Use of Palivizumab and Respiratory Syncytial Virus Immune Globulin Intravenous for the Prevention of Respiratory Syncytial Virus Infections](#) Policy Statement from the American Academy of Pediatrics, December 2003.

[Statistics & CF](#) From a [Cystic Fibrosis](#) web site maintained by Norma Kennedy Plourde, New Brunswick, Canada, who has cystic fibrosis.

[Surfactant Replacement Therapy for Respiratory Distress Syndrome](#) Policy Statement from the American Academy of Pediatrics, 1999.

[Therapy for Children with Invasive Pneumococcal Infections](#) 1997 Policy Statement from the American Academy of Pediatrics, Committee on Infectious Diseases.

[Thoracopaedia: An Imaging Encyclopedia of Pediatric Thoracic Disease Case 31, Lung Transplantation for Cystic Fibrosis](#) By Michael P. D'Alessandro, MD.

[Treatment of Acute Streptococcal Pharyngitis and Prevention of Rheumatic Fever](#) "A Statement for Health Professionals" 1995; from the American Heart Association.

Agencies and Organizations

[Allergy & Asthma Network Mothers of Asthmatics](#)

[Alpha 1 Association](#)

[Alpha-1 Foundation](#)

[American Academy of Allergy, Asthma, & Immunology](#)

[American Academy of Pediatrics - AAP](#) and [AAP Section on Pediatric Pulmonology](#)

[American SIDS Institute](#)

[Asthma & Allergy Foundation of America](#)

[Canadian Cystic Fibrosis Foundation](#)

[Cystic Fibrosis Foundation](#)

[Muscular Dystrophy Association, USA - MDA](#)

[National Heart, Lung, and Blood Institute - NHLBI](#)

[National Institute of Allergy and Infectious Diseases - NIAID](#)

[National Institute of Environmental Health Sciences - NIEHS](#)

[National Lung Health Education Program](#)

[National SIDS Resource Center](#)

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

The MeSH heading "lung diseases" includes many more specific headings such as: atelectasis; lung diseases, interstitial; the heading "respiratory hypersensitivity" includes the more specific headings - hay fever and asthma; and "respiration disorders" includes the more specific headings - dyspnea and apnea.

Also consider using the following MeSH (**M**edical **S**ubject **H**eading) terms when doing searches on some of the topics in the above chapters:

Respiratory Tract Diseases	Respiratory Tract
Respiratory Physiology	Respiratory Sounds
Respiration, Artificial	Respiratory Mechanics
Lung	Nose
Trachea	Pharynx
Pneumonia	Rhinitis
Tracheitis	Pharyngitis
Airway Resistance	Tests, Pulmonary Function
Pulmonary Ventilation	Pulmonary Gas Exchange

Click here for a quick and very focused MEDLINE search on [skin colors in COPD](#). This sample search is performed on the National Library of Medicine's PubMed MEDLINE interface. It is limited to articles in English, about humans.

Renal and Urologic System

35. [Structure and Function of the Renal and Urologic Systems](#)

36. [Alterations of Renal and Urinary Tract Function](#)

37. [Alterations of Renal and Urinary Tract Function in Children](#)

35: Structure and Function of the Renal and Urologic Systems

[Blood-Chemistry Tutorials](#) Online tutorials from the Chemistry Department, Washington University, St. Louis; includes Maintaining the Body's Chemistry: Dialysis in the Kidneys.

[How the Kidney Works](#) From [The Nephron Information Center](#).

[The Kidney at a Glance](#) A site designed to accompany the book of the same title by Chris O'Callaghan and Barry Brenner; includes online animations.

[Urinalysis](#) An illustrated online tutorial from the Internet Pathology Laboratory.

[Urinary System](#) On JayDoc HistoWeb; Copyright University of Kansas Medical Center.

Journals

[American Journal of Kidney Diseases](#) Published by W.B. Saunders Company, an imprint of Elsevier for The National Kidney Foundation, Inc. Full-text articles are available from 1998 to the present. Abstracts, references and PDFs are available from 1995 to the present; Abstracts are available from 1981 to the present. Access to abstracts is complimentary. Access to full text is limited to NKF and personal subscribers.

[Journal of Renal Nutrition](#) Published by W.B. Saunders Company, an imprint of Elsevier for The National Kidney Foundation, Inc. Full-text articles are available to NKF and ISRN&M members and personal subscribers starting from 2002 to the present; abstracts, references, and PDFs are available from 1995 to the present; tables of contents are available from 1991 to the present. Access to tables of contents and abstracts is complimentary.

[Transplantation Proceedings](#) An official publication of more than 20 societies including the [Transplantation Society](#). Full-text articles are available from 1998 to the present. Access to abstracts is complimentary. Access to full text is limited to print subscribers.

Agencies and Organizations

[American Association of Kidney Patients](#)

[American Society for Artificial Internal Organs](#)

[American Society of Transplantation](#)

[American Society of Transplant Surgeons](#)

[American Nephrology Nurses' Association](#)

[American Urogynecologic Society](#)

[American Urological Association, Inc.](#)

[Australian and New Zealand Society of Nephrology](#)

[Australian Kidney Foundation](#)

[Canadian Society of Nephrology](#)

[Canadian Transplant Association](#)

[International Society for Peritoneal Dialysis](#)

[Kidney Foundation of Canada](#)

[National Institute of Diabetes and Digestive and Kidney Diseases](#)

[National Kidney and Urologic Diseases Information Clearinghouse](#)

[National Kidney Foundation](#)

[PKD Foundation](#) Formerly the Polycystic Kidney Research Foundation

[Society of Urologic Nurses and Associates](#)

[Urology Nurses of Canada](#)

36: Alterations of Renal and Urinary Tract Function

[Acute Renal Failure](#) Online article from *American Family Physician*, April 1, 2000.

[American Cancer Society](#) Includes a section on [Statistics](#).

[Analgesic Nephropathy \(Painkillers and the Kidneys\)](#) From the National Kidney and Urologic Diseases Information Clearinghouse.

[Atlas of Diseases of the Kidney](#) Series Editor Robert W. Schrier; On-line edition sponsored by ISN Informatics Commission and [NKF cyberNephrology](#); chapters are available in PDF format and require [Adobe Acrobat Reader](#) to view. Some chapters also include PowerPoint presentations.

[Bladder Cancer](#) Illustrations and information from the Medical Encyclopedia, Medline Plus.

[Diagnostic Evaluation of Urinary Incontinence in Geriatric Patients](#) Online article by Barry D. Weiss, MD, from *American Family Physician*, June 1998.

[Diagnosis and Management of Acute Interstitial Nephritis](#) Online article from *American Family Physician*, June 15, 2003.

[Diagnosis and Initial Management of Kidney Stones](#) Online article from *American Family Physician*, April 1, 2001.

[Functional Incontinence: Etiology, Assess, Management](#) By Thelma J. Wells, PhD, RN, FAAN, FRCN; from Urology Nurses of Canada.

[Interstitial Cystitis: An Updated Overview](#) By Kenneth M. Peters. Includes information on drug therapies; an online continuing education module from the Society of Urologic Nurses and Associates.

[Kidney infection \(pyelonephritis\)](#) Illustrations and text from the Medical Encyclopedia, Medline Plus.

[National Kidney Disease Education Program](#) of the National Institutes of Health. Includes a selection of "online tools" for health professionals for treatment of kidney diseases in the primary care setting.

[NephroWorld](#) An extensive site with information and links on all aspects of nephrology, designed for truly international use.

[The Nephron Information Center](#) Includes a [directory](#) of dialysis and transplantation centers in the United States.

[The Nephrotic Syndrome](#) An illustrated online tutorial by J. Charles Jennette, MD; produced by F.W. Maddux, MD.

[Organ Transplants](#) An extensive resource site from [Kimball's Biology Pages](#).

[Preoperative Care of Patients with Kidney Disease](#) Online article from *American Family Physician*, October 15, 2002.

[Renal Cell Carcinoma](#) Illustrations and information from the Medical Encyclopedia, Medline Plus.

[Renal disease in the elderly: Distinctive disorders, tailored treatments](#) Online article from *Postgraduate Medicine*, December 1996.

[Renal Failure](#) From the section on [Genitourinary Disorders](#) of the *Merck Manual of Diagnosis and Therapy*.

[Renal Pathology](#) Histologic and pathologic illustrations and explanatory text from the Internet Pathology Laboratory.

[Renal Pathology Tutorial](#) By J. Charles Jennette, MD; produced by F.W. Maddux, MD; illustrated.

[RenalNet](#) A major information site with multiple topics, including [End Stage Renal Disease](#).

[RenalWEB](#) Dialysis web site, professional resources, patient education, product information.

[The Role of the Renal Dietitian](#) From the [Diet](#) section of the [Kidney Patient Guide](#); part of an extensive site from the UK.

[State of the Science on Urinary Incontinence](#) Many of the materials are available full text online. From *AJN, American Journal of Nursing*, March 2003, Supplement, vol. 103, no. 3.

[Systemic complications of chronic kidney disease: Pinpointing clinical manifestations and best management](#) Online continuing education article from *Postgraduate Medicine*, February 2002.

[Understanding Urinary Tract Infections in Adults](#) From the National Institute of Diabetes and Digestive and Kidney Diseases.

[United States Renal Data System - USRDS](#)

[Urinary Catheter Management](#) Online article by David D. Cravens, MD, MSPH, and Steven Zweig, MD, MSPH, from *American Family Physician*, January 15, 2000.

37: Alterations of Renal and Urinary Tract Function in Children

[Childhood Nephrotic Syndrome](#) From [Nephkids](#) cyber-support group for parents of children with kidney disease.

[The Diagnosis, Treatment, and Evaluation of the Initial Urinary Tract Infection in Febrile Infants and Young Children](#) Practice Guideline from the American Academy of Pediatrics, April 1999.

[Diseases of Kidney](#) From the [PathWeb:Virtual Pathology Museum](#), Department of Pathology, University of Connecticut Health Center. Includes many illustrations of Wilms' Tumor.

[Evaluation and Treatment of Urinary Tract Infections in Children](#) By Syed M. Ahmed, MD, MPH, DPH, and Steven K. Swedlund, MD, *American Family Physician*, April 1, 1998; full text online article; includes overview of imaging tests used for diagnosis.

[Genitourinary Disease Index](#) From the *Paediapedia*, by Michael P. D'Alessandro, MD, Virtual Children's Hospital.

[Hemolytic Uremic Syndrome](#) Information and relevant web links from the National Kidney and Urologic Diseases Information Clearinghouse - NKUDIC.

[The Nephrotic Syndrome](#) A Renal Pathology Tutorial written by J. Charles Jennette, MD; produced by F.W. Maddux, MD.

[Pediatric UroLogic](#) From Richard M. Parker, MD, FAAP, FACS; overviews of disorders designed for parents.

[Urinary Incontinence in Children](#) From the National Kidney and Urologic Disease Clearinghouse, National Institute of Diabetes and Digestive and Kidney Diseases - NIDDKD. Includes: How Does the Urinary System Work? What Causes Nighttime Incontinence? What Causes Daytime Incontinence? What Treats or Cures Incontinence? Points to Remember; Additional Resources.

[Wilms' Tumor and Other Childhood Kidney Tumors](#) Extensive information from the National Cancer Institute.

Agencies and Organizations

[American Society of Pediatric Nephrology](#)

[Children's Organ Transplant Association](#)

[European Society for Paediatric Nephrology](#)

[North American Pediatric Renal Transplant Cooperative Study](#)

[Society for Pediatric Urology](#)

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

Consider using the following MeSH (**M**edical **S**ubject **H**eading) terms when doing

searches on some of the topics in the above chapters:

Kidney Transplantation	Uremia
Urinary Tract	Urination Disorders
Urinary Tract Diseases	Nephrology (the profession)
Urologic Diseases	Urology (the profession)
Kidney	Bladder Diseases
Kidney Diseases	Bladder
Glomerulonephritis	Urinary Incontinence
Kidney Failure, Chronic	Kidney Failure, Acute
Hemodialysis	

Click here for a quick and very focused MEDLINE search on the [epidemiology of glomerulonephritis](#). This sample search is performed on the National Library of Medicine's PubMed MEDLINE interface. It is limited to articles in English.

Digestive System

38. [Structure and Function of the Digestive System](#)

39. [Alterations of Digestive Function](#)

40. [Alterations of Digestive Function in Children](#)

38: Structure and Function of the Digestive System

[The Abdomen](#) By Richard Rathe, MD. Updated: July, 1997. Copyright © 1997 by Richard Rathe, MD. All Rights Reserved. Extensively illustrated with drawings and photographs.

[Clinical Guidelines](#) From the [British Society of Gastroenterology](#).

[Cross-sectional Anatomy - Abdomen](#) From Loyola University; provides cross-sectional images and the corresponding CT images.

[Gastrointestinal System](#) From JayDoc HistoWeb, Copyright University of Kansas Medical Center.

[Gastrointestinal System](#) Chapter 5 of [Clinical Practice Guidelines for Nurses in Primary Care](#) An online guide from Health Canada; covers multiple organ systems; "intended primarily for use by qualified and licensed nurses working in nursing stations and treatment health centers located in semi-isolated and isolated First Nations and Inuit communities".

[Pathophysiology of the Digestive System](#) From the University of Colorado.

[Screening Physical Exam](#) Select relevant sections from this main menu; from Loyola University.

[SIGBIO's Virtual Anatomy - Digestive System](#) From the University of Illinois, Urbana-Champaign; designed for undergraduate level study.

Agencies and Organizations

[American College of Gastroenterology](#)

[American Gastroenterological Association](#)

[American Society for Gastrointestinal Endoscopy](#)

[American Society of Colon and Rectal Surgeons](#)

[National Institute of Diabetes and Digestive and Kidney Diseases](#)

[Society of Gastroenterology Nurses and Associates, Inc.](#)

39: Alterations of Digestive Function

[Achalasia and Esophageal Motility Disorders](#) Description by Mark Ferguson, MD, and Medical Illustrations by Jill Rhead, MA; patient level materials from the [Society of Thoracic Surgeons](#).

[Acute Stress Ulceration \(GI\)](#) By Philip Cumpston ; from the [Australian and New Zealand Intensive Care Society](#).

[Alcohol's Effect on Organ Function](#) An issues of [Alcohol Research & Health](#) Volume 21, Number 1, 1997. Full-text online; includes sections on pancreas, liver, and gastrointestinal effects.

[ASCRS Patient Information](#) American Society of Colon and Rectal Surgeons; includes Bowel Incontinence, Colonoscopy, Colorectal Cancer, Crohn's Disease, Diverticular Disease, Irritable Bowel Syndrome, Ostomy, Polyps of the Colon & Rectum, New Surgical Options for the Treatment of Ulcerative Colitis, and more.

[ASCRS Practice Parameters](#) Includes guidelines for Hemorrhoids, Anal Fissure, Rectal Carcinoma, Sigmoid Diverticulitis, Antibiotic Prophylaxis to Prevent Infective Endocarditis or Infected Prosthesis during Colon and Rectal Endoscopy, and Detection of Colorectal Neoplasms.

[Atlas of Gastrointestinal Endoscopy](#) Includes sections on Inflammatory Bowel Diseases, Colon and Ileum; endoscopic images copyright © Atlanta South Gastroenterology, P.C. All rights reserved.

[Care of a patient with a gastrostomy](#) An online care plan.

[Chronic Hepatitis C: Current Disease Management](#) From the National Digestive Diseases Information Clearinghouse.

[Clinical Guidelines](#) From the [British Society of Gastroenterology](#).

[Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults](#) Full-text, with special topics such as Body Mass Calculator, Evidence Tables, and Tip Sheets; from the [National Heart Lung and Blood Institute, NHLBI](#).

[Colon and Rectal Cancer Home Page](#) From the National Cancer Institute. Includes information on treatment, screening, and links to statistical resources.

[Columbia University Gastroenterology Web](#)

[Consumer Information](#) From the [American Dental Association](#); includes a separate section for parents and children.

[Constipation](#) Resource links from Medline Plus.

[Constipation](#) Online information from the National Digestive Diseases Information Clearinghouse - NDDIC.

[Constipation in the Elderly](#) Online article by David C. Schaefer, MD, PhD, and Lawrence J. Cheskin, MD; from *American Family Physician* September 15, 1998.

[Diarrhea](#) Information from the Division of Parasitic Diseases, National Center for Infectious Diseases. Includes specific information about different parasites and about waterborne diseases.

[Diarrhea](#) Online information from the National Digestive Diseases Information Clearinghouse - NDDIC.

[Diarrhea](#) Resource links from Medline Plus.

[Chapter 27. Diarrhea and Constipation](#) *Merck Manual of Diagnosis and Therapy*, 17th Edition, Copyright 1995-2000 Merck & Co., Inc., Whitehouse Station, NJ, USA. All rights reserved.

[Diseases of the Liver](#) Copyright, Howard J. Worman, MD, Columbia University, an online textbook.

[Endoscopic Retrograde Cholangiopancreatography \(ERCP\) for Diagnosis and Therapy](#) NIH Consensus Statement, January 14-16, 2002 Vol. 18, No. 1, full-text online.

[Esophageal Achalasia](#) [You need to register to enter the guidelines area] Patient Care Guideline from the [Society for Surgery of the Alimentary Tract, Inc.](#)

[Gallstones and Laparoscopic Cholecystectomy](#) NIH Consensus Development Conference, Sept. 14-16, 1992; full-text online.

[Gallstones](#) and [Dieting and Gallstones](#) Information from the [National Digestive Diseases Information Clearinghouse](#), [National Institute of Diabetes and Digestive and Kidney Diseases - NIDDK](#).

[Gastrointestinal Health](#) Streaming video presentations available from the [American Gastroenterological Association](#); includes information on heartburn and gastroesophageal reflux.

[GastroLab](#) A site from The Wasa Workgroup on Intestinal Disorders, Finland. Includes an Image Library, and illustrated Encyclopedia, and more.

[GERD Information Resource Center](#) Sponsored by AstraZeneca LP.

[Guidelines for the Clinical Application of Laparoscopic Biliary Tract Surgery](#) and [Streaming Video Educational Resources](#) From the [Society of American Gastrointestinal Endoscopic Surgeons](#).

[Heartburn, Hiatal Hernia, and Gastroesophageal Reflux Disease \(GERD\)](#) From the [National Institute of Diabetes and Digestive and Kidney Diseases](#).

[Helicobacter Pylori in Peptic Ulcer Disease](#) NIH Consensus Development Conference, Feb 7-9, 1994.

[Hepatitis A](#), [Hepatitis B](#), and [Hepatitis C](#) Collections of links to web resources from [Medline Plus](#).

[Hepatitis B](#) From the [Manual for the Surveillance of Vaccine-Preventable Diseases 3rd Edition, 2002](#), Centers for Disease Control and Prevention.

[Hepatitis C](#) Appendix 8 in [Vaccines for the 21st Century: A Tool for Decisionmaking](#), 2001, available full-text online from the National Academies Press.

[Hepatitis C](#) and [New and Future Treatments for Chronic Hepatitis C](#) By Howard J. Worman, MD; from the [Diseases of the Liver](#) site, Columbia University, New York.

[Imaging the Gallbladder](#) From Colorado State University.

[Inflammatory Bowel Diseases](#) An online tutorial from the Internet Pathology Laboratory.

[Management of Hepatitis C](#) NIH Consensus Development Statement March 24-26, 1997 Vol. 15, No. 3, full-text online.

[Management of Hepatitis C: 2002](#) NIH Consensus Development Conference, June 10-12, 2002 Vol. 19, No. 1, full-text online.

[Nuclear Medicine Imaging and Function Studies of the Gastrointestinal System](#) Copyrighted by Lyle J. Goodin, BSc, MRT(N), ACNM; extensive illustrated site.

[Obesity](#) From the [Nutritional Disorders](#) section of the [Merck Manual of Diagnosis and Therapy](#), 2000; full-text online.

[Oral Health](#) homepage from the Centers for Disease Control and Prevention. Gateway site to a large collection of full-text resources, including *Oral Health in America: A Report of the Surgeon General* and more.

[Oral Health U.S. 2002](#) Online report from the National Institute of Dental And Craniofacial Research - NIDCR.

[Pancreas Cancer Home Page](#) At the Johns Hopkins Medical Institutions.

[Texas Virtual Clinic](#) University of Texas-Houston; Frank G. Moody, MD, FACS, Director; overview of digestive system, diseases, and case studies.

[Ulcers and Other Gastric Disorders](#) From Doctor's Guide to the Internet.

[Viral Hepatitis: Epidemiology and Prevention of Viral Hepatitis A to E: An Overview.](#) PowerPoint and Adobe Acrobat files available for downloading from the Centers for Disease Control and Prevention.

[Wernicke-Korsakoff Syndrome](#) (Alcohol-Related Dementia) A Fact Sheet from the Family Caregiver Alliance.

Journals

[Abdominal Imaging](#) Tables of contents and abstracts are available online; full access is available by subscription.

[American Journal of Gastroenterology](#) Tables of contents and abstracts are available online. Full-text is accessible only by subscription.

[Gastroenterology](#) Official journal of the American Gastroenterological Association. Full-text articles are available from 1996 to the present; Abstracts, References, and PDFs are available from 1978 to the present; Abstracts and Tables of Contents are available from 1975 to the present; Tables of Contents are available from 1965 to the present. Access to full-text articles is limited to AGA society members and print subscribers.

[Gastrointestinal Endoscopy](#) Official Journal of the American Society for Gastrointestinal Endoscopy. Full-text articles are available to ASGE members and personal subscribers starting from 1994 to the present. Access to tables of contents and abstracts is complimentary.

Agencies and Organizations

[American Association for the Study of Liver Diseases](#) Includes a section on important drug alerts.

[American College of Gastroenterology](#)

[American Gastroenterological Association](#)

[American Liver Foundation](#)

[American Obesity Association](#)

[American Society of Colon and Rectal Surgeons](#)

[Canadian Association of Gastroenterology](#)

[Celiac Sprue Association USA](#)

[Crohn's and Colitis Foundation of America](#)

[Crohn's and Colitis Foundation of Canada](#)

[Division of Gastroenterology](#), University of California San Francisco. An extensive set of links to this and other academic gastroenterology departments is available from [Columbia University Division of Digestive and Liver Diseases](#)

[Hepatitis Foundation International](#)

[International Foundation for Functional Gastrointestinal Disorders](#)

[National Digestive Diseases Information Clearinghouse](#) Includes well illustrated materials; includes Spanish language materials.

[National Institute of Diabetes and Digestive and Kidney Diseases](#)

[Oncology Nursing Society](#)

[Overeaters Anonymous](#)

[Society of Gastroenterology Nurses and Associates, Inc.](#)

[United Ostomy Association](#)

[Wound, Ostomy and Continence Nurses Society - WOCN](#)

40: Alterations of Digestive Function in Children

[Celiac Disease: A Guide for Children and Their Families](#) From the [The North American Society for Pediatric Gastroenterology, Hepatology and Nutrition](#).

[Childhood Pancreatitis](#) By Gordon Uretsky, MD, Markus Goldschmiedt, MD, and Kyle James, MD; *American Family Physician*, May 1, 1999.

[Fulminant hepatic failure /hepatic encephalopathy & edema](#) From the [ALL-NET Pediatric Critical Care Textbook](#). Some parts of this article are still under construction.

[Gastroesophageal Reflux in Infants and Children](#) Online article by Andrew D. Jung, MD, from *American Family Physician*, December 1, 2001; includes a link to a patient education handout.

[Gastrointestinal Manifestations of Cystic Fibrosis: Radiologic-Pathologic Correlation](#) Illustrated online article from *RadioGraphics*, July 1, 1996, vol.16, no. 4.

[Hirschsprung's Disease](#) A consumer level overview from Texas Pediatric Surgical Associates; available in English and Spanish.

[Hirschsprung's Disease](#) An illustrated case study, from the [Pediatric Imaging Teaching Files](#), [UHRAD.com](#), University Hospitals of Cleveland and Rainbow Babies and Children's Hospital.

[Hypertrophic Pyloric Stenosis](#) Illustrated case study of a four week old infant, from the [Pediatric Imaging Teaching Files, UHRAD.com](#), University Hospitals of Cleveland and Rainbow Babies and Children's Hospital.

[Necrotizing Enterocolitis](#) Extensive information for parents from [KidsHealth](#), a web site from the Nemours Foundation that provides information targeted for children, parents, and teens.

[Necrotizing Enterocolitis Study Toward Evidence-based Pediatric Surgery \(NEC STEPS\)](#) An extensive illustrated site from Stanford University. A special study involving multiple hospitals funded by a federal grant. Includes separate information for [Parents](#). Includes information on enrolling in the clinical trials involved with this project.

[Necrotizing Enterocolitis](#) and [Abdominal wall erythema in necrotizing enterocolitis](#) from the [Image Bank of Pediatric Surgery @Brown](#) Medical School.

[Paediapaedia: Gastrointestinal Diseases, Gastrointestinal Disease Index](#)
By Michael P. D'Alessandro, MD. From the Virtual Children's Hospital, University of Iowa.

[Pyloric Stenosis](#) One of a [collection](#) of consumer level information resources from Children's Hospital of New York-Presbyterian [Division of Pediatric Surgery](#).

Agencies and Organizations

[American Academy of Pediatric Dentistry](#) Describes techniques and materials used in pediatric dentistry.

[American Cleft Palate-Craniofacial Association](#)

[American College of Gastroenterology](#)

[American Gastroenterological Association](#) Includes a selection of [Public/Patient](#) materials, many in Spanish as well as English.

[Association of Pediatric Gastroenterology and Nutrition Nurses](#)

[Celiac Disease Foundation](#)

[The Celiac Sprue Association/United States of America](#)

[Children Living with Inherited Metabolic Diseases \(CLIMB\)](#) From the UK.

[European Society of Paediatric Gastroenterology, Hepatology & Nutrition](#)

[National Institute of Dental and Craniofacial Research](#)

[National Institute of Diabetes and Digestive and Kidney Diseases - NIDDK](#)

[North American Society for Pediatric Gastroenterology, Hepatology and Nutrition](#)

[Society of Gastroenterology Nurses and Associates, Inc.](#)

[Teens with Crohn's Disease](#)

[Web Resources](#) From [Wide Smiles](#); over 600 cleft-related articles.

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

Consider using the following MeSH (**M**edical **S**ubject **H**eading) terms when doing searches on some of the topics in the above chapters:

Digestive System Surgical Procedures	Digestive System Diseases
Abdomen	Mesentery
Inguinal Canal	Digestive System
Peritoneum	Retroperitoneal Space

specific digestive diseases, such as (this list is not all inclusive):

Diarrhea	Constipation
Gastroesophageal Reflux	Hepatitis
Abdomen, Acute	Vomiting
Abdominal Pain	Peritonitis
Esophagitis	
Esophageal Neoplasms	Head and Neck Neoplasms
Mouth Neoplasms	Laryngeal Neoplasms
Facial Neoplasms	Gingival Neoplasms
Leukoplakia, Oral	Lip Neoplasms
Palatal Neoplasms	Tracheal Neoplasms
Salivary Gland Neoplasms	Tongue Neoplasms
Digestive System	Digestive System Diseases
Intestinal Diseases	Colon

Colorectal Surgery	Rectal Diseases
Colonic Diseases, Functional	Enterocolitis
Gallbladder Diseases	Cholelithiasis
Cholecystectomy	

Digestive System Neoplasms	Gastrointestinal Neoplasms
Biliary Tract Neoplasms	Gallbladder Neoplasms
Stomach Neoplasms	Colonic Neoplasms

Click here for a quick and very focused MEDLINE search on on [inflammatory bowel diseases in children](#). This sample search is performed on the National Library of Medicine's PubMed MEDLINE interface and is limited to articles in English and about humans.

Musculoskeletal System

41. [Structure and Function of the Musculoskeletal System](#)
42. [Alterations of Musculoskeletal Function](#)
43. [Alterations of Musculoskeletal Function in Children](#)

41: Structure and Function of the Musculoskeletal System

[Anatomical Terms and Glossary](#) From the [eSkeletons Project](#). Includes illustrations and animations.

[Anatomy Modules](#) From the Radiology Department of the University of Washington.

[Bone](#) On JayDoc HistoWeb. Copyright University of Kansas Medical Center.

[Bone Densitometry](#) An online audiovisual tutorial from the National Library of Medicine.

[Bones, Joints and Muscles Topics](#) A directory to topical collections of web resources on these topics; from Medline Plus. Includes online tutorials and links to relevant organizations.

[Cartilage](#) On JayDoc HistoWeb. Copyright University of Kansas Medical Center.

[Cells of Connective Tissue](#) On JayDoc HistoWeb. Copyright University of Kansas Medical Center.

[Facial Bone Anatomy](#) Illustrated article from eMedicine.

[The Hosford Muscle Tables: Skeletal Muscles of the Human Body](#) From PT Central. Available online and for downloading in PDF format. Includes: Head and neck; Trunk, front and back; Brachium, antebrachium & hand; and Thigh, leg & foot.

[The Introduction to Muscle Physiology and Design](#) From the University of California, San Diego, [Muscle Physiology Laboratory](#); an extensive, detailed, and well illustrated site.

[Joint Actions of the Upper Limb](#) On Lumen, Loyola University; John A. McNulty, PhD.

[Lumen Learn'em - Bone Box](#) From Loyola University.

[Lumen Learn'em Master Muscle List](#) From Loyola University.

[The Multimedia Musculoskeletal Machine: A practical glossary](#) by Carol C. Teitz, MD, designed by Joan E. Robertson, PhD; and [Musculoskeletal Online](#), a series of multi-media case studies by Carol C. Teitz, MD, designed by Joan E. Robertson, PhD, reprogrammed by Steven Michael Thielke, with images by Robert S. Holmberg. Includes online videos.

[Muscles](#) An online audiovisual tutorial from the National Library of Medicine.

[Muscular System](#) On JayDoc HistoWeb. Copyright University of Kansas Medical Center; illustrations and text.

[A Musculoskeletal Atlas of the Human Body](#) By Carol Teitz, MD, and Dan Graney, PhD. Programming by Joan E. Robertson, PhD, Graphics by Robert Holmberg, MFA.

[Musculoskeletal Imaging Teaching Files](#) From Case Western Reserve and University Hospitals of Cleveland, Department of Radiology.

[Orthopedic Anatomy](#) from the [Southern California Orthopedic Institute](#). There are also sections on [Orthopedic Procedures](#), with basic level information with good graphics and photographs.

[Orthopaedic Patient Education Collection](#) Well illustrated collection of patient education resources, including artificial joint replacement, back problems, cumulative trauma disorders and more; from Medical MultiMedia Group.

[Physical Examination of the Knee](#) On Lumen, Loyola University; Jerold Stirling, MD.

[Range of Motion Exercises](#) An extensive illustrated site from the Oregon and Southwest Washington Chapter of the ALS Association.

[Screening Physical Exam](#) Select the section on **Joints**; by Arcot J. Chandrasekhar, MD, FRCP, FACP, FCCP, Loyola University.

[Shoulder Range of Motion Exercises](#) From the Nicholas Institute of Sports Medicine and Athletic Trauma.

[The Skeletal System](#) Online interactive 'quiz' on skeletal structures; from Dr. James A. Strauss, Pennsylvania State University. Uses photographs of actual skeleton.

[Skull Practical](#) On Lumen, Loyola University; Thackery Gray, PhD.

[3D Musculoskeletal Pathology Atlas](#) All images on this site are © Elliot K. Fishman, MD.

[Your Orthopaedic Connection](#) A consumer site from the American Academy of Orthopedic Surgeons, includes information on wrist sprains.

[Wheeless' Textbook of Orthopaedics](#) Copyright © 1996, C.R. Wheeless, MD.

Journals

[Arthritis Today](#) Tables of contents and selected articles are available full text; some issues require [Adobe Acrobat Reader](#).

[Biomechanics](#) The Magazine of Body Movement and Medicine; selected items are available full text online.

[Orthopaedic Nursing](#) Journal of the National Association of Orthopaedic Nurses - NAON; online articles are available by subscription or pay per item.

[The Physician and Sportsmedicine](#) Contains many articles on disorders of joints and bones, with the full article available online.

[Rheumatology & Musculoskeletal Medicine for Primary Care](#) Open access; each issue focuses on a particular topic; from the American College of Rheumatology.

[Rheumatology News](#) Full-text articles are available to subscribers starting from 2002 to the present. Access to tables of contents is complimentary.

[Seminars in Arthritis and Rheumatism](#) Full-text articles are available to personal subscribers starting from February 2001 to the present; abstracts, references, and PDFs are available from 2000 to the present. Access to tables of contents and abstracts is complimentary.

Agencies and Organizations

[American Academy of Orthopaedic Surgeons](#)

[American Academy of Orthotists and Prosthetists](#)

[American Academy of Physical Medicine and Rehabilitation](#)

[American Association for Hand Surgery](#)

[American Association of Hip and Knee Surgeons](#)

[American Association of Neuromuscular and Electrodiagnostic Medicine](#)

[American Back Society](#)

[American College of Foot and Ankle Orthopedics & Medicine](#)

[American College of Foot and Ankle Surgeons](#)

[American College of Rheumatology](#) This site includes [Treatment Guidelines](#) and [Fact Sheets & Briefing Papers](#) for consumers.

[American College of Sports Medicine](#)

[American Fibromyalgia Syndrome \(FMS\) Association, Inc.](#)

[American Physical Therapy Association](#) The primary resource for information, on education, specific applications and conditions, and more.

[American Podiatric Medical Association](#)

[American Shoulder and Elbow Surgeons](#)

[American Society for Bone and Mineral Research](#)

[American Society for Surgery of the Hand](#)

[American Society of Biomechanics](#)

[American Society of Hand Therapists](#)

[American Sports Medicine Institute](#)

[Arthritis Foundation](#)

[Arthroscopy Association of North America](#)

[Canadian Orthopaedic Nurses Association](#)

[The Hip Society](#)

[International Osteoporosis Foundation](#)

[The Knee Society](#)

[National Association of Orthopaedic Nurses, Inc. - NAON](#)

[National Fibromyalgia Association](#)

[National Institute of Arthritis and Musculoskeletal and Skin Diseases](#) An extensive site with health information, scientific data, and a section on [Health Topics](#) including specific disorders.

[National Osteoporosis Foundation](#)

[Neuromuscular Disease Center](#) Contains sections on a wide variety of disorders, such as Neuropathy, Spinal Cord, Motor Neuron disorders and more; from Washington University School of Medicine, St. Louis.

[The Nicholas Institute of Sports Medicine and Athletic Trauma](#)

[The Paget Foundation](#)

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[Alternative Therapies for Traditional Disease States: Osteoarthritis](#) An online article from *American Family Physician*, January 15, 2003. Includes information on Glucosamine and Chondroitin.

[Athletic Injuries](#) Select a body part to get more information; from the Yale Sports Medicine Center.

[Bone Cancer](#) "oncologist-approved cancer information" from [People Living With Cancer](#), "the patient information website of the American Society of Clinical Oncology (ASCO)".

[Bone Densitometry](#) An online audiovisual tutorial from the National Library of Medicine.

[Care of a Patient in a Cast](#) An online care plan.

[Compartment syndromes and fat embolism](#) Online overview from Surgical Tutor.

[Diagnosis and Management of Osteomyelitis](#) An online article from *American Family Physician*, June 15, 2001.

[Diagnosis and Treatment of Paget's Disease of Bone](#) Online article from *American Family Physician*, May 15, 2002.

[Diagnostic and Therapeutic Injection of the Shoulder Region](#) An online article from *American Family Physician*, March 15, 2003.

[Disease Management of Osteoarthritis](#) An online continuing education article by Karen Gabel Speroni, RN, PhD, from Nursing Spectrum.

[Dr. Pribut's Running Injuries Page](#) By Stephen M. Pribut, DPM, FAAPSM, Podiatric Medicine and Surgery.

[Electronic Textbook of Hand Surgery](#) An extensive site By Charles Eaton, MD.

[Fat Embolism Syndrome Quiz](#) From [Nepean Intensive Care Quiz Pages](#), Nepean Hospital Intensive Care Unit, NSW, Australia.

[Foot Injuries and Disorders](#) Links to online resources from Medline Plus.

[Fractures and Sprains](#) An online tutorial from the National Library of Medicine.

[Ganglion Cysts](#) An interactive online tutorial from the National Library of Medicine.

[Guidelines for Evaluation of Neuromusculoskeletal Disability](#) From the California Industrial Medical Council.

[Interactive Atlas of Signs in Musculoskeletal Radiology](#) By A. Gentili, MD; M. Beller, MD; S. Masih, MD; and L.L. Seeger, MD; UCLA and WLA VAMC Los Angeles, California. An extensive collection of illustrations and text, accessible by site, diagnosis or "sign".

[Knee Arthroscopy](#) An online audiovisual tutorial from the National Library of Medicine.

[Management of Ankle Sprains](#) An extensively illustrated article from *American Family Physician*, January 1, 2001.

[Management of Shoulder Impingement Syndrome and Rotator Cuff Tears](#) An extensively illustrated article from *American Family Physician*, February 15, 1998. Includes a link to a patient education handout.

[Medscape-Orthopaedics](#) Excellent meta-site featuring online journals, articles and news. Registration is required, but free.

[The Multimedia Musculoskeletal Machine: A practical glossary](#) by Carol C. Teitz, MD, designed by Joan E. Robertson, PhD; and [Musculoskeletal Online](#), a series of multi-media case studies by Carol C. Teitz, MD, designed by Joan E. Robertson, PhD, reprogrammed by Steven Michael Thielke, with images by Robert S. Holmberg. Includes online videos.

[Musculoskeletal Disorders and the Workplace: Low Back and Upper Extremities](#) Panel on Musculoskeletal Disorders and the Workplace, Commission on Behavioral and Social Sciences and Education, National Research Council, 512 pages, 2001. Available full text online from the National Academies Press.

[Neuromuscular Disease Center](#) From Washington University School of Medicine, St. Louis.

[Online Library](#) From the *Journal of Prosthetics and Orthotics*, "presented by the American Academy of Orthotists and Prosthetists, as a service to clinicians worldwide".

[ORBD~NRC Osteoporosis and Related Bone Diseases~National Resource Center](#) Supported by the National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health; an extensive site with public and professional information on many disorders of bone.

[Orthopedic Anatomy](#) from the [Southern California Orthopedic Institute](#). There are also sections on [Orthopedic Procedures](#), with basic level information with good graphics and photographs, and a more advanced site - the [SCOI CLASroom](#) (Center for Learning Arthroscopic Skills) - which includes a collection of [online videos](#).

[Osteoarthritis](#) An online audiovisual tutorial from the National Library of Medicine.

[Osteoporosis](#) An online audiovisual tutorial from the National Library of Medicine.

[Osteoporosis: Part I. Evaluation and Assessment](#) An online article from *American Family Physician*, March 1, 2001. Includes a link to a patient information handout.

[Osteoporosis and Bone Physiology Home Page](#) Site maintained by Susan Ott, MD, Associate Professor Department of Medicine, University of Washington. Includes illustrations and animations.

[Osteoporosis in Men](#) Online article from *American Family Physician*, April 1, 2003.

[Osteoporosis Prevention, Diagnosis, and Therapy](#) NIH Consensus Development Program, March 27-29, 2000 Vol. 17, No. 1, full text online.

[Osteosarcoma: A Multidisciplinary Approach to Diagnosis and Treatment](#) An online article from *American Family Physician*, March 15, 2002.

[Problems of the Hand and Wrist](#) From the Division of Workers' Compensation Medical Unit, [Evaluation Guidelines](#), Department of Industrial Relations, State of California.

[Recommendations for the Medical Management of Osteoarthritis of the Hip and Knee](#) American College of Rheumatology Subcommittee on Osteoarthritis Guidelines; full text online. Reprinted from *Arthritis & Rheumatism* Vol. 43, No. 9, September 2000, pg. 1905-1915 © 2000.

[Rotator Cuff Injuries](#) An interactive online tutorial from the National Library of Medicine.

[Shoulder Arthroscopy](#) An online audiovisual tutorial from the National Library of Medicine.

[Tennis Elbow](#) An online audiovisual tutorial from the National Library of Medicine.

[Treating Fibromyalgia](#) Online article from *American Family Physician*, October 1, 2000.

[Treatment of Plantar Fasciitis](#) Illustrated online article from *American Family Physician*, February 1, 2001. Includes a link to a patient education handout.

[Types of Drugs](#) From the online [Drug Guide](#) of the [Arthritis Foundation](#).

[Wheeless' Textbook of Orthopaedics](#) © 1996 to present, by C.R. Wheeless, MD.

[Whonamedit.com](#) A very useful "biographical dictionary of medical eponyms". Check out "Colles Fracture".

[Work Related Musculoskeletal Disorders](#) A NIOSH Fact Sheet.

[Work-Related Musculoskeletal Disorders: A Review of the Evidence Steering Committee for the Workshop on Work-Related Musculoskeletal Injuries: The Research Base](#), Committee on Human Factors, National Research Council 42 pages, 1998. Available full text online from the National Academies Press.

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[ABLEDATA](#) Sponsored by the National Institute on Disability and Rehabilitation Research, US Department of Education; provides evaluations of assistive technology devices; listings of vendors.

[Achondroplasia and Hypochondroplasia: Treatment Indications](#) From the [Maryland Center for Limb Lengthening & Reconstruction \(MCLLR\)](#).

[Adolescent Idiopathic Scoliosis: Review and Current Concepts](#) Online article from *American Family Physician*, July 1, 2001.

[Bright Futures](#) Age-specific guidelines for the physical examination, parent interactions, and more, from prenatal visit through late adolescence (age 21); sponsors include the [Maternal and Child Health Bureau](#), DHHS; [Health Resources and Services Administration](#); [Pfizer's Commitment to Kids](#); [National Center for Education in Maternal and Child Health](#); includes communication issues and specific criteria for pediatric examinations.

[Fortnightly review: The muscular dystrophies](#) Online article by Alan E H Emery, from *BMJ* 1998;317:991-995 (10 October); includes definitions and classifications and illustrations.

[Health Supervision for Children With Turner Syndrome](#) Clinical Report From the American Academy of Pediatrics.

[Musculoskeletal Abnormalities](#) From the *Merck Manual of Diagnosis and Therapy*.

[Orthospine](#) A commercial site from the New York Spine Team: Jean-Pierre C. Farcy, MD, FACS, Frank J. Schwab, MD, Jeffrey D. Klein, MD; contains multiple information sections on many spinal disorders.

[Osteomalacia](#) Extensively illustrated site from the University of Washington. Part of a larger site.

[Pavlik Harness: A Guide for Parents](#) From the Children's & Women's Health Centre of British Columbia.

[Pediatric Foot Notes: A Review of Common Congenital Foot Deformities](#) Online article by Jose F. Jackson, MD, and Stephen J. Stricker, MD, from *International Pediatrics* September 2003.

[Pediatric Radiology and Pediatric Imaging](#) From [PediatricRadiology.com](#), a digital library curated by Michael P. D'Alessandro, MD.

[Pediatric Radiology Teaching Files](#) Written by University of Iowa Radiology Residents and edited by Simon C.S. Kao, MD.

[Prevention of Rickets and Vitamin D Deficiency: New Guidelines for Vitamin D Intake](#) A Clinical Report from the American Academy of Pediatrics, April 2003.

[Questions and Answers about Heritable Disorders of Connective Tissue](#) From the [National Institute of Arthritis and Musculoskeletal and Skin Diseases](#).

[Scoliosis in Children and Adolescents](#) and [Kyphosis \(Curvature of the Spine\)](#) Consumer level information sheets from [Your Orthopaedic Connection](#), a consumer information web site from the American Academy of Orthopaedic Surgeons.

[Screening for Developmental Dysplasia of the Hip](#) An online article by Linda M. French, MD, and Frederick R. Dietz, MD, from *American Family Physician*, July 1999. Includes link to an [illustrated patient education handout](#).

[Skeletal Dysplasias](#) Illustrated review from [Approaches To Differential Diagnosis In Musculoskeletal Imaging](#) by Michael L. Richardson, MD, University of Washington School of Medicine.

[Turner Syndrome](#) Illustrated site from the Genetic Science Learning Center at the Eccles Institute of Human Genetics, University of Utah.

Agencies and Organizations

[American Academy for Cerebral Palsy and Developmental Medicine](#)

[American Arthritis Foundation](#)

[American Juvenile Arthritis Organization](#)

[American Physical Therapy Association Section on Pediatrics](#)

[Arthritis Foundation](#)

[Arthritis Society](#), Canada

[Easter Seal Society](#) National headquarters site.

[Human Growth Foundation](#) For "the parents of children, and adults, who have disorders of growth or growth hormone".

[International Myotonic Dystrophy Organization](#)

[The MAGIC Foundation](#) Information and support for families of children with growth disorders.

[Muscular Dystrophy Association](#)

[Muscular Dystrophy Association of Canada](#)

[National Association of Orthopaedic Nurses, Inc.](#)

[National Institute of Arthritis and Musculoskeletal and Skin Diseases](#)

[National Scoliosis Foundation, Inc.](#)

[Osteogenesis Imperfecta Foundation, Inc.](#)

[Pediatric Orthopaedic Society of North America](#)

[Scoliosis Association, Inc.](#) Family support and information organization open to all. Chapter contacts found under Support Information at the above web site.

[Scoliosis Research Society](#)

[Shriners Hospitals for Children](#)

[United Cerebral Palsy](#)

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

MEDLINE uses the heading "Wounds and Injuries" for trauma, and specific headings, such as Fractures or Fractures, Stress.

Consider using the following MeSH (**M**edical **S**ubject **H**eading) terms when doing searches on some of the topics in the above chapters:

Wheelchairs	Locomotion
Arthritis, Juvenile Rheumatoid	Scoliosis
Athletic Injuries	Spinal Diseases
Arthritis	Leg Length Inequality
Arthrodesis	Bone Diseases
Crutches	Osteomyelitis
Sprain	Strains
Cast	Traction
Orthopedic Equipment	Range of Motion, Articular
Gait	Wound Healing

and the term Sports, or names of specific sports.

You can use the subheading **injury (in)** with specific orthopedic sites. The sample search below is for [knee joint injuries](#) and was run using the subheading knee joint/in. There is also a specific heading for knee injuries that you can combine with knee joint . To perform a comprehensive search, use both. This search is performed on the National Library of Medicines PubMed MEDLINE interface and is limited to articles in English.

Integumentary Sysytem

44. [Structure, Function and Disorders of the Integument](#)
 45. [Alterations of the Integument in Children](#)

44: Structure, Function and Disorders of the Integument

[Acne](#) An interactive online tutorial from the National Library of Medicine.

[AcneNet](#) "A collaborative effort between Roche Laboratories, Inc. and the American Academy of Dermatology". Other sites available from the American Academy of Dermatology are: [SkinCancerNet](#); [PsoriasisNet](#); [EczemaNet](#); [AgingSkinNet](#); and [ActinicKeratosisNet](#).

[Actinic Keratosis](#) From the [Dermatology Image Bank](#) © John L. Bezzant, MD.

[Aging and the Skin](#) From the *Merck Manual of Geriatrics*.

[Anatomy and Histology of the Skin](#) By Jason R. Swanson and Jeffrey L. Melton, MD, Loyola University; this extensive site includes the skin and appendages.

[Caring for Wounds and Pressure Ulcers](#) Online continuing education program from the University of Florida; part of a larger program [Health Management for Older Adults](#). Includes audio presentations.

[Cellulitis](#) A collection of links to web resources from Medline Plus.

[Common Bacterial Skin Infections](#) Illustrated online article from *American Family Physician*, July 1, 2002.

[Common Benign Skin Tumors](#) Illustrated online article from *American Family Physician*, February 15, 2003.

[Dermatologic Image Database](#) An extensive collection of images from the Department of Dermatology, University of Iowa College of Medicine.

[Dermatophyte Infections](#) Illustrated online article from *American Family Physician*, January 1, 2003.

[DermIS - Dermatology Internet Service](#) From the Friedrich-Alexander-University of Erlangen-Nürnberg, School of Medicine, Department of Dermatology; includes lectures, cases, links to other WWW sites, and gateway to [DermIS - DOIA Dermatology Online Atlas](#).

[DermPathTutor © - Tutorial in Diagnosis](#) By Mary Seabury Stone, MD, and Thomas L. Ray, MD, University of Iowa; site also links to a dictionary and collection of images.

[Diabetic Foot Ulcers: Pathogenesis and Management](#) Online article by Robert G. Frykberg, DPM, MPH; from *American Family Physician*, November 1, 2002.

[Diagnosis and Management of Common Tinea Infections](#) Online article from *American Family Physician*, July 1998.

[Electronic Textbook of Dermatology](#) From the [Internet Dermatology Society](#); includes a separate section on dermatology and [Diabetes](#).

[Epithelia](#) From JayDoc HistoWeb, Copyright University of Kansas Medical Center; illustrations and text.

[Emergency Preparedness and Response](#) Site from the Centers for Disease Control and Prevention that includes information on bioterrorism agents such as [Anthrax](#).

[Exercise-Induced Anaphylaxis and Urticaria](#) An online article from *American Family Physician*, October 15, 2001.

[Fixed Drug Eruption](#), [Fixed drug eruption, bullous](#), and [Drug Allergies](#) Illustrations and text from the Medical Encyclopedia, Medline Plus.

[Hives](#) A collection of web resources from Medline Plus.

[Impetigo](#) Information and illustrations from [Dermnet](#), New Zealand Dermatological Society.

[Integumentary Assessment](#) By Peg Gray; a slide presentation; emphasis is on the nails.

[Integumentary System](#) From JayDoc HistoWeb, Copyright University of Kansas Medical Center; illustrations and text.

[Kinetic Concepts, Inc.](#) (KCI) Sites includes a wound management reference guide; and [online education modules](#) on pressure ulcers.

[Lumen Learn'em - Cutaneous Innervation](#) An interactive learning program from Loyola University.

[Management of Herpes Zoster \(Shingles\) and Postherpetic Neuralgia](#) An online article from *American Family Physician*, April 15, 2000.

[Melanoma.com](#) From the Schering Corporation.

[Melanoma](#) An interactive online tutorial from the National Library of Medicine.

[National Skin Cancer Prevention Education Program](#) from the CDC, full-text, with many statistics.

[Occupational Dermatoses](#) A collection of slides from the National Institute of Occupational Safety and Health - NIOSH.

[Pressure Sores: Five reviews](#) From [Bandolier: Evidence-Based Health Care](#), a periodical of the United Kingdom NHS R&D Directorate.

[Psoriasis](#) Links to online resources from Medline Plus.

[Rosacea](#) A collection of links to web resources from Medline Plus.

[Rosacea: A Common, Yet Commonly Overlooked, Condition](#) An illustrated online article from *American Family Physician*, August 1, 2002.

[Scabies](#) An interactive online tutorial from the National Library of Medicine.

[Scabies](#) From the Centers for Disease Control and Prevention, [DPDx](#) site for parasitic diseases.

[Screening Physical Exam](#) Select the section on **Skin**; by Arcot J. Chandrasekhar, MD, FRCP, FACP, FCCP; from Loyola University.

[Skin and Skin Structure Infections](#) A PowerPoint presentation by Alex Rakowsky, MD, from the FDA server.

[Skin and Wound Infections: An Overview](#) An illustrated online article by Michael L. O'Dell, MD, from *American Family Physician*, May 15, 1998.

[Skin Cancer](#) An interactive online tutorial from the National Library of Medicine.

[Skin Cancer and Benign Tumor Image Atlas](#) From Loyola University; edited by Jeffrey L. Melton, MD, and Jason R. Swanson, BA.

[Skin Conditions](#) and [Skin, Hair, and Nails](#) Topical directories to collections of web resources from Medline Plus.

[Sunlight, Ultraviolet Radiation, and the Skin](#) National Institutes of Health Consensus Development Conference Statement May 8-10, 1989, full text online.

[Symposium on Troublesome Skin Problems](#) A four article series from *Postgraduate Medicine*, June 2000. Includes [Alopecia areata](#) and [Acute and chronic herpes zoster](#).

[Topical Therapy for Acne](#) An online article by John J. Russell, MD, from *American Family Physician*, January 15, 2000.

[Topical Treatment of Common Superficial Tinea Infections](#) Online article from *American Family Physician*, May 15, 2002.

[Venous Stasis Ulcers](#) Information about Venous Stasis Ulcers, complete with images and descriptions. From the [Dermatology Image Bank](#), by John L. Bezzant, MD, Knowledge Weavers, Spencer S. Eccles Health Sciences Library, Utah.

[Wound Care Information Network](#)

Journals

[Advances in Skin & Wound Care](#) (formerly *Advances in Wound Care*); some items available full-text online.

[Dermatology Online Journal](#)

[Journal of the American Academy of Dermatology](#) The official journal of [The American Academy of Dermatology](#). Full-text articles are available to AAD members and personal subscribers starting from 1997 to the present; abstracts, references, and PDFs are available from 1995 to the present; and tables of contents and abstracts are available from 1979 to the present. Access to tables of contents and abstracts is complimentary.

[Skin and Allergy News](#) Full-text articles are available to subscribers starting from 2001 to the present. Access to tables of contents is complimentary.

[World Wide Wounds](#) The Electronic Journal of Wound Management Practice.

Agencies and Organizations

[American Academy of Dermatology](#) This is an extensive site that includes patient and professional information covering many topics.

[American Academy of Facial Plastic & Reconstructive Surgery](#)

[American Society of Plastic Surgical Nurses, Inc.](#)

[Dermatology Foundation](#)

[Dermatology Nurses Association](#)

[International Rosacea Foundation](#)

[National Institute of Arthritis and Musculoskeletal and Skin Diseases](#)

[National Psoriasis Foundation](#)

[National Rosacea Society](#)

[Skin Cancer Foundation](#)

[Stevens Johnson Syndrome Foundation](#)

[United Ostomy Association, Inc.](#)

[Wound Care Institute Inc.](#)

[Wound, Ostomy and Continence Nurses Society - WOCN](#)

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[Albinism](#) From KidsHealth.

[Common Bacterial Skin Infections](#) Illustrated online article from *American Family Physician*, July 1, 2002.

[Diaper Rash](#) How To Treat An Age-Old Problem; from Alexian Brothers Medical Center.

[DPDx Identification and Diagnosis of Parasites of Public Health Concern](#) From the Centers for Disease Control & Prevention, National Center for Infectious Diseases, Division of Parasitic Diseases. Includes an image library and information on diagnostic procedures.

[HeadLice.org](#) Site of the The National Pediculosis Association®, Inc.

[Head Lice Infestation](#) From the Division of Parasitic Diseases, Centers for Disease Control and Prevention.

[Head Lice](#)A collection of web resources from Medline Plus.

[Head Lice Information](#) A statement from Richard J. Pollack, PhD, Harvard School of Public Health. Includes flowchart of management procedures.

[Head Lice](#) Illustrations and text from the Medical Encyclopedia, Medline Plus.

[Impetigo](#) Information and illustrations from Dermnet, New Zealand Dermatological Society.

[National Immunization Program](#) and [2005 Childhood Immunization Schedule](#), includes formats for downloading; from the CDC.

[Nevus Outreach, Inc.](#) A non-profit organization dedicated to improving awareness and finding a cure for congenital nevi and neurocutaneous melanosis.

[Pediculosis Clinical Resources](#) and [Pediculosis Patient/Family Resources](#) A selection of web resources from the Rural Nurse Organization.

[Poison Ivy, Oak and Sumac Information Center](#) Includes links to related pages.

[Scabies](#) From KidsHealth.

[Skin Pigmentation Disorders](#) A collection of links to web resources from Medline Plus.

[Sunlight, Ultraviolet Radiation, and the Skin](#) National Institutes of Health Consensus Development Conference Statement, May 8-10, 1989; full text online.

[Tinea Capitis](#) By Bruce E. Strober, MD, PhD, from *Dermatology Online Journal* 7(1): 12.

[Tinea capitis and Tinea favosa](#) Text and illustration from the [doctor fungus](#) web site.

[Tinea Infections](#) Collection of web resources from Medline Plus.

Journals

[Journal of Pediatric Health Care](#) Full-text articles are available to NAPNAP members and personal subscribers starting from 2000 to the present; Abstracts, References, and PDFs are available from 1996 to the present. Access to tables of contents and abstracts is complimentary.

[Pediatric Pharmacotherapy](#) "A Monthly Review for Health Care Professionals" from the Children's Medical Center, University of Virginia.

Agencies and Organizations

[American Academy of Dermatology](#) This site includes patient and professional information covering many topics.

[American Academy of Facial Plastic & Reconstructive Surgery](#)

[American Society of Plastic Surgical Nurses, Inc.](#)

[National Institute of Arthritis and Musculoskeletal and Skin Diseases](#)

[National Organization for Albinism and Hypopigmentation](#)

[National Pediculosis Association](#)

[National Psoriasis Foundation](#)

[Nevus Outreach, Inc.](#) "A non-profit organization dedicated to improving awareness and finding a cure for Congenital Nevi and Neurocutaneous Melanosis".

[PedsCCM: Pediatric Critical Care Nursing, Society for Critical Care Medicine](#)

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

Consider using the following MeSH (**M**edical **S**ubject **H**eading) terms when doing searches on some of the topics in the above chapters:

Skin Diseases	Skin
Dermatology (the profession)	Hair
Skin Manifestations (of other diseases)	Hair Diseases
Sebaceous Gland Diseases	Sweat Gland Diseases
Pigmentation Disorders	Skin Ulcer

or specific headings for skin, nail, or hair diseases, such as:

Alopecia	Dermatitis
Acneiform Eruptions	Hand Dermatoses

Other MEDLINE subject headings related to skin diseases are: Decubitus Ulcer and Burns.

Click here for a brief search on [skin manifestations of systemic diseases](#). This search, performed on the National Library of Medicine's PubMed interface to MEDLINE, is limited to articles in English, about humans.

Shock, MODS, and Burns

46. [Shock, Multiple Organ Dysfunction Syndrome, and Burns in Adults](#)
 47. [Shock, Multiple Organ Dysfunction Syndrome, and Burns in Children](#)

46: Shock, Multiple Organ Dysfunction Syndrome, and Burns in Adults

[Ambulatory Management of Burns](#) An illustrated online article from *American Family Physician*, November 1, 2000. Includes links to two patient handouts on this topic.

[Assessment and Initial Care of Burn Patients](#) Full text online standard from the American College of Surgeons; requires Adobe Acrobat Reader to view or print.

[Burns](#) Online audiovisual program from the National Library of Medicine.

[Burns](#) A collection of links to web resources from Medline Plus. Includes links on treatment and prevention.

[Burns](#) Information from the Medical Encyclopedia, Medline Plus. Includes illustrations of first, second and third degree burns.

[The Diagnosis and Treatment of Hemorrhagic Shock](#) by Dr. IH Wilson and DR. PJF Baskett, an article in *Update in Anaesthesia*.

[Fluid Resuscitation: State of the Science for Treating Combat Casualties and Civilian Injuries](#) By the Committee on Fluid Resuscitation for Combat Casualties, Institute of Medicine; 208 pages, 1999. Full-text online from the National Academy Press.

[Practice Parameters for Hemodynamic Support of Sepsis in Adult Patients](#) Guideline from the Society of Critical Care Medicine.

[Shock: Emergency Medicine](#) By Mark A. Graber, MD; from the *University of Iowa Family Practice Handbook*, 4th edition.

[Thermal Burns](#) Includes sections on [Calculation of Percentage of Burned Area](#), and [Management and Monitoring of the Burned Patient](#); from *EDUBRIEFS in CCTC* From the the Critical Care Trauma Centre of the London Health Sciences Centre.

[B.C. Professional Firefighter's Burn Fund: The Burn Survivor Resource on the Web](#) This site includes personal stories of survivors, information on burns, and more; some pages are still under construction.

[Burns, Cold, and Thermal Injury](#) By Mark A. Graber, MD, from Virtual Hospital, *University of Iowa Family Practice Handbook*, 4th Edition.

[University of Chicago Lightning Injury Research Program](#) Extensive site with many full text online resources.

Journals

[Advances in Skin and Wound Care](#) Selected articles are available full text online, others are available for online purchase.

[Infection Control Today](#) On-line archive back to May 2000; from Virgo Publishing.

[*Internet Journal of Emergency and Intensive Care Medicine*](#)

[*Journal of the American Academy of Dermatology*](#) The official journal of [The American Academy of Dermatology](#). Full-text articles are available to AAD members and personal subscribers starting from 1997 to the present; abstracts, references, and PDFs are available from 1995 to the present; and tables of contents and abstracts are available from 1979 to the present. Access to tables of contents and abstracts is complimentary.

[*World Wide Wounds*](#) "The premier online resource for dressing materials and practical wound management information "; an Internet-only electronic journal.

[*Wound Repair and Regeneration*](#) "the official publication of The Wound Healing Society, the European Tissue Repair Society, the Japanese Society for Wound Healing, and the Australian Wound Management Association". Tables of contents are available online.

Agencies and Organizations

[American Academy of Facial Plastic & Reconstructive Surgery](#)

[American Association for the Surgery of Trauma](#)

[American Association of Critical Care Nurses](#)

[American Burn Association](#)

[American College of Emergency Physicians \(ACEP\)](#)

[American Red Cross](#)

[American Society of Plastic Surgical Nurses](#)

[American Trauma Society](#)

[Association of Air Medical Services](#)

[Association of Emergency Physicians](#)

[Association of Rehabilitation Nurses](#)

[The Burn Institute](#)

[Burn Survivors Online](#) Providing "information and support for burn survivors and their families throughout the world".

[Dermatology Nurses Association \(DNA\)](#)

[Emergency Nurses Association \(ENA\)](#)

[National Association of Emergency Medical Technicians](#)

[The Nicholas Institute of Sports Medicine and Athletic Trauma](#)

[National Institute of Arthritis and Musculoskeletal and Skin Diseases](#)

[The Phoenix Society for Burn Survivors, Inc.](#)

[Society for Academic Emergency Medicine](#)

[The Society of Chest Pain Centers and Providers](#)

[Society of Critical Care Medicine](#)

[Society of Trauma Nurses](#)

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[Beyond Indigo](#) An extensive site with connections to support groups, information on the loss of a child, and on how children react to grief.

[ElectricAirway: Upper Airway Problems in Children](#) By Donna M. D'Alessandro, MD, Department of Pediatrics Children's Memorial Hospital Northwestern University Medical School Chicago, IL and Michael P. D'Alessandro, MD; from The Virtual Hospital.

[Emergency Medical Services for Children \(EMSC\)](#) A national initiative designed to reduce child and youth disability and death due to severe illness or injury; a very extensive site with information on policy, for families, and for professionals.

[Ethics and the Care of Critically Ill Infants and Children](#) Policy Statement of the American Academy of Pediatrics.

[FACES Pain Rating Scale](#) By Donna Wong, nurse consultant, and Connie Morain Baker, at the [Wong On Web](#) site.

[Guidelines on Forgoing Life-Sustaining Medical Treatment](#) From the American Academy of Pediatrics.

[Harriet Lane WWW Links](#) Formerly Pediatric Points of Interest; provides "an edited collection of pediatric resources (over 6200 links) on the World Wide Web. Maintained and edited by physicians at the Johns Hopkins University".

[Managing the Pain & Consequences of Pediatric Burns](#) Full-text article in JEMS.COM By Teresa Merk, RN, BSN, CMTE.

[OnLine Pediatric Surgery Handbook for Residents and Medical Students](#) An extensive online text from [Pediatric Surgery Update](#), Humberto Lugo-Vicente, MD, editor, Professor of Pediatric Surgery University of Puerto Rico, School of Medicine.

[Pediatric Emergency Preparedness in the Office](#) Online article from *American Family Physician*, June 1, 2000.

[PedsCCM: The Pediatric Critical Care Website](#) Includes a separate section [PedsCCM: Pediatric Critical Care Nursing, Society for Critical Care Medicine](#).

[Software for Pediatric Critical Care](#) At Washington University; has several useful programs including a Pediatric Transport database and a bedside drug list creator.

Journals

[Hygeia](#) A "journal for parenthood lost and a global community for perinatal health, loss and bereavement created by Michael R. Berman, MD"; includes resources for families with critically ill children.

[*Infectious Diseases in Children*](#) Requires registration, but is free.

[*Journal of Pediatric Health Care*](#) Full-text articles are available to NAPNAP members and personal subscribers starting from 2000 to the present; Abstracts, References, and PDFs are available from 1996 to the present. Access to tables of contents and abstracts is complimentary.

[*Journal of Pediatrics*](#) Full-text articles are available to personal subscribers starting from 1994 to the present. Access to tables of contents and abstracts is complimentary.

[*Pediatric Surgery Update*](#) Humberto Lugo-Vicente, MD, editor, Professor of Pediatric Surgery University of Puerto Rico, School of Medicine; open online access.

Agencies and Organizations

[American Academy of Pediatrics](#) Within the Professional Education section, there is a list of reviewed Internet resources in more than 20 subspecialties.

[American Pediatric Surgical Association](#)

[American Pediatric Surgical Nurses Association](#)

[Brave Kids](#) Online site for children with chronic or life threatening illnesses.

[British Association of Paediatric Surgeons](#)

[Canadian Association of Paediatric Surgeons](#)

[International Shrine Headquarters](#) The Shriners maintain hospitals for children who have suffered burns.

[National Association of Pediatric Nurse Practitioners](#)

[National Institute of Child Health and Human Development](#)

[Office of Rare Diseases](#) From the National Institutes of Health.

[PedsCCM: Pediatric Critical Care Nursing, Society for Critical Care Medicine](#)

[Society of Pediatric Nurses](#)

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

Consider using the following MeSH (Consider using the following MeSH (**M**edical **S**ubject **H**eading) terms when doing searches on some of the topics in the above chapters:

Shock Shock, Septic

Shock, Cardiogenic Shock, Surgical

Shock, Hemorrhagic Shock, Traumatic
Hemorrhage

Burns Burns, Chemical

Burns, Inhalation Burns, Electric

Smoke Inhalation Eye Burns
Injury

Sunburn

Click here for a quick and very focused MEDLINE search on [diagnosis of septic shock](#). This sample search is performed on the National Library of Medicine's PubMed MEDLINE interface. It is limited to articles in English.

These are some of the evidence based databases that are worth searching for any given topic:

[AGREE Collaboration](#)

[Attract](#)

[Bandolier](#)

[Centre for Evidence Based Nursing](#)

[Centre for Reviews and Dissemination](#)

[Clinical Knowledge Summaries](#)

[Cochrane Collection](#)

[Combined Health Information Database](#)

[Evidence Based Nursing](#)

[Joanna Briggs Institute](#)

[National Guideline Clearinghouse](#)

[National Library for Health](#)

[Primary Care Question Answering Service](#)

[TRIP - Turning Research Into Practice](#)

[Canadian Agency for Drugs and Technologies in Health \(CADTH\)](#)

[GAC Recommended Clinical Practice Guidelines](#)

[FPIN - Family Practice Inquiries Network](#)

[Canadian Task Force on Preventive Health Care](#)

[Scottish Intercollegiate Guidelines Network \(SIGN\)](#)

[U.S. Preventive Services Task Force \(USPSTF\)](#)

[PedsCCM Evidence Based Journal Club](#)

[DARE Database - University of York Center for Reviews and Dissemination](#)

[NHS Health Technology Assessment Programme](#)

[Center For Clinical Effectiveness - Monash University](#)

[Canadian Cochrane Network and Centre](#)

[Royal College of Obstetricians and Gynaecologists](#)

[Toward Optimized Practice \(TOP\)](#)

[Cancer Care Ontario PEBC](#)

[Clinical Evidence](#)

[Eastern Association for the Surgery of Trauma](#)

[Intute: Health and Life Sciences](#)

[Cochrane Skin Group](#)

[Cincinnati Children's Hospital Medical Center](#)

[National Health and Medical Research Council - Australian Government](#)

Patient Oriented Evidence that Matters

Patient oriented evidence that matters (POEMs) can be found in several locations:

- [PJ Online](#)
- [SUMSearch](#)
- [PrimeAnswers](#)
- [Journal of Family Practice POEMs](#)

Optional Chapter Resources

The Cell

Unit I: The Cell

1. [Cellular Biology](#)
2. [Altered Cellular and Tissue Biology](#)
3. [The Cellular Environment: Fluids and Electrolytes, Acids and Bases](#)

1: Cellular Biology

[The Antibody Resource Page](#) A meta-site maintained by featuring links to commercial antibody suppliers and an online gallery of antibodies.

[Atlas of Microscopic Anatomy: A Functional Approach: Companion to Histology and Neuroanatomy](#) Second Edition, by Ronald A. Bergman, PhD, Adel K. Afifi, MD, and Paul M. Heidger, Jr, PhD. Creation date: 1999. Last revision date: 1999. From the Virtual Hospital, University of Iowa. [Section 1: Cells.](#)

[The Biology Project: Cell Biology](#) Also available in [Spanish](#), this site includes Problem Sets & Tutorials by William J. Grimes and Denice K. Warren, University of Arizona, on:

[The Cell Cycle & Mitosis Tutorial](#); requires the [QuickTime](#) plug-in; [Studying Cells Tutorial](#); [Meiosis Tutorial](#); [Prokaryotes, Eukaryotes, & Viruses](#); [The Cytoskeleton](#).

[Cell and Molecular Biology Lessons](#) From Loyola University.

[Cell Biology Topics](#) A site developed by Dr. Gwen Childs; includes cell dynamics, membranes, and much more. Includes [Medical Cell Biology 2005](#) lectures handouts and animated slide sets.

[Cells: Origins](#); [Transport In and Out of Cells](#); and [Cellular Organization](#) In the [Online Biology Book](#) by M. J. Farabee, Maricopa Community College.

[CELLS alive!](#) Requires the [QuickTime](#) plug-in in order to view many animations and actual films.

[Cellular energetics: harvesting chemical energy](#) A PowerPoint Presentation by Dr. Ed Byard, University of Winnepeg.

[Clinical Case Computer Tutorials in Biochemistry](#) From the University of Manitoba.

[Educational Resources](#) From the [Biophysical Society](#). Includes resources on Molecular Structures, Biophysical Techniques, and Biophysical Mechanisms.

[MIT - Biology Hypertextbook](#) From the Experimental Study Group, Massachusetts Institute of Technology, Copyright © 1996, 1997, 1998. Includes a separate chapter on [Cell Biology](#) and on [Glycolysis and the Krebs Cycle](#).

[Net Biochem](#) Includes medical topics, animated and still graphics, and tables, by James Baggott, PhD, and Sharon E. Dennis, MS. "Portions of NetBiochem were created by the Knowledge Weavers with support from National Library of Medicine, Grant #1 G08 LM05684-01A1, "A Model Multimedia Support Center for the Health Sciences."

[Play the Control of the Cell Cycle Game](#) Interactive site from the Nobel Prize web site, presented with the support of Aventis.

[Signal Animation](#) From the University of Washington.

[STKE: Signal Transduction Knowledge Environment](#) A web meta-site from the [American Association for the Advancement of Science](#) and the Board of Trustees of the Leland Stanford Junior University. Access to some items requires subscription.

[The Vault Website](#) "Written by L. Rome in Macromedia Dreamweaver and designed by Jordan Rome and Marc Roseboro in the UCLA Advanced Research Computing Facility." Includes links to researchers and publications.

[Virtual Cell](#) "A collection of still images, texts and movies covering the structure and functioning of a typical plant cell."

[The Virtual Cell](#) Includes an audio pronunciation guide. This site is "a multidisciplinary collaboration between students in Science, Computer Graphics, and World Language Classes at Coyle and Cassidy High School in Taunton Massachusetts."

[Virtual Library of Biochemistry and Cell Biology](#) Directory to web resources from the WWW Virtual Library project; maintained by Gabriel Fenteany.

Databases

[CS ChemFinder](#) A searchable online database of chemicals from different sources on the World Wide Web.

Journals

[Cell](#) As of January 2005, articles 12 months old or older and dating back to content from 1995, will be available for free online.

[Clinical Chemistry](#) Published by the [American Association for Clinical Chemistry](#). Stanford University Libraries' HighWire Press ® assists in the publication of Clinical Chemistry Online.

Agencies and Organizations

[American Society for Biochemistry and Molecular Biology](#)

[Association of Biomolecular Resource Facilities](#)

[Federation of American Societies for Experimental Biology - FASEB](#)

[National Resource for Cell Analysis and Modeling](#)

[NIH Cell Biology Interest Group](#)

[National Institutes of Health Center for Molecular Modeling](#)

[Society for Developmental Biology](#)

2: Altered Cellular and Tissue Biology

[Animated degradation and transport of antigens that bind major histocompatibility complex \(MHC\) class II molecules](#) One of several animations available from the [Expert Reviews in Molecular Medicine](#) site, Cambridge University Press.

[Apoptosis](#) An illustrated overview from [Kimball's Biology Pages](#).

[Cell Injury](#) Online resources by Robin R. Jones, MD, PhD (University of Arkansas for Medical Sciences) from the [learningmodules.net](#) web site, a site incorporating the "National Library of Medicine's Basic Medical Pathology videodisc series ... by the Pathology Education Instructional Resource of the University of Alabama at Birmingham." Includes streaming videos and online tests. Topics covered include: Cell Injury, Necrosis, Cellular Alterations and Adaptations, Cellular Accumulations, Acute Inflammation I: Exudates and Phagocytosis, Acute Inflammation II: Chemical Mediators and Types of Exudates, Chronic Inflammation and Wound Healing, Hemodynamics and Fluid Disturbances: Edema, Congestion, and Shock, Thrombosis, Embolism, and Infarction, Neoplasia I: Nomenclature and Benign vs. Malignant States, and Neoplasia II: Metastasis and Differentiation.

[Cellular Injury Index](#) Histologic illustrations and explanatory text from the Internet Pathology Laboratory.

[Chemicals and Human Health](#) Problem sets and tutorials on toxicology and lung toxicology; University of Arizona.

[Environmental Tobacco Smoke](#) Position Statement from the American Nurses Association.

[Electromagnetic Fields](#) Information links from Medline Plus.

[EMFRAPID - Electric and Magnetic Fields Research and Public Information Dissemination Program](#) Home From the National Institute of Environmental Health Sciences.

[Heat Wave Index and Safety Information](#) Information for the National Oceanic & Atmospheric Administration - NOAA.

[How do intracellular proteolytic systems change with age?](#) By Ana Maria Cuervo and J. Fred Dice, Department of Physiology, Tufts University School of Medicine, Boston, Mass, USA. Received 12/5/97; accepted 12/9/97 - *Frontiers in Bioscience* 3, p 25-43, January 1, 1998; full-text online.

[Injury Fact Book 2001-2002](#) From the National Center for Injury Prevention and Control.

[Lead Poisoning](#) Factsheet from the National Safety Council.

[Life Tables](#) Vital Statistics of the United States, Volume II, Mortality, Part A, Section 6 contains life tables. This section is also issued annually as a separate publication. The life tables provide life expectancy data; specific tables require Adobe Acrobat Reader for viewing.

[Methyl Mercury Poisoning — A Public Health Menace](#) A Self-Study Module by Rosalyn Feller Scherf, RNC; from *Nursing Spectrum*.

[Mold](#) Information on health effects of mold in the environment from [National Center for Environmental Health](#), the Centers for Disease Control and Prevention.

[MSDS collection](#) From SIRI - Safety Information Resources Inc.

[Neoplasia Index](#) Histologic illustrations and explanatory text and diagrams from the Internet Pathology Laboratory.

[Nutritional and Metabolic Diseases](#) From the [Genes and Disease](#), an online textbook from the National Center for Biotechnology Information, National Library of Medicine.

[Pesticides in the Diets of Infants and Children](#) By the Committee on Pesticides in the Diets of Infants and Children, National Research Council 408 pages, 1993. Available full-text online from the National Academies Press.

[The Plain English Guide to the Clean Air Act](#) From the Environmental Protection Agency.

[Rebuilding the Unity of Health and the Environment: A New Vision of Environmental Health for the 21st Century](#) (2001) A full-text online book from National Academies Press, 96 pages.

[Specialized Information Services](#) Gateway to the TOXNET and Toxline databases and Chemical information resources from the National Library of Medicine.

[Case Teaching Notes](#) for "Stem Cells: Promises to Keep?" by Lauren E. Yaich, Department of Natural Sciences University of Pittsburgh at Bradford. Provides a good overview, with illustrations.

[ToxFAQs](#) Frequently asked questions about contaminants found at hazardous waste sites; from the [Agency for Toxic Substances and Disease Registry](#).

Journals

Agencies and Organizations

[Agency for Toxic Substances and Disease Registry - ATSDR](#) "For [hazardous chemical fact sheets](#) and information on pesticides."

[American College of Occupational and Environmental Medicine](#)

[American Federation for Aging Research](#)

[American Lung Association](#)

[American Society for Clinical Pathology](#)

[Association for Molecular Pathology](#)

[Environmental Mutagen Society](#)

[Environmental Protection Agency - EPA](#)

[International Cell Death Society](#)

[National Center for Environmental Health](#) from the Centers of Disease Control and Prevention. "Provides expertise in environmental pesticide surveillance and disease outbreak investigations."

[National Institute of Environmental Health Sciences - NIEHS](#)

[National Institutes of Health - NIH](#) Includes the [Mad as a Hatter -- NIH Mercury Abatement Program](#) and National Toxicology Program.
[National Toxicology Program](#) U.S.

- 3: The Cellular Environment: Fluids and Electrolytes, Acids and Bases
- [Acid-Base Tutorial](#) By Alan W. Grogono, MB, BS, MD, FRCA.
 - [Acid-Base Physiology](#) Extensive site by Kerry Brandis.
 - [Disorders of Water, Electrolytes and Acid-Base](#) Section I of the Schrier Atlas of Diseases of the Kidney online version; materials require Adobe Acrobat Reader to view.
 - [Electrolyte Balance](#) A student project from McGill University that includes a glossary and case studies.
 - [Fluid and Electrolyte - Clinical Pathway](#) by Jon Scheinman, MD; online interactive quiz from the University of Kansas Medical Center.
 - [Fluid & Electrolyte Balance Summary](#) A chart from [Renal Biochemistry](#) By Dr Charles McEvoy.
 - [Fluid Physiology](#) An extensive site by Kerry Brandis.
 - [Fluid Resuscitation: State of the Science for Treating Combat Casualties and Civilian Injuries](#) By the Committee on Fluid Resuscitation for Combat Casualties, Institute of Medicine; 208 pages, 1999. Full-text online from the National Academies Press.
 - [Fluids & Electrolytes](#) Slide set by Mary Bennett, DNSc, RN, Assistant Dean, Indiana State University School of Nursing.
 - [General, Organic and Biochemistry](#) A complete online book, copyright (C) 1997-2005 James K. Hardy and Brooks/Cole Publishing Company. Please respect copyright restrictions.
 - [Heat and Hydration](#) From SportsMed Web.
 - [Hyponatremia and Hypernatremia in the Elderly](#) An online article from American Family Physician, June 15, 2000.
 - [Interpretation of ABGs: Acid - Base Balance A Four Step Method](#) An online course by Mark Guinan, RN, CCRN.
 - [Maintaining the Internal Seas in Harmony: Common Electrolyte Disturbances in the ED](#) By Tom Trimble, RN.
 - [Metabolic Acidosis](#) By Karen L Stavile, MD, coauthored by Richard Sinert, DO; from [eMedicine World Medical Library](#).
 - [Nephrogenic Diabetes Insipidus](#) From the NDI Foundation.
 - [A Step-wise approach to Acid-Base disorders](#) Online article from Postgraduate Medicine.
 - [Water, Electrolytes, Renal and Acid-Base](#) From the [Virtual Anaesthesia Textbook](#).

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

Consider using the following MeSH (Medical Subject Heading) terms when doing searches on some of the topics in the above chapters:

Anatomy
Body Composition
Body Fluid Compartments
Physiology
Homeostasis
Electrolytes
Acid-Base Equilibrium
Acid-Base Imbalance

Histology
Physiological Processes
Body Fluids
Monitoring, Physiologic
Longevity
Homeostasis
Water-Electrolyte Balance
Water-Electrolyte Imbalance

Click here for a quick and very focused MEDLINE search on immunity and the [cell cycle](#). This sample search is performed on the National Library of Medicine's PubMed MEDLINE interface. It is limited to articles in English.

Genes and Genetic Diseases

4. [Genes and Genetic Diseases](#)
5. [Genes, Environment-Lifestyle, and Common Diseases](#)

4: Genes and Genetic Diseases

[Bloodlines: Technology Hits Home](#) Companion web site to the PBS program. Includes extensive links to other web resources and an interactive map on state and federal laws related to genetic and reproductive technologies; from the Corporation for Public Broadcasting.

[Cracking the Code of Life](#) Companion web site to a PBS broadcast aired on April 17, 2001. Includes interactive animated learning activities.

[DNA From the Beginning](#) "An animated primer on the basics of DNS, genes, and Heredity" from Cold Spring Harbor Laboratory.

[DNA Interactive](#) Extensive site with animations from Cold Spring Harbor Laboratory.

[DNA Structure, Replication, Transcription, and Protein Synthesis](#)

Educational site "constructed by Yvette Petty, Visiting Assistant Professor, New Century College at George Mason University, with animation by Steve Roberson."

[Exploring Genes & Genetic Disorders](#) "A Companion Guide to the Human Genome Landmarks Poster"; includes information on specific disorders, bioinformatics tools for studying genetics and genetic diseases, and "Gene and Genetic Disease Profiles"; from the Oak Ridge National Laboratory. Provides an extensive directory to other web resources.

[A Gene Map of the Human Genome](#) From the National Library of Medicine, 1996.

[GeneTests/GeneClinics](#) "a clinical information resource relating genetic testing to the diagnosis, management, and genetic counseling of individuals and families with specific inherited disorders. Funded by the National Library of Medicine, National Human Genome Research Institute, National Cancer Institute, and Office of Rare Diseases of the NIH. Administrative support from University of Washington, Seattle." Includes information on specific disorders.

[Gene Therapy: Molecular Bandage?](#) interactive learning site from the Genetic Science Learning Center at the Eccles Institute of Human Genetics, University of Utah.

[Generational Health](#) This "site is an important tool that can help you trace your family's medical history and become better informed about health conditions that may affect your own health and that of your loved ones" by guiding you through the development of a family health tree. Sponsored by Pfizer.

Genes and Disease: A "collection of articles that discuss genes and the diseases that they cause"; an extensive and searchable site from the [Bookshelf](#) of the National Center for Biotechnology Information, U.S. National Library of Medicine. Other online books available include [Genomes](#) 2nd ed., and [Human Molecular Genetics 2](#) 2nd ed.

[Genetic and Rare Conditions Site](#) From the University of Kansas Medical Center; provides links to support groups and information on genetically inherited disorders.

[The Genetic Code and Crack the Code Game](#) Interactive site from the Nobel Prize web site.

[Genetic Science Learning Center](#) at the Eccles Institute of Human Genetics, University of Utah.

[Genetics](#) A hypertextbook from Colorado State University. Contains sections on cytogenetics, chromosomal disorders, and DNA testing.

[Genetics - The Virtual Library](#) A metasite collection of links on genetic topics.

[Genetics Education Center](#) From the University of Kansas Medical Center. Includes many interactive illustrated activities.

[GenLink: A human genetics resource](#) From Washington University St. Louis; includes links to resources, including Human Meiotic Maps.

[Genome Database](#) Hosted by RTI International.

[Genomics and Its Impact on Medicine and Society: A 2003 Primer](#) Was originally prepared by Denise Casey (Human Genome Management Information System - Oak Ridge National Laboratory) 1991-92 and modified for Web access by Dan Jacobson. One of many resources available from the [Department of Energy \(DOE\) Human Genome Program](#).

[Glossary of Genetic Terms](#) From the [National Human Genome Research Institute](#). This is a "talking" glossary to assist users in learning proper pronunciations.

[Human Embryology](#) Version 5.7 © M.A. Hill, 2005. This site by Dr. Mark Hill contains many online movies and images; requires the Quicktime plug-in; detailed and extensive illustrated site, both from the University of New South Wales, Australia.

[Human Genome Project Education Resources](#) From the National Human Genome Research Institute.

[Hypertextbook Mendelian Genetics](#) and [Central Dogma](#) in the [MIT Hypertextbook of Biology](#).

[Medical Genetics](#) Companion site to the Mosby textbook *Medical Genetics*, 2nd edition by Lynn B. Jorde, PhD; John C. Carey, MD; Michael J. Bamshad, MD; and Raymond L. White, PhD. Includes online test questions and a collections of [Photographs](#) of specific disorders.

[Molecular Biology - Problem Sets and Tutorials](#) From the University of Arizona; includes Nucleic Acids, Recombinant DNA, and Eukaryotic Gene Expression.

[OMIM™, Online Mendelian Inheritance in Man](#) A searchable database on genetic diseases; includes clinical synopsis, extended historical information on syndromes, and links to current literature searches.

[Practice-Based Genetics Curriculum for Nurse Educators](#) A sample chapter from the modules available is online; from the [Foundation for Blood Research](#).

[Promoting Safe and Effective Genetic Testing in the U.S.](#) Final Report of the Task Force on Genetic Testing; edited by Neil A. Holtzman, MD, MPH, and Michael S. Watson, PhD, September 1997, National Institutes of Health.

[Putting DNA to work](#) Videos and information programs that include sections on inherited and infectious diseases; from the Marian Koshland Science Museum of the National Academy of Sciences.

[Sex Determination: Evolution of the Y Chromosome](#) From the Howard Hughes Medical Institute. There is also an interactive resource center on [Genomics and Chemical Genetics](#).

[Understanding Gene Testing](#) From the National Institutes of Health.

[Understanding Genetics](#) Scroll down to locate the interactive online program and calculator *What Color Eyes Will Your Children Have?* from this extensive site by the Tech Museum of Innovation, San Jose.

[Webcasts --Online Audio and Video Files about Genetics and the Human Genome Project](#) Includes April 2003 Scientific Symposium: From Double Helix to Human Sequence - and Beyond; and The DNA Files.

[Your Genes Your Health](#) "A multimedia guide to genetic disorders". Copyright Dolan DNA Learning Center, Cold Spring Harbor Laboratory.

Journals

[American Journal of Human Genetics - Electronic Edition](#) Tables of contents and abstracts are available online; full-text articles are available by subscription.

[Archives of Disease in Childhood: Fetal and Neonatal Edition](#) Tables of Contents, abstracts, and selected items are available full-text online; access to articles online is available by subscription.

[Early Human Development](#) Full-text articles are available from 1997 to the present. Access to the site is complimentary for a limited time.

Agencies and Organizations

[American Academy of Pediatrics, Committee on Genetics](#) Includes links to current policy statements and informational sites.

[American Board of Genetic Counseling](#)

[American College of Medical Genetics](#) Includes [Policy Statements](#).

[American Society for Histocompatibility and Immunogenetics](#)

[American Society of Human Genetics](#)

[Canadian College of Medical Geneticists](#)

[Council for Responsible Genetics](#)

[Genetic Alliance](#) "A dynamic coalition of consumers and professionals to promote the interests of children, adults and families living with genetic conditions."

[Genetic/Rare Conditions Support Groups & Information](#) From the University of Kansas Medical Center.

[Genetics and Public Policy Center](#) Includes research on public attitudes.

[Genetics Society of America](#)

[Howard Hughes Medical Institute](#)

[International Society of Nurses in Genetics - ISONG](#)

[Mountain States Genetics Network - MoSt GeNe](#)

[National Center for Birth Defects and Developmental Disabilities](#) An extensive site from the Centers for Disease Control.

[National Center for Genome Resources](#) a "non-profit, bioinformatics research center".

[National Center for Toxicogenomics](#) of the [National Institute of Environmental Health Sciences](#).

[National Coalition for Health Professional Education in Genetics](#)

[National Human Genome Research Institute](#)

[National Society of Genetic Counselors, Inc.](#)

[National Taskforce for Newborn Screening and Genetic Resource Center](#)

[Office of Biotechnology Activities, National Institutes of Health](#)

[Office of Genomics and Disease Prevention](#) of the Centers for Disease Control and Prevention - CDC; available in English and [Spanish](#). This site is part of [HuGENet™](#), "a global collaboration of individuals and organizations who develop and communicate epidemiologic information on the human genome", which includes a journal club, case studies, and literature database.

[Secretary's Advisory Committee on Genetics, Health, and Society](#) NIH

5: Genes, Environment-Lifestyle, and Common Diseases

[Cancer and the Environment: Gene-Environment Interactions](#) Full text online from the National Academies Press, 166 pages, 2002.

[Cancer Genome Anatomy Project](#) From the National Library of Medicine; under "[A Conceptual Tour](#)" you will find a 'slide show' on the cellular basis of cancer.

[Carcinogenic Potency Project](#) Includes database. From the University of California, Berkeley.

[Chemicals and Human Health](#) Problem sets and tutorials on toxicology and lung toxicology; University of Arizona.

[Chromosomal Abnormalities: An Introduction to Common Gross Defects of Human Chromosomes](#) By Dennis O'Neil, PhD, Palomar College, San Marcos, California; an online tutorial.

[Cytogenetics Gallery](#) Microscopic illustrations of chromosomes and chromosome abnormalities; from the University of Washington.

[Dioxins and Furans](#) from the [Persistent Bioaccumulative and Toxic \(PBT\) Chemical Program](#) of the Environmental Protection Agency.

[Drinking Water and Disease: What Every Health Provider Should Know](#)

Online instructional program "presented by the American College of Preventive Medicine and Physicians for Social Responsibility".

[Embryonic Development](#) Slide illustrations from the "[Babies and Birth Defects: A Mystery in Texas](#)" educational module "designed to teach

middle school and high school students about epidemiology, neural tube birth defects, and folic acid" from the CDC's National Center on Birth Defects and Developmental Disabilities (NCBDDD); includes illustration of neural tube defect development.

[Evaluating Chemical and Other Agent Exposures for Reproductive and Developmental Toxicity](#)

Subcommittee on Reproductive and Developmental Toxicity, Committee on Toxicology, Board on Environmental Studies and Toxicology, National Research Council; 262 pages, 2001. Available full-text online from the National Academies Press.

[Fetal Alcohol Syndrome and Alcohol-Related Neurodevelopmental Disorders](#)

From the American Academy of Pediatrics, Policy Statement, Committee on Substance Abuse and Committee on Children With Disabilities, August, 2000.

[Health and Behavior: The Interplay of Biological, Behavioral, and Societal Influences](#)

Committee on Health and Behavior: Research, Practice and Policy, Board on Neuroscience and Behavioral Health; 400 pages, 2001. Available full-text online from the National Academies Press.

[Healthy People 2010 & Environmental Health](#) "A resource page compiled by the Public Health Foundation - PHF, with assistance from the Agency for Toxic Substances and Disease Registry - ATSDR, the National Center for Environmental Health - NCEH, the National Institute of Environmental Health Sciences - NIEHS, and the Office of Disease Prevention and Health Promotion - ODPHP."

[Human Gene Mutation Database at the Institute of Medical Genetics in Cardiff](#)

[From Neurons to Neighborhoods: The Science of Early Childhood Development](#)

Jack P. Shonkoff and Deborah A. Phillips, Editors; Committee on Integrating the Science of Early Childhood Development, Board on Children, Youth, and Families; 612 pages, 2000. Available full-text online from the National Academies Press.

[Nutritional and Metabolic Diseases](#)

From the [Genes and Disease](#), an online textbook from the National Center for Biotechnology Information, National Library of Medicine.

[OMIM™ Online Mendelian Inheritance in Man](#) An extensive database of genetically related disorders, including links to gene maps, and MEDLINE references.

[The Practical Guide: Identification, Evaluation, and Treatment of Overweight and Obesity in Adults](#) Order information and access to online versions of this 1998 report from the National Heart, Lung, and Blood Institute - NHLBI. Other related resources from the NHLBI include [Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults](#) 2003, and [OEI Treatment Guidelines Implementation Tool for Palm OS and PocketPC 2003 Devices](#).

[Preventing and Controlling Cancer: The Nation's Second Leading Cause of Death](#) Information from the National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention.

[ToxFAQs](#) Frequently asked questions about contaminants found at hazardous waste sites; from the [Agency for Toxic Substances and Disease Registry](#).

[The Tumor Gene Database](#) From Baylor College of Medicine.

Agencies and Organizations

[American Society for Histocompatibility and Immunogenetics](#)

[Cellular, Tissue and Gene Therapies Advisory Committee \(Formerly Biological Response Modifiers Advisory Committee\)](#) of the Food and Drug Administration.

[The National Human Genome Research Institute](#) The mission of this National Institute is "to develop and apply tools in statistics, genetics, and computer science to locate genes that contribute to multifactorial genetic disease."

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

Consider using the following MeSH (**M**edical **S**ubject **H**eading) terms when doing searches on some of the topics in the above chapters:

Aged	Genetics
Genes	Extrachromosomal Inheritance

Genetics, Behavioral	Genetics, Biochemical
Genetics, Medical	Genetic Counseling
Genotype	Genome
Cytogenetics	Genetic Techniques
Cloning, Organism	Gene Therapy

You can also use the subheading **genetics (ge)** and combine it with specific subjects. Example: Using the PubMed MEDLINE interface from the National Library of Medicine type: breast neoplasms/ge. This retrieves articles about breast cancer and genetics.

Click here for a quick and very focused MEDLINE search on [breast cancer and genetics](#). This sample search is performed on the National Library of Medicine's PubMed MEDLINE interface. It is limited to articles in English about humans.

Cell Proliferation: Cancer

Cellular Proliferation: Cancer

11. [Biology of Cancer](#)
12. [Tumor Invasion and Metastasis](#)
13. [Cancer in Children](#)

11: Biology of Cancer

[American Cancer Society: Statistics](#) Reports for previous years are also available.

[Biological Therapies for Cancer](#) From the National Cancer Institute.

[Canadian Cancer Statistics](#) From [Health Canada](#).

[Cancer and the Environment: Gene-Environment Interactions](#) Full-text online from the National Academies Press; 166 pages, 2002.

[Cancer Genome Anatomy Project](#) From the National Library of Medicine; under "[A Conceptual Tour](#)" you will find a 'slide show' on the cellular basis of cancer.

[Cancer Health Disparities: Fact Sheet](#) From the National Cancer Institute.

[Cancer Prevention and Early Detection: Facts and Figures 2004](#) Online publication from the [American Cancer Society](#)

[CancerQuest](#) A site from Emory University designed to teach the biology of cancer.

[Cancer Research, UK](#) Includes statistics for the UK.

[CancerSymptoms.org](#) A web site developed by [The Oncology Nursing Society](#) designed to provide resources to patients about cancer fatigue and other symptoms of cancer and cancer treatment, and information on how to cope with them.

[Cancers](#) A directory to topical collections of web resources on these topics; from Medline Plus. Includes online tutorials and links to relevant organizations.

[Carcinogenic Potency Project](#) Includes database. From the University of California, Berkeley; includes information related to pesticides in food.

[Dioxins and Furans](#) from the [Persistent Bioaccumulative and Toxic \(PBT\) Chemical Program](#) of the Environmental Protection Agency.

[Electromagnetic Fields](#) Information links from Medline Plus.

[EMFRAPID - Electric and Magnetic Fields Research and Public Information Dissemination Program](#) Home From the National Institute of Environmental Health Sciences.

[Environmental Tobacco Smoke](#) Position Statement from the American Nurses Association.

[Exposure Assessment Models](#) From the [Environmental Protection Agency](#).

[Exposure Risk for Health Care Professionals in the Handling and Administration of Chemotherapy Agents](#) By Mary Ann Ritchie, RN, PhD; and Cathy McAdams, MSN, CPNP and Nancy Fritz, RN, BSN; an Online Continuing Education Program: Case Study from the Sigma Theta Tau International, Honor Society of Nursing.

[Food, Nutrition and the Prevention of Cancer](#) Information from the University of Idaho, Department of Food Science and Toxicology, with excerpts from the American Institute for Cancer Research and the World Cancer Research Fund 1997 publication, *Food, Nutrition and the Prevention of Cancer: a Global Perspective*.

[Labeling for Combined Oral Contraceptives](#) From the U.S. Food and Drug Administration.

[Hypothalamic Hormones and Cancer](#) Online article from *Frontiers in Neuroendocrinology* 2001.

[Increased Risk of Ovarian Cancer is Linked to Estrogen Replacement Therapy](#) A summary of the research article from *JAMA*, July 17, 2002, in News from the NCI, from the National Cancer Institute.

[Neoplasia Index](#) Histologic illustrations and explanatory text and diagrams from the Internet Pathology Laboratory.

[Neoplasia: Tumor-Host Interrelations: Clinical Relevance](#) By Robert C. Mellors, MD, PhD. Includes illustrations.

[NCI-designated Cancer Centers \(P30\) Cancer Centers](#) Listed by State.

[Preventing and Controlling Cancer: The Nation's Second Leading Cause of Death](#) Information from the National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention.

[Report on Carcinogens](#) From the U.S. Department of Health and Human Services, Public Health Service, National Toxicology Program.

[SEER](#) Surveillance, Epidemiology and End Results, a program from the National Cancer Institute. Includes a separate, extensive [training site](#) that includes anatomical reviews of different organ systems, case studies, and a self-study unit on basic anatomy, complete with online quizzes.

[Telomerase as a cancer marker](#) Consumer level information from the American Federation for Aging Research.

[Tobacco Information and Prevention Source \(TIPS\)](#) from the Office on Smoking and Health, Centers for Disease Control and Prevention. Includes [statistical reports](#), guidelines, related reports, and much more.

[ToxFAQs™](#) From the Agency for Toxic Substances and Disease Registry; "Answers are provided to the most frequently asked questions (FAQs)

about exposure to hazardous substances found around hazardous waste sites and the effects of exposure on human health."

[A Tumor Atlas](#) An extensive site from Frontiers in Bioscience. Includes information on diagnostic tests by type of neoplasia, interactive staging forms, images and more.

[The Tumor Gene Database](#) From Baylor College of Medicine.

[What You Need to Know](#) A series from the National Cancer Institute that covers many different types of cancers, designed for patients and families.

Databases

The [National Cancer Institute](#) has many full text documents, and online [Cancer Literature](#) resources. This site includes a dictionary, information on treatment options for specific types of cancer, resources and literature, and the [bibliographic database](#). Some materials are available in English and Spanish.

[OncoLink](#) From the University of Pennsylvania Cancer Center.

[Tumor Gene Database/Breast Cancer Gene Database](#) From Baylor College of Medicine.

[CancerWEB: CancerNET, UK](#) Includes PDQ summary statements.

[TOXNET](#) Bibliographic databases related to toxic effects of environmental or drug poisoning and toxic effects.

Journals

[CA - A Cancer Journal for Clinicians](#) Issues are available online from 1999 to the present.

[Cancer Cell](#) As of January 2005, articles 12 months old or older and dating back to content from 1995, will be available for free online.

[Cancer News on the Net](#) News items on therapies and research.

[Cancer Nursing](#) Abstracts are available online; full-text is available by purchase.

[Clinical Journal of Oncology Nursing](#) A publication of the [Oncology Nursing Society](#). Tables of contents and abstracts are available online; full-text access is available by subscription or membership.

[*JNCI Cancer Spectrum*](#) Publication from the National Cancer Institute. Abstracts are available online; full-text access is available by subscription.

[M. D. Anderson *Oncolog*](#)

[*Oncology Nursing Forum*](#) A publication of the Oncology Nursing Society. Tables of contents and abstracts are available online; full access to articles is available to society members and subscribers. [Online Exclusive](#) articles are available full-text online.

[*Seminars in Oncology Nursing*](#) Full-text articles are available from 1998 to the present. Access to abstracts is complimentary. Access to full text is limited to print subscribers.

Agencies and Organizations

[Agency for Toxic Substances and Disease Registry - ATSDR](#) "For hazardous chemical fact sheets and information on pesticides."

[American Association for Cancer Research](#)

[American Cancer Society](#) Includes a section on [Food and Fitness](#) for prevention, and a section on [Nutrition for Cancer Patients](#).

[American Institute for Cancer Research](#)

[American Nurses Association](#) and the [RNNoHarm](#) web site which deals with adverse occupational exposures and environmental pollution issues.

[American Society for Therapeutic Radiology and Oncology](#)

[American Society of Clinical Oncology](#)

[Association of Cancer Online Resources](#)

[Cancer Information and Support International](#)

[Cancer Research and Biostatistics - CRAB](#) A "non-profit organization whose purpose is to help conquer cancer through the application of biostatistical principles and methods".

[Cancer Treatment Centers of America](#)

[Fred Hutchinson Cancer Research Center](#)

[International Union Against Cancer - GLOBALink](#)

[M.D. Anderson Cancer Center](#) University of Texas.

[Memorial Sloan-Kettering Cancer Center](#)

[National Coalition for Cancer Survivorship](#)

[National Cancer Institute-NCI](#)

[North American Association of Central Cancer Registries](#)

[Oncology Nursing Society](#) Extraordinary resource with online education resources, articles, and links to specialty pages related to cancer and cancer treatment.

12: Tumor Invasion and Metastasis

[Administration of High Dose Chemotherapy Protocol](#) A module on nursing care from the Bone Marrow Transplantation Program, Duke University Medical Center.

[American College of Physicians Home Care Guide for Advanced Cancer](#) "For family, friends, and hospice workers caring for persons with advanced cancer at home, when quality of life is the primary goal", full text online.

[Biological Therapies for Cancer](#) From the National Cancer Institute.

[Cancer Symptoms.org](#) A web site developed by [The Oncology Nursing Society](#) for cancer patients and their caregivers.

[Chemotherapy: Treating Cancer](#) Peer Review Status: Internally Reviewed by Cancer Center Staff, University of Iowa Cancer Center, Virtual Hospital. Creation Date: 1993, Last Revision Date: 1996. This is an extensive site, with many sections.

[Exposure Risk for Health Care Professionals in the Handling and Administration of Chemotherapy Agents](#) By Mary Ann Ritchie, RN, PhD; and Cathy McAdams, MSN, CPNP and Nancy Fritz, RN, BSN; an Online Continuing Education Program: Case Study from the Sigma Theta Tau International, Honor Society of Nursing.

13: Cancer in Children

[American Cancer Society: Statistics](#) Reports for previous years are also available.

[Caring for Young Persons with Cancer at Home](#) Peter S. Houts, PhD, Editor; the Web version of this homecare guide was made possible through a grant from The Four Diamonds Fund at the Penn State University.

[Childhood Cancers](#) From Cancer GeneticsWeb.

[Childhood Cancers Home Page](#) From the National Cancer Institute.

[Children's Cancer Web](#) "A Guide to Internet Resources for Childhood Cancer".

[Children's Unique Vulnerability to Environmental Toxins](#) A summary report from the [Center for Children's Health and the Environment](#).

[FACES Pain Rating Scale](#) By Donna Wong, a nurse consultant, and Connie Morain Baker, at the [Wong On Web](#) site.

[Growth House](#) An award winning site on grief, end-of-life issues, and terminal illness in all age groups.

[Guidelines on Forgoing Life-Sustaining Medical Treatment](#) From the American Academy of Pediatrics.

[Integrated Pest Management \(IPM\) in Schools: Protecting Children in Schools from Pests and Pesticides](#) From the Environmental Protection Agency.

[PedsCCM: Pediatric Critical Care Medicine](#)

[Pediatric Hematology/Oncology Patient Education Resources](#) From Penn State Milton S. Hershey Medical Center ©2000.

[Pesticides in the Diets of Infants and Children](#) By the Committee on Pesticides in the Diets of Infants and Children, National Research Council; 408 pages, 1993. Available full text online from the National Academy Press.

[Cancer Incidence and Survival among Children and Adolescents: United States SEER Program 1975-1995](#) From [SEER](#), Surveillance, Epidemiology and End Results, a program from the National Cancer Institute.

[Wong On Web](#) An extensive resource featuring Donna Wong, PhD, RN, PNP, CPN, FAAN; includes procedures, special sections on pediatric pain, and more.

Journals

[*Journal of Pediatric Health Care*](#) Full-text articles are available to NAPNAP members and personal subscribers starting from 2000 to the present; Abstracts, References, and PDFs are available from 1996 to the present. Access to tables of contents and abstracts is complimentary.

[*Pediatric Pharmacotherapy*](#) "A Monthly Review for Health Care Professionals" from the Children's Medical Center, University of Virginia.

Agencies and Organizations

[American Cancer Society](#)

[American Pediatric Surgical Nurses Association](#)

[American Society of Pediatric Hematology/Oncology](#)

[Association of Pediatric Oncology Nurses](#)

[Brave Kids](#) Online site for children with chronic or life threatening illnesses.

[The Candlelighters Childhood Cancer Foundation®](#)

[Candlelighters Childhood Cancer Foundation of Canada](#)

[Children's Brain Tumor Foundation](#)

[Children's Hospice International](#)

[Children's Oncology Group](#)

[Corporate Angel Network](#) Nonprofit organization that coordinates free air transportation for ambulatory cancer patients traveling to and from treatment, checkups, and consultations.

[German Childhood Cancer Registry](#)

[Hospice and Palliative Nurses Association](#)

[Leukemia Lymphoma Society](#) Offers information and support to patients with leukemia, Hodgkin's disease, and lymphoma. Includes a special section on [Pediatric Cancer](#).

[Make-A-Wish Foundation of America](#) Grants wishes to children with life-threatening illnesses.

[National Children's Leukemia Foundation](#)

[Pediatric Oncology Branch, National Cancer Institute](#)

[Ronald McDonald House Charities](#) Provides housing near treatment centers for children with life-threatening diseases and their families.

[Sunshine Kids Foundation](#) A non-profit foundation for children with cancer.

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

Consider using the following MeSH (**M**edical **S**ubject **H**eadings) when doing searches on topics in this unit:

MEDLINE uses the term 'neoplasms' instead of cancer, and that term in combination with histologic type or body site for specific cancers - examples are:

Brain Neoplasms	Glioblastoma
Bone Neoplasms	Carcinoma, Squamous Cell
Adenocarcinoma	Osteosarcoma
Lung Neoplasms	Carcinoma, Bronchogenic

consider also:

Antineoplastic Agents Radiotherapy and specific types of radiotherapy, such as:
Brachytherapy

There is a subheading for radiotherapy - rt; this can be used in combination with other headings for very specific searches.

Example: breast neoplasms/rt. However, actual headings allow more precision in some cases, such as the heading radiotherapy, adjuvant.

Special MEDLINE Tip: You can use the subheading 'secondary' - **sc**- to search for articles on metastasis. **Breast Neoplasms/sc** will retrieve articles on **metastatic breast cancer**.

Click here for a quick and very focused MEDLINE search on [metastatic breast cancer](#). This sample search is performed on the National Library of Medicine's PubMed MEDLINE interface. It is limited to articles in English.

Neurologic System

The Neurologic System

14. [Structure and Function of the Neurologic System](#)
15. [Pain, Temperature Regulation, Sleep, and Sensory Function](#)
16. [Concepts of Neurologic Dysfunction](#)
17. [Disorders of Neurologic Function](#)
18. [Neurobiology of Schizophrenia, Mood Disorders, and Anxiety Disorders](#)
19. [Alterations of Neurologic Function in Children](#)

14: Structure and Function of the Neurologic System

[Brain Functions and Map](#) By Robert P. Lehr Jr., Ph.D. Professor Emeritus, Department of Anatomy, School of Medicine, Southern Illinois University. Scroll down to the brain image and click on different sections of the brain to review brain functions; from the [Centre for Neuro Skills](#), a multi-site brain injury rehabilitation company. Check out the Multi-Media Center for sample videos on brain injury.

[Brain Matters](#) A consumer education site from the American Academy of Neurology Education and Research Foundation.

[Dana BrainWeb](#) An extensive site from the [Dana family of organizations](#) that includes information on Memory, Alzheimer's Disease, Head Injuries, Stroke, Parkinson's Disease and more.

[Nervous System](#) Histologic images on JayDoc HistoWeb, Copyright University of Kansas Medical Center.

[Neuroanatomy Tutorial - Labelled Images](#) An online illustrated tutorial from the Internet Pathology Laboratory.

[Neuroland](#) A meta-site from Charles Tuen, MD. Neurology information for physicians and health professionals. Includes links to best neuro sites, online free access to books journals, practice hints, images, nursing links, neuropathology images. Academic excellence award winning web site.

[Neuron: Computer Simulations](#) From Duke University, by Michael L. Hines and John L. Moore. Includes intracellular buffering, diffusion, and reactions membrane channels, pumps, exchangers temporal and spatial synaptic integration impulse propagation synaptic transmission networks of cells.

[NeuroAnatomy Pathology on the Internet](#) Copyright by Katalin Hegedüs. A comprehensive list of links to online lectures, textbooks, and tutorials related to neuroanatomy, neuropathology, neurology. Contains excellent links to sites explaining neurological [signs and symptoms](#) from A (Adie's tonic pupil) to W (Weakness).

[The Neuroanatomy Lab](#) Includes Atlases and Brain Sections.

[Neurosciences on the Internet](#) Edited and maintained by Neil A. Busis, MD. Copyright © by Neil A. Busis, MD. All rights reserved. A massive collection of links to other sites.

[Online Neuropathology Atlas](#) An extensive illustrated site by Prof. Katalin Hegedüs, Hungary.

[Sex Differences in the Brain](#) "Men and women display patterns of behavioral and cognitive differences that reflect varying hormonal influences on brain development". An online article by Doreen Kimura, from the special edition of *Scientific American* "[The Hidden Mind](#)", May 13, 2002.

[Spinal Cord 101](#) An online overview of the spinal cord and spinal cord injury from the [Spinal Cord Injury Resource Center](#).

[Types of Neurons](#) From [Explore the Brain and Spinal Cord](#), University of Washington, Seattle. Illustrated site with a sense of humor - includes [Chocolate and the Nervous System](#).

[Whole Brain Atlas](#) By Keith A. Johnson, MD, and J. Alex Becker; an exceptional site with extensive illustrations and even movies. Images are also grouped by specific disorders such as Stroke, Brain Tumors, Degenerative Diseases, and Infectious or Inflammatory Diseases. Also includes excellent MRI views of the normal and diseased human brain and Harvard Medical School lecture notes on brain diseases.

Journals

[Brain Pathology](#) Official journal of the International Society of Neuropathology. Selected items are available in PDF format full-text online.

[Brainwaves](#) Newsletter from Johns Hopkins University.

[Journal of Clinical Neuroscience](#) The official journal of [Neurosurgical Society of Australasia](#), the [Australian Association of Neurologists](#), the [Australian and New Zealand Society for Neuropathology](#), the Taiwan Neurosurgical Society, and the Asian/ Australian Society of Neurological Surgeons.

[The Journal of Neuroscience Online](#) Tables of contents, abstracts, and selected items are available online; full access requires subscription; from the Society for Neuroscience.

Agencies and Organizations

[American Academy of Neurology](#) Includes fact sheets on many disorders.

[American Association of Neurological Surgeons](#)

[American Association of Neuropathologists](#)

[American Association of Neuroscience Nurses](#)

[American Neurological Association](#)

[Association of University Professors of Neurology](#)

[Australian and New Zealand Society for Neuropathology](#)

[European Federation of Neurological Societies](#)

[International Society of Neuropathology](#)

[National Institute of Neurological Disorders and Stroke](#)

[Office of Rare Diseases](#) of the National Institutes of Health; includes a [Rare Diseases Terms](#).

[Society for Neuroscience](#)

[World Federation of Neurosurgical Societies](#)

15: Pain, Temperature Regulation, Sleep, and Sensory Function

Pain

[ABC of complementary medicine: Acupuncture](#) By Andrew Vickers, Catherine Zollman. *BMJ* 1999;319:973-976 (9 October).

[Assessing Pain In Older Adults](#) By Ellen Flahaerty, RN, MSN, GNP, PhD (cand.). An online article from [Try This](#), a newsletter from the [John A. Hartford Foundation, Institute for Geriatric Nursing](#).

[Assessment and Management of Acute Pain in Infants, Children, and Adolescents](#) Policy Statement from the American Academy of Pediatrics, 2001.

[Bay Area Pain Medical Associates](#), Mill Valley, California. Click on the [Animations](#) button to see the presentations.

[Cancer Pain](#) From the American College of Physicians [Home Care Guide for Advanced Cancer](#).

[Cancer Symptoms](#) A special Web site sponsored and maintained by the [Oncology Nursing Society](#).

[Challenges in Pain Management at the End of Life](#) Online article by Karl E. Miller, MD, Martha M. Miller, RN, CRNH, and Monica R. Jolley, PharmD, *American Family Physician*, October 1, 2001.

March 22, 1999.

[Effects of Patient-Controlled Music Therapy During Coronary Angiography on Procedural Pain and Anxiety Distress Syndrome](#) An online article by Kathy Bally, Debbie Campbell, Kathy Chesnick, and Joan E. Tranmer; from *Critical Care Nurse*, April 2003, vol. 23, no.2.

[Efficacy of Cold for Pain: Fact or Fallacy?](#) An Online Continuing Education Program article by Jenny Sauls, RNC, DSN, from Sigma Theta Tau International.

[FACES Pain Rating Scale](#) By Donna Wong, a nurse consultant, and Connie Morain Baker, at the [Wong On Web](#) site.

[Federal and State Regulation of Opioids](#) From the University of Wisconsin. [Headache](#) and [Migraine](#) Information from [Medline Plus](#).

[How to Help Patients Manage Pain](#) By Charlotte Huff, February 6, 1998, [NurseWeek](#).

[IASP Pain Terminology](#) From the [International Association for the Study of Pain](#). Excerpted from Classification of Chronic Pain, second edition, IASP Task Force on Taxonomy. Edited by H. Merskey and N. Bogduk, IASP Press, Seattle, Copyright © 1994, pp. 209-214.

[Identifying Pain in the Hospice Patient](#) Online continuing education materials by Camille A. Servodidio, RN, MPH, CRNO & Ellen Williams, RN, MA; from Nursing Spectrum.

[Improving the Quality of Pain Assessment Through Research Utilization](#) An Online Continuing Education Program article by Janice K. Janken, RN, PhD, from Sigma Theta Tau International.

[Integration of Behavioral and Relaxation Approaches Into the Treatment of Chronic Pain and Insomnia](#) NIH State of the Science Statement (formerly known as Technology Assessment Conference Statement), October 16-18, 1995.

[Management of the Acute Migraine Headache](#) Online article by Glen Aukerman, MD, Doug Knutson, MD, and William F. Miser, MD, MA, from *American Family Physician*, December 1, 2002.

[Pain Control: A Guide for People with Cancer and Their Families](#) From the National Cancer Institute.

[Pain Management in Critical Care: Practices and Predictors of Analgesic Interventions for Adults Undergoing Painful Procedures](#) Online continuing education article by Kathleen A. Puntillo, Lorie Rietman Wild, Ann Bonham Morris, Julie Stanik-Hutt, Carol Lynn Thompson, and Cheri White; from the *American Journal of Critical Care*, September 2002.

[Pain management—Continuum of care for surgical patients](#) Home Study Program, from *AORN Journal*, September 2003, vol. 78, no. 3, full-text online.

[Paint Your Pain](#) An interactive chart for patients to indicate location and characteristics of their pain. Available online from the [Pain Pathways](#) consumer site, a detailed illustration from [AnaesthesiaUK](#) "an educational site with training resources for anaesthetic professionals."

[Peripheral nerve blocks for postoperative analgesia](#) Home Study Program, full-text online article from *AORN Journal*, January 2002, vol. 75, no. 1.

[Nerve Block Techniques](#) From the [New York School of Regional Anesthesia](#).

[Relief of Pain and Suffering](#) An exhibit covering many theories and scientific discoveries from UCLA.

[Sedation and analgesia in intensive care: Medications attenuate stress response in critical illness](#) An online article by Amy R. Blanchard, MD, from a Symposium on [Critical Care](#) in *Postgraduate Medicine*, February, 2002.

[A Virtual Pocket Dictionary of Pain Terms](#) From the International Association for the Study of Pain.

[World Health Organization Analgesic Ladder Approach For Relief of Cancer Pain](#) From [Cancer Symptoms.org](#).

Journals

[Chiropractic Online Today](#)

[European Journal of Pain](#) Contents and abstracts are available online; full access requires subscription.

[Innovations in End-of-Life Care](#) Archival file of an online bi-monthly journal with peer-reviewed examples of end-of-life care. Last updated April 30th, 2002.

[International Journal of Obstetric Anesthesia](#) Official journal of the [Obstetric Anaesthetists' Association - OAA](#). Tables of contents & abstracts are available online; full access to articles requires subscriptions.

[Journal of PeriAnesthesia Nursing](#) Official Journal of the American Society of PeriAnesthesia Nurses. Full-text articles are available to ASPAN members and personal subscribers starting from 2001 to the present; abstracts, references, and PDFs are available from 1996 to the present. Access to tables of contents and abstracts is complimentary.

[Pain Management Nursing](#) Official Journal of the American Society for Pain Management Nursing. Full-text articles are available to ASPMN members and personal subscribers starting from 2000 to the present. Access to tables of contents and abstracts is complimentary.

[Pediatric Pain Letter](#): Abstracts and Commentaries on Pain in Infants, Children, and Adolescents From the The Pediatric Pain Research Lab, Dalhousie University, Canada.

[Regional Anesthesia and Pain Medicine](#) Official Publication of the American, European, Asian and Oceanic, and Latin American Societies of Regional Anesthesia. Full-text articles are available to ASRA, ESRA, and personal subscribers starting from 2000 to the present; tables of contents

and abstracts are available from 1997 to the present. Access to tables of contents and abstracts is complimentary.

[Techniques in Regional Anesthesia and Pain Management](#) Full-text articles are available to personal subscribers starting from 2000 to the present. Access to tables of contents and abstracts is complimentary.

Agencies and Organizations

[American Academy of Pain Management](#) Includes charts and graphs on pain management database; an extensive site.

[American Academy of Pain Medicine](#)

[Alliance of State Pain Initiatives](#) Includes links to all state initiatives, a list of professional and patient educational materials.

[American Association of Nurse Anesthetists](#)

[American Board of Anesthesiology](#)

[American Chronic Pain Association](#)

[American Council for Headache Education - ACHE](#)

[The American Fibromyalgia Syndrome Association, Inc.](#)

[American Headache Society](#) Formerly the American Association for the Study of Headache.

[American Pain Foundation](#) "Information, advocacy and support." Includes [Pain Care Bill of Rights](#).

[American Pain Society](#)

[American Society of Anesthesiologists](#) Includes a collection of [Standards, Guidelines and Statements](#) online.

[American Society for Pain Management Nursing](#)

[American Society of PeriAnesthesia Nurses](#)

[American Society of Regional Anesthesia and Pain Medicine](#)

[Anesthesia Patient Safety Foundation](#)

[Association for Applied Psychophysiology and Biofeedback](#)

[Cancer Pain & Symptom Management Nursing Research Group](#) Part of the [Toolkit for Nurturing Excellence at End-of-Life Transition \(TNEEL\)](#) web site, funded by the Robert Wood Johnson Foundation; 1999-2003.

[International Association for the Study of Pain - IASP](#)

[MAGNUM, The National Migraine Association](#)

[Memorial Sloan-Kettering Cancer Center Pain Management Program](#)

[National Foundation for the Treatment of Pain](#)

[National Headache Foundation](#) Includes sections for the public and for health professionals.

North American Chronic Pain Association of Canada has merged with the [Chronic Pain Association of Canada](#)

[Obstetric Anaesthetists' Association](#) UK

[Oncology Nursing Society](#)

[SOAP, The Society for Obstetric Anesthesia Perinatology](#)

Temperature

[Evaluation and Treatment of Heat-Related Illnesses](#) An online article from *American Family Physician*, June 1, 2002.

[Geriatric Thermoregulation](#), Research Applied to Clinical Practice, by Robert C. Knies, RN, MSN, CEN, Section Editor, [Emergency Nursing World](#).

[Heat Emergencies](#) By Ann Dye, RN MSN, [Emergency Nursing World](#).

[Hypothermia and Hyperthermia in the Elderly](#) By Maureen Habel, RN, MA, CRRN.; and online continuing education course.

[Hypothermia: Prevention, Recognition and Treatment](#) From a site designed and operated by Robert Douwens, B.C., Canada which emphasizes emergency care for victims of hypothermia.

[Malignant Hyperthermia](#), Research Applied to Clinical Practice, by Robert C. Knies, RN, MSN, CEN, Section Editor, [Emergency Nursing World](#).

Sleep

[Adolescent Sleep Needs and Patterns Research Report and Resource Guide](#) Includes access to a report from the National Sleep Foundation's Sleep And Teens Task Force.

[American Academy of Sleep Medicine](#) Includes a list of [Accredited Sleep Disorders Centers](#).

[Circadian Rhythms and Shift Work](#) Revised by the Wellness Section under the direction of Harold A. Thomas, Jr, MD, FACEP Wellness Section Steering Committee Chair August 2003, [American College of Emergency Physicians](#).

[Delayed sleep phase syndrome \(DSPS\)](#) From the SleepChannel, an extensive resource.

[Innovations in Critical Care: The Effect of Earplugs on Sleep Measures During Exposure to Simulated Intensive Care Unit Noise](#) An online article by C. Jane Wallace, RN, PhD, Jeanette Robins, BS, RPSGT, Lynn S. Alvord, PhD, and James M. Walker, PhD, from *American Journal of Critical Care*, July 1999, vol. 8, no. 4wew.

[Integration of Behavioral and Relaxation Approaches Into the Treatment of Chronic Pain and Insomnia](#) NIH State of the Science Statement (formerly known as Technology Assessment Conference Statement), October 16-18, 1995.

[National Center on Sleep Disorders Research](#), National Heart, Lung and Blood Institute. There is also an [NIH National Sleep Disorders Research Plan](#). Some materials require [Adobe Acrobat Reader](#).

[New Abstracts and Papers in Sleep \(NAPS\)](#)

[Restless Legs Syndrome: Detection and Management in Primary Care](#)
From the National Heart Lung and Blood Institute; requires [Adobe Acrobat Reader](#).

[Sleep and Aging](#) An extensive site from the [National Sleep Foundation](#).

[Sleep disorders](#) Includes links to specific disorders; from the Medical Encyclopedia, Medline Plus.

[Sleep Disorders and Sleep Problems in Childhood](#) An online article from *American Family Physician*, January 15, 2001.

[The Sleep Home Pages](#) Funded in part by a grant from the National Institute of Mental Health. Includes an online syllabus [Basics of Sleep](#).

[Sleep in America Poll](#) From the National Sleep Foundation.

[The Sleep Medicine Home Page](#) A metasite listing links to other web resources, including organizations, disorders, and medications.

[Sleep Problems in the Elderly](#) An online article by David N. Neubauer, M.D. from *American Family Physician*, May 1, 1999.

[Snoring: Not Funny, Not Hopeless](#) An illustrated online article by Peter J. Casano, M.D.; [Sinus Care Center](#), Jackson, Mississippi.

[Stanford Primary Care Sleep Education Project](#)

[Treatment of Sleep Disorders of Older People](#) A National Institutes of Health Consensus Development Conference Statement, March 26-28, 1990.

Journals

[Journal of Sleep Research](#) Tables of contents are available online.

[SLEEP](#) Official journal of the American Academy of Sleep Medicine and the Sleep Research Society; tables of contents are available online.

[Sleep Medicine](#) Full-text articles are available from 2000 to the present. Access to the site is complimentary for a limited time.

[Sleep Medicine Reviews](#) Full-text articles are available from 1999 to the present. Access to abstracts is complimentary. Access to full-text is limited to print subscribers.

[Sleep Research Online](#) An open access, online journal.

Agencies and Organizations

[American Academy of Sleep Medicine](#) Formerly the American Sleep Disorders Association.

[British Sleep Society](#)

[Canadian Sleep Society](#)

[National Sleep Foundation](#)

[Nurse Healers Professional Associates International: The Official Organization for Therapeutic Touch](#)

[Restless Legs Syndrome Foundation](#)

[Sleep Research Society](#)

[Society for Research on Biological Rhythms](#)

[World Federation of Sleep Research Societies](#)

Sensory Function

[American Academy of Otolaryngology-Head and Neck Surgery](#) "Patient Info" contains sites on [Smell and Taste Disorders](#) and [How the Ear Works](#).

[Eye and Ear](#) On JayDoc HistoWeb; lavish illustrations; University of Kansas Medical Center.

[Hearing, Ear Infections, and Deafness](#), [Smell and Taste](#) Information from the [National Institute on Deafness and Other Communication Disorders](#).

[It Takes a Lot of Nerve: A Two-Level Case Study Designed to Teach the Physiology of the Nervous System](#) by Tangi Mitchell and Cheryl L. Watson, Biological Sciences, Central Connecticut State University. Includes an accompanying set of [Case Teaching Notes](#).

[Nasal Dysfunction Clinic](#) University of California, San Diego.

[Neurological Eye Simulator](#) From the University of California Davis; "application simulates eye motion and demonstrates the effects of disabling one or more of the 12 eye muscles and one or more of the 6 cranial nerves that control eye motion"; teaches what to look for during a standard neurological eye exam; requires [Shockwave](#) (free plug-in).

[The Perceptual Science Group](#) From MIT. Site includes specific sensory illusions.

[Physiology of Taste](#) In [Pathophysiology of the Digestive System](#), from Colorado State University.

[Sensory Evaluation/Sensory Physiology](#) By Nancy L. DeVore, Oregon State University, Corvallis.

Agencies and Organizations

[American Academy of Neurology](#)

[American Association of Neuroscience Nurses](#)

[Vestibular Disorders Association](#)

Acoustic

[Audiology](#) Copyright © 1996. All Rights Reserved. The Bobby R. Alford Department of Otorhinolaryngology and Communicative Sciences, Baylor

College of Medicine. Provides explanations and illustrations of hearing disorders and audiology techniques.

[Otitis Externa: A Practical Guide to Treatment and Prevention](#) An online article from *American Family Physician*, March 1, 2001.

Journals

[American Journal of Otolaryngology](#) Full-text articles are available to personal subscribers starting from July-August 2000 to the present. Access to tables of contents and abstracts is complimentary.

Agencies and Organizations

[Acoustic Neuroma Association](#)

[Alexander Graham Bell Association for the Deaf and Hard of Hearing](#)

[American Neurotology Society](#)

[American Otological Society](#)

[American Speech-Language-Hearing Association](#)

[Canadian Cultural Society of the Deaf](#)

[Canadian Hearing Society](#)

[Laurent Clerc Deaf Education Center, Gallaudet University/National Deaf Education Network and Clearinghouse](#)

[National Association of the Deaf](#)

[National Institute on Deafness & Other Communication Disorders](#)

[The Prosper Ménière Society](#)

[Self-Help for Hard of Hearing People](#)

[Society of Otolaryngology and Head-Neck Nurses](#)

Visual

[All About Vision](#) and Virtually Everything in Sight "registered service marks of Access Media Group, LLC. Copyright 2000-2005 Access Media Group." Site includes information on many eye disorders illustrated with graphics and interactive features, such as the [Amsler grid](#) for evaluation of macular degeneration. Also includes a section on [Computer Vision](#) issues.

[Diseases and Conditions Simulations](#) from Pharmacia Corporation. Text and simulations for a variety of disorders so you can experience a little of what it is like to have a specific visual disorder. Also features links to relevant web resources.

[The Eye](#) An extensive online lecture with animations, simulations, and interactive experiments related to vision. Part of the extraordinary site on [Neurophysiology](#) An extensive collection of detailed tutorials on neurophysiologic functions with flash animations and online interactive experiments. Check out the one on "squinting"!

[Eye Disease Simulations](#) Pictures that demonstrate how the world appears to individuals with different eye diseases; from the [National Eye Institute](#).

[The Eyes](#) From the [Clinical Practice Guidelines for Nurses in Primary Care](#); includes a section on assessment.

Select **EYES** topics from [Screening Physical Exam](#) By Arcot J Chandrasekhar, MD, FRCP, FACP, FCCP, for online illustrated lessons; from Loyola University.

[Eyes and Vision Topics](#) A directory to topical collections of web resources on these topics; from Medline Plus. Includes online tutorials and links to relevant organizations.

[Glaucoma Medications and their Side Effects](#) From the [New York Glaucoma Research Institute](#).

[The Joy of Visual Perception: A Web Book](#) By Peter K. Kaiser, Web/HTML Support by Rod Potter York University. Extensive illustrated online resource with some fascinating interactive online activities under "Fun Things".

[National Eye Health Education Program \(NEHEP\)](#) Information in English and Spanish from the National Eye Institute. Covers [Diabetic Eye Disease](#), [Glaucoma](#), and [Low Vision](#).

[Neurological Eye Simulator](#) From the University of California Davis; "application simulates eye motion and demonstrates the effects of disabling one or more of the 12 eyes muscles and one or more of the 6 cranial nerves that control eye motion"; teaches what to look for during a standard neurological eye exam; requires [Shockwave](#) (free plug-in).

[Policy Statements and Guidelines](#) and [Public Information](#) From the [Canadian Ophthalmological Society](#).

[A Practical Guide to Drug-Induced Ocular Side Effects](#) On the [New York Glaucoma Research Institute](#) server, reprinted with permission from *Review of Ophthalmology*, Kristine Morrell, Managing Editor.

[Using Glaucoma Eyedrops](#) and [Topical Therapies for Glaucoma: What Family Physicians Need to Know](#) Online articles from the American Academy of Family Physicians, *American Family Physician*, April 1, 1999.

[Vision-Related Terms--Selected Online Sources](#), [Diagram of the Eye](#) and [Normal Eye Anatomy](#) (a collection of illustrations) from the [National Eye Institute](#). [Eye Charts](#) are also available online.

[Webvision](#) From the University of Utah; an extensive and well-illustrated site about the human retina.

Journals

[DJO: Digital Journal of Ophthalmology](#)

[Journal of AAPOS](#) Official publication of the American Association for Pediatric Ophthalmology and Strabismus. Full-text articles are available to AAPOS members and personal subscribers starting from 1999 to the present; Abstracts, References and PDFs are available from 1997 to the present. Access to tables of contents and abstracts is complimentary.

Agencies and Organizations

[American Foundation for the Blind](#)

[American Optometric Association](#)

[Association for Macular Diseases](#)

[Association for Research in Vision and Ophthalmology](#)

[Canadian Association of Optometrists](#)

[Canadian National Institute for the Blind](#)

[Canadian Ophthalmological Society](#)

[Eye Bank Association of America](#)

[Glaucoma Foundation](#)

[Guide Dogs for the Blind, Inc.](#)

[Guiding Eyes for the Blind](#)

[Macular Degeneration Foundation](#)

[The Macula Foundation](#)

[National Alliance for Eye and Vision Research](#)

[National Association for Visually Handicapped](#)

[The National Braille Association](#)

[National Eye Institute](#) An extensive site with a Patient and Public area that includes factsheets on most common eye diseases.

[The National Federation of the Blind Audio Page](#) Requires [Real One](#) [formerly Real Audio] player.

[Prevent Blindness America](#)

[Recording for the Blind & Dyslexic, Inc.](#)

[Sjogren's Syndrome Foundation Inc.](#)

[Talking Books: National Library Service for the Blind & Visually Handicapped](#) At the Library of Congress, Washington, DC.

16: Concepts of Neurologic Dysfunction

[Advances in the Treatment of Epilepsy](#) Online article by Selim R. Benbadis, MD, and William O. Tatum IV, DO; from *American Family Physician*, July 1, 2001; includes a link to a patient handout.

[Brain Functions and Map](#) By Robert P. Lehr Jr., PhD, Professor Emeritus, Department of Anatomy, School of Medicine, Southern Illinois University.

Scroll down to the brain image and click on different sections of the brain to review brain functions; from the [Centre for Neuro Skills](#), a multi-site brain injury rehabilitation company. Check out the Multi-Media Center for sample videos on brain injury.

[Central Nervous System Exam](#) By Arcot J. Chandrasekhar, MD, FRCP, FACP, FCCP, Loyola University. Detailed illustrated review of multiple systems related to the neurological exam.

[EMG & Nerve Conductions Homepage](#) By Joe F. Jabre, MD; includes Electronic EMG Manual ©; Quick-Anatomy: Nerves; Quick-Anatomy: Muscles; Quick Set-Ups: Nerve Conductions; Nerve Conduction TeleEMG Calculator ©.

[History & Physical Examination: Clinical Patterns](#) Part of the web site [Neuromuscular Evaluation Protocols](#) on the [Neuromuscular Disease Center](#) site, Washington University School of Medicine, St. Louis. Also includes information on [Lab Testing: Especially for treatable diagnoses after history & examination](#) and [Nerve Biopsy](#).

[Ketogenic Diet and Vagus Nerve Stimulator](#) A directory to information resources available on the web from the Pediatric Epilepsy Center, [Washington University Comprehensive Epilepsy Program](#).

[Management of Seizures and Epilepsy](#) Online article by William J. Marks, JR., MD, and Paul A. Garcia, MD; from *American Family Physician*, April 1, 1998.

[Medscape Neurology & Neurosurgery](#) Exceptional online resource that includes access to news, journals, and much more. Requires registration, which is free.

[NeuroAnatomy Pathology on the Internet](#) Copyright by Katalin Hegedüs. A comprehensive list of links to online lectures, textbooks, and tutorials related to neuroanatomy, neuropathology, neurology. Contains excellent links to sites explaining neurological [signs and symptoms](#) from A (Adie's tonic pupil) to W (Weakness).

[Neuroexam.com](#) Includes online video clips using RealOne, formerly RealPlayer, and includes a broad selection of topics related to the neurological exam. Companion site for *Neuroanatomy through Clinical Cases* by Hal Blumenfeld, MD, PhD.

[NeuroLogic: An anatomical approach to the neurological exam](#) By Paul D. Larsen, MD, University of Nebraska School of Medicine Suzanne S. Stensaas, PhD, University of Utah School of Medicine. This site includes extensive Quicktime audio/video presentations.

[The Neurologic Exam](#) Created by Marvin Sodicoff, PhD. Adapted by Rod Bain and Andrew Blum, Temple University. Includes audio/video clips. Part of a larger site [The Neuroanatomy Lab](#) that includes Atlases and Brain Sections.

[Neurological Eye Simulator](#) From the University of California Davis; "application simulates eye motion and demonstrates the effects of disabling one or more of the 12 eyes muscles and one or more of the 6 cranial nerves that control eye motion"; teaches what to look for during a standard neurological eye exam; requires Shockwave (free plug-in).

Select **Nervous System** topics from [Screening Physical Exam](#) By Arcot J. Chandrasekhar, MD, FRCP, FACP, FCCP, for online illustrated lessons; from Loyola University.

[NINDS Epilepsy Information Page](#) from the National Institute of Neurological Disorders and Stroke.

[Online Neuropathology Atlas](#) Created by Prof. Katalin Hegedüs and Prof. László Molnár.

[Scales and Indexes](#) From the Department of Neurology Residency Program, Yale University. Includes interactive Glasgow Coma scales and the NIH Stroke Scale.

[Screening Physical Exam](#) Select the section on the **Nervous System**, by Arcot J. Chandrasekhar, MD, FRCP, FACP, FCCP, Loyola University.

[Washington University Comprehensive Epilepsy Program](#) All contents Copyright © Washington University at St. Louis, Missouri. All rights reserved; extensive collection of links to epilepsy related sites.

[When a headache isn't just a headache](#) An online article from *Neurology Reviews*, November 2000.

Journals

[Brain Pathology](#) Official journal of the International Society of Neuropathology. Selected items are available in PDF format full-text online.

[Brainwaves](#) Newsletter from Johns Hopkins University.

[Journal of Clinical Neuroscience](#) The official journal of [Neurosurgical Society of Australasia](#), the [Australian Association of Neurologists](#), the [Australian and New Zealand Society for Neuropathology](#), the Taiwan Neurosurgical Society, and the Asian/ Australian Society of Neurological Surgeons.

[The Journal of Neuroscience Online](#) Tables of contents, abstracts, and selected items are available online; full access requires subscription; from the Society for Neuroscience.

[Seizure](#) A journal about seizures and epilepsy. Tables of contents and abstracts are available open access online; full access is available by subscription.

Agencies and Organizations

[Academy of Aphasia](#)

[American Association of Neuroscience Nurses](#)

[American Congress of Rehabilitation Medicine](#)

[American Society of Neuroradiology](#)

[Association of Rehabilitation Nurses](#)

[Epilepsy Foundation of America](#) Includes a section on [Epilepsy and Seizure Statistics](#).

[Heart and Stroke Foundation of Canada](#)

[National Headache Foundation](#)

[National Stroke Association](#)

[Society for Neuroscience](#)

17: Disorders of Neurologic Function

[Advances in the Treatment of Epilepsy](#) Online article by Selim R. Benbadis, MD, and William O. Tatum IV, DO; from *American Family Physician*, July 1, 2001; includes a link to a patient handout.

[The Brain Attack Coalition](#) This site is designed for health professionals, especially those working as part of stroke teams. Includes direct links to Scales and Guidelines from a variety of sites.

[The Brain Eater](#) Companion web site to the program presented on PBS about Mad Cow Disease and its transmission to humans through the food chain.

[Coma](#) From NOVA Online, produced for PBS by the WGBH Science Unit.

[Dana BrainWeb](#) An extensive site from the Dana Foundation that includes information on Memory, Alzheimer's Disease, Head Injuries, Stroke, Parkinson's Disease and more.

[Degenerative Spine Disease](#) Online article by John R. Hesselink, MD, FACR, with references; from the [Degenerative Disease Syllabus, Teaching File Database](#), from the University of California San Diego.

[Herniated nucleus pulposus \(slipped disk\)](#) Illustrations and information from the Medical Encyclopedia, Medline Plus.

[Killer Disease on Campus](#) Companion web site to the PBS program on meningococcal meningitis. Includes an [animation](#) of "how meningococcal bacteria wreak havoc inside a victim's body".

[Meningococcal Disease](#) General and technical information from the Centers for Disease Control and Prevention.

[Neurological Eye Simulator](#) From the University of California Davis; "application simulates eye motion and demonstrates the effects of disabling one or more of the 12 eyes muscles and one or more of the 6 cranial nerves that control eye motion"; teaches what to look for during a standard neurological eye exam; requires [Shockwave](#) (free plug-in).

[Spinal Cord Injury Nutrition Facts: 1 2, 3, 4, 5, and 6](#) From the the Institute for Rehabilitation and Research, affiliated with Baylor College of Medicine.

[Spinal Cord 101](#) An online overview of the spinal cord and spinal cord injury from the [Spinal Cord Injury Resource Center](#).

[Spinal Cord Injury Resources](#) A site created and maintained by Jim Lubin, a "C2 quadriplegic, completely paralyzed from the neck down and dependent on a ventilator to breathe, using an keyboard/mouse emulator with a sip and puff switch to type morse codes".

[Toxic Neuropathies: Clinical and Pathological Features](#) From the Department of Neurology, Washington University in St. Louis.

Agencies and Organizations

[American Academy of Neurology](#) This site includes fact sheets on many disorders.

[American Academy of Pain Medicine](#)

[American Academy of Pain Management](#) Includes charts and graphs on pain management and database; extensive site.

[American Association of Neuroscience Nurses](#)

[American Chronic Pain Association](#)

[American Spinal Injury Association](#)

[Association of Rehabilitation Nurses](#)

[American Stroke Association](#) A division of the American Heart Association.

[Brain Injury Association](#)

[Canadian Paraplegic Association](#)

[Canadian/American Spinal Research Organization](#)

[Epilepsy Foundation of America](#) Includes a section on [Epilepsy and Seizure Statistics](#).

[Meningitis Foundation of America Inc.](#)

[National Brain Tumor Foundation](#)

[National Institute of Neurological Disorders and Stroke](#)

[National Parkinson Foundation](#)

[National Spinal Cord Injury Association](#)

[National Stroke Association](#)

[Paralyzed Veterans of America](#)

[Society of Neurosurgical Anesthesia and Critical Care \(SNACC\)](#)

[Trigeminal Neuralgia Association](#)

18: Neurobiology of Schizophrenia, Mood Disorders, and Anxiety Disorders

[Neuropsychology Central](#) An extensive commercial site. Copyright © by Telepsychology Solutions.

[Neurosciences on the Internet](#) Edited and maintained by Neil A. Busis, MD. Copyright © by Neil A. Busis, MD. All rights reserved. A massive and well-organized collection of links to other sites dealing with neurology.

[The Schizophrenia Home Page](#)

[Schizophrenia: A Handbook For Families](#) By Health Canada in Co-operation with the Schizophrenia Society of Canada, Canada.

[Whole Brain Atlas](#) By Keith A. Johnson, MD, and J. Alex Becker; an exceptional site.

Agencies and Organizations

[American Academy of Neurology](#)

[American Association of Neuroscience Nurses](#)

[American Psychiatric Association](#)

[American Psychiatric Nurses Association](#)

[American Psychological Association](#)

[Association of Child and Adolescent Psychiatric Nurses-ACAPN](#)

[Cognitive Neuroscience Society](#)

[College of Registered Psychiatric Nurses of Manitoba](#)

[International Society of Psychiatric-Mental Health Nurses](#)

[National Institute of Mental Health](#)

[Registered Psychiatric Nurses Association of Alberta](#)

Special MEDLINE Note on searching for articles related to depression and other mental disorders:

MEDLINE uses the following heading for organic mental disorders - Delirium, Dementia, Amnesic, Cognitive Disorders; to search for articles on depression (severe, chronic disease) use the heading Depressive Disorders; the heading Depression is used to search situational depression and short term depression.

19: Alterations of Neurologic Function in Children

[American Academy of Neurology Practice Guidelines](#) These cover a wide range of topics, many of which specifically concern children.

[Bacterial meningitis in children and adults: Changes in community-acquired disease may affect patient care](#) By Elizabeth J. Phillips, MD, FRCPC, and Andrew E. Simor, MD, FRCPC; *Postgraduate Medicine*, March 1998; 103(3); full-text online.

[Embryonic Development](#) Slide illustrations from the "[Babies and Birth Defects: A Mystery in Texas](#)" educational module "designed to teach middle school and high school students about epidemiology, neural tube birth defects, and folic acid" from the CDC's National Center on Birth Defects and Developmental Disabilities (NCBDDD); includes illustration of

neural tube defect development. Includes sections on developmental milestones, specific disorders and neuroanatomy.

[Folic Acid](#) A site from the National Center on Birth Defects and Developmental Disabilities (NCBDDD), Centers for Disease Control and Prevention. Includes links to relevant reports from *MMWR: Morbidity and Mortality Weekly Report*

[Fortnightly review: The muscular dystrophies](#) Online article by Alan E H Emery, from *BMJ* 1998;317:991-995 (10 October); includes definitions and classifications and illustrations.

[A Good Start in Life: Understanding Your Child's Brain and Behavior](#) By Norbert Herschkowitz, MD, and Elinore Chapman Herschkowitz. Foreword by Jerome Kagan; 288 pages, 2002; available full-text online from the National Academy Press.

[Haemophilus influenzae type b](#) One of the many [vaccine preventable illnesses](#) reviewed at the extensive [Childhood Immunization Support Program \(CISP\)](#) web site of the American Academy of Pediatrics. Includes an online video presentation.

[Hydrocephalus](#) From Medline Plus; provides links to web resources.

[Infants with Anencephaly as Organ Sources: Ethical Considerations](#) Policy Statement from the American Academy of Pediatrics. Includes an extensive list of references.

[Lissencephaly Network, Inc.](#) Includes a parents' guide to the disorder.

[Neonatal Abstinence Syndrome](#) From the High Risk Newborn site of the University of Utah Health Sciences Center.

[Neonatal Drug Exposure](#) A training module that "addresses the impacts of cocaine, heroin, smoking tobacco, and alcohol on infants." From the Arizona Supreme Court.

[Neonatal Herpes Simplex Virus Infections](#) An online article by Caroline M. Rudnick, MD, PHD, and Grant S. Hoekzema, MD, [American Family Physician](#) March 15, 2002.

[The Neurodiagnostic Evaluation of the Child With a First Simple Febrile Seizure](#) Practice Guideline from the American Academy of Pediatrics.

[Neuroneonatology](#) An extensive illustrated site on neurologic aspects of the neonate and neonatal neurologic problems; available in English and Spanish; by Israel Alfonso, MD, Oscar Papazian, MD, Donald Altman, MD; and Andrew Kairalla, MD.

[NINDS Craniosynostosis Information Page](#) Overview of the disorder and links to organizations and additional information from the National Institute of Neurological Disorders and Stroke.

[NINDS Hydrocephalus Information Page](#) Overview of the disorder and links to organizations and additional information from the National Institute of Neurological Disorders and Stroke.

[NINDS Reye's Syndrome Information Page](#)

[OMIM™ Online Mendelian Inheritance in Man](#) An extensive database of genetically related disorders, including links to gene maps and MEDLINE references.

[Pediatric Chronic Pain](#) "A Position Statement from the American Pain Society", full text online.

[Pediatric Pain: Science Helping Children](#) From the IWK Grace Health Centre and the Psychology Department of Dalhousie University in Halifax, Nova Scotia, Canada.

[Pediatrics: Febrile Seizures](#) By William T. Zempsky, MD, from eMedicine.

[Perioperative Pain Management in Newborns](#) Online review from eMedicine.

[Pesticides and Childhood Cancer](#) Online article from *Environmental Health Perspectives* 106, Supp.3, June 1998.

[Progress Toward Elimination of Haemophilus influenzae Type b Invasive Disease Among Infants and Children --- United States, 1998--2000](#)
MMWR March 22, 2002 / 51(11);234-7.

[Reye Syndrome](#) Extensive online article by Debra L Weiner, MD, PhD, from eMedicine.

[Role of Imaging in Hydrocephalus](#) From PediatricsOnCall; includes CAT scans.

[Routine screening cranial ultrasound examinations for the prediction of long term neurodevelopmental outcomes in preterm infants](#) A position statement from the Fetus and Newborn Committee, Canadian Paediatric Society.

[Screening for Neural Tube Defects](#) From the *Guide to Clinical Preventive Services*.

[The Team Approach in the Care of the Child with Myelomeningocele](#) Extensive online article from the *Journal of Prosthetics and Orthotics*, 1990.

[Washington University Comprehensive Epilepsy Program: Pediatric Epilepsy Center](#) All contents Copyright © Washington University at St. Louis, Missouri. All rights reserved; includes an extensive collection of links to epilepsy related sites.

[Wong On Web](#) An extensive resource featuring Donna Wong, PhD, RN, PNP, CPN, FAAN; includes procedures, special sections on pediatric pain, and more.

[Young People at risk: HIV/AIDS among America's Youth](#), from the Centers for Disease Control and Prevention, last updated March 2002.

Agencies and Organizations

[American Academy for Cerebral Palsy and Developmental Medicine](#)

[American Board of Genetic Counseling](#)

[Anencephaly Support Foundation](#)

[Children's Brain Tumor Foundation](#)

[Developmental Disabilities Nurses Association](#)

[Epilepsy Foundation of America](#) Includes a section on [Epilepsy and Seizure Statistics](#).

[Hydrocephalus Association](#) San Francisco.

[Hydrocephalus Foundation, Inc.](#) Massachusetts

[International Birth Defects Information Systems](#) An extensive site that provides extensive information on birth defects, prevention, and links to web resources on a great number of genetic disorders. Includes sites in multiple languages.

[International Myotonic Dystrophy Organization](#)

[Muscular Dystrophy Association](#)

[National Center for Birth Defects and Developmental Disabilities](#) An extensive site from the Centers for Disease Control; includes a section on [Disability and Health](#).

[National Dysautonomia Research Foundation](#)

[National Hydrocephalus Foundation](#)

[National Institute of Neurological Disorders and Stroke](#)

[National Newborn Screening and Genetics Resource Center](#) web site: GeNeS-R-US, (Genetic and Newborn Screening Resource Center of the United States).

[National Organization for Rare Disorders - NORD](#) Includes access to abstracts defining many rare disorders; additional information is available for purchase.

[National Reye's Syndrome Foundation](#)

[Office of Genomics and Disease Prevention](#) of the Centers for Disease Control and Prevention; available in English and [Spanish](#). This site is part of [HuGENet™](#), "a global collaboration of individuals and organizations who develop and communicate epidemiologic information on the human genome", which includes a journal club, case studies, and literature database.

[Office of Rare Diseases](#) From the National Institutes of Health.

[Parent Project Muscular Dystrophy](#) Advocate group for research, includes current news feature and information on specific disorders.

[Spina Bifida and Hydrocephalus Association of Canada](#)

[The Spina Bifida Association of America](#) Contains information and links to related sites. Also contains information on Agent Orange and latex allergy.

[UCPnet - United Cerebral Palsy](#) An extensive site.

Related MEDLINE Tips

Click here to search [MEDLINE](#) via the National Library of Medicine's PubMed system.

Consider using the following MeSH (**M**edical **S**ubject **H**eading) terms when doing searches on some of the topics in the above chapters:

Neurology (the profession)	Sensation Disorders
Pain	Nervous System
Nervous System Diseases	Brain
Epilepsy	Brain Injuries
Unconsciousness	Seizures
Cerebrovascular Disorders (MeSH for stroke)	Neurologic Manifestations
Nervous System Abnormalities	Mental Retardation
Neuromuscular Diseases	Nerve Degeneration
Neurologic Manifestations	Peripheral Nervous System Diseases

or specific headings for nervous system diseases or parts of the nervous system:

Spinal Cord	Spinal Cord Injuries
Headache	
Sense Organs	Neurons, Afferent
Hair Cells	Olfactory Receptor Neurons
Receptors, Sensory	Photoreceptors
Mechanoreceptors	Retinal Ganglion Cells
Chemoreceptors	Nociceptors

Printed Documentation

Thermoreceptors

Sensory Thresholds

Sensation

Taste

Smell

Hearing

Pain

Touch

Vision

Temperature Sense

Proprioception

or the subheading pp - pathophysiology combined with specific subject headings such as:

Ear

Eye

Nose

Taste Buds

Click here for a focused MEDLINE search on the [febrile seizures](#).

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