

Medicine and Radiation Therapy Resource Guide

[Electronic Reference Sources](#)

[Periodical Indexes and Full-text Databases](#)

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[Selected Print Sources](#)

In addition to the sources below, users should check the [Online Catalog](#) for specific book titles, or try keyword searches such as 'radiation and treatment,' to identify books on a particular topic.

Electronic Reference Sources

[Gale Virtual Reference Library \(GVRL\)](#)

"Gale Virtual Reference Library is a database of encyclopedias and specialized reference sources for multidisciplinary research." Titles relevant to medicine and radiation include:

- Gale Encyclopedia of Cancer 2nd ed., 2v, 2006
- Gale Encyclopedia of Genetic Disorders 2nd ed., 2v, 2005
- Gale Encyclopedia of Medicine 3rd ed., 5v, 2006
- Gale Encyclopedia of Neurological Disorders 2v, 2005
- Gale Encyclopedia of Nursing and Allied Health 5v, 2002
- Encyclopedia of Public Health 4v, 2002
- Cambridge Historical Dictionary of Disease 2003
- Building Blocks of Matter: A Supplement to the Macmillan Encyclopedia of Physics 2003
- Chemistry: Foundations and Applications 4v, 2004

Access Science is the online version of the McGraw-Hill Encyclopedia of Science & Technology, and the Research Updates from the McGraw-Hill Yearbooks. The complete full-text of articles and illustrations are provided. There are sections for Biological & Biomedical Science (including Biophysics) and for Medicine, (Biomedical engineering/therapy/imaging, and Clinical pathology/diagnostics).

[Oxford Reference Online Premium](#)

Oxford Reference Online Premium is an online full-text collection of dictionaries, language reference and subject reference works published by Oxford University Press. Relevant titles for studies in medicine and radiation therapy include:

- The Oxford Companion to Medicine
- The Oxford Companion to the Body
- Concise Medical Dictionary
- An A-Z of Medicinal Drugs
- A Dictionary of Nursing
- The Oxford Dictionary of Sports Science and Medicine
- A Dictionary of Biology
- A Dictionary of Chemistry
- A Dictionary of Physics
- A Dictionary of Weights, Measures, and Units

[Credo Reference \(xreferplus\)](#)

Credo Reference (xreferplus) is a digitized collection of 401 reference books. Sample titles from the Medicine and Science sections include:

- Black's Medical Dictionary
- Dictionary of Medical Terms
- Dorland's Illustrated Medical Dictionary
- Macmillan Dictionary of Toxicology
- Mosby's Dental Dictionary
- Mosby's Dictionary of Medicine, Nursing, & Health Professionals
- Pharmaceutical Medicine Dictionary
- The Royal Society of Medicine Health Encyclopedia
- The Penguin Dictionary of Physics

[Salem Health: Magill's Medical Guide and Salem Health: Cancer](#)

[Magill's Medical Guide](#) (5 volumes), REF RC41 .M34 2008

[Salem Health: Cancer](#) (4 volumes), REF RC265 .S32 2009

Salem Press is now offering two of its medical reference sets electronically: Magill's Medical Guide and Salem Health: Cancer. Users may limit searches to just one title, or may search across both sets. The print version of each set is available in the Sawyer Library reference section.

[Periodical Indexes and Full-text Databases](#)

[MEDLINE](#)

"MEDLINE provides authoritative medical information on medicine, nursing, dentistry, veterinary medicine, the health care system, pre-clinical sciences, and much more. Created by the National Library of Medicine, MEDLINE uses MeSH (Medical Subject Headings) indexing with tree, tree hierarchy, subheadings and explosion capabilities to search citations from over 4,800 current biomedical journals."

[Health Reference Center - Academic](#)

Health Reference Center Academic, published by Gale Cengage, "provides access to the full text of nursing and allied health journals, plus [a] wide variety of personal health information sources.." This resource is designed for nursing / allied health students, and consumer health researchers. A recently added content feature to the Health Reference Center (and to Academic OneFile) is the inclusion of "**OR Live**" (**Operating Room Live**): videos of live surgeries. To get a list of all the available surgery videos, go to the Advanced Search, select the Publisher Name category from the drop down box, and type OR-Live. Users will retrieve several hundred results grouped under the Multimedia tab.

[Academic OneFile \(InfoTrac\)](#)

This database from Gale Cengage (Infotrac) contains wide ranging collections of primarily full-text articles from both scholarly and popular journals. Like the Health Reference Center above, Academic OneFile includes "**OR Live**," videos of live surgeries.

[Health Source - Consumer Edition](#)

Health Source - Consumer Edition covers topics in the consumer health, medical sciences, food sciences and nutrition, childcare, sports medicine, aging, and general health. Journals, pamphlets, and reference books are included, and many are available in full-text.

[Academic Search Complete](#)

Academic Search Complete is a wide ranging periodical database, covering topics in areas such as medical sciences, biology, and physics. More than 6,100 periodicals are available in full-text, including more than 5,100 peer-reviewed journals. Relevant journal titles include the *International Journal of Radiation Biology* (1997-one year ago). Indexing and abstracting coverage begins in the mid-1980's, and full-text coverage for many titles dates back to 1990.

[Sage Journals Online](#)

Journals covering medical topics (including radiology) are well represented in Sage Journals Online. Sage publishes over 500 scholarly journals in the areas of Business, Humanities, Social Sciences, and Science, Technology and Medicine.

[JSTOR](#)

Indexes and provides full-text access to over 250 scholarly journals, often with an extensive backfile. Although current issues of scientific journals will not be found here, JSTOR offers a unique opportunity to find early publications on 'new technologies.' Hence, a search for 'radiation therapy' brings results such as "Cancer Radiation Therapy: Potential for High Energy Particles," from a March 1972 issue of *Science*.

[Science \(AAAS\) Magazine 1997 -](#)

"Since Jan. 1901 the official proceedings and most of the papers of the American Association for the Advancement of Science have been included in Science." While the deep backfile of *Science* is contained in JSTOR (1880 - 2003), more recent coverage of the journal *Science* (1997 - present) is available here.

[Cambridge Journals Online](#)

Cambridge Journals Online delivers online access to over 200 peer reviewed journals published by Cambridge University Press. Titles relevant to medicine and radiation therapy include the *Journal of Radiotherapy in Practice*.

[Oxford Journals Online](#)

This database provides the full-text of a sizeable collection of Oxford University Press journals. In most instances, online content extends from 1996 onwards. Oxford journals cover a range of disciplines, including over 40 medical journals, and 24 journals in mathematics and the physical sciences. Sample journal titles include *Radiation Protection Dosimetry*, (1981 - present), and *Health Policy and Planning*, (1997 - present).

[Wiley InterScience \(includes Blackwell\)](#)

Wiley InterScience "features over 1,000 journals, major reference works, online books, Current Protocols laboratory manuals, and databases." [Medical journals](#) (including those specific to radiology) are well represented. Many articles are available in full-text. Journal titles from Blackwell Synergy were merged into this database in mid-2008.

[Springer Link](#)

SpringerLink contains over 1,000 high-quality, peer-reviewed journals covering scientific, technical and medical journal literature. The collection includes all journals formerly hosted by Kluwer Online are available through SpringerLink.

[MathSciNet](#)

MathSciNet is a comprehensive database covering the world's mathematical literature since 1940. It provides Web access to the bibliographic data and signed reviews of mathematical research literature contained in the Mathematical Reviews Database. When available, it provides links to original articles and other original documents, however the Reviews database does not contain the original articles. A search for 'radiation therapy' generates results such as 'Optimization Methods for Radiation Therapy Plans,' in *Computational Radiology and Imaging*.

[The ACM Digital Library](#)

The ACM (Association for Computing Machinery) Digital Library is a collection of both citations and full-text from ACM journal and newsletter articles, and conference proceedings. This collection is not medically oriented, however articles relevant to the delivery of radiation therapy may be found here as an example of applied computing and computational geometry.

[IEEE Computer Society Digital Library](#)

The IEEE (Institute of Electrical and Electronics Engineers), a non-profit organization, is the world's leading professional association for the advancement of technology. The IEEE Computer Society was founded in 1946, and it is the largest of the 39 societies of the IEEE. The IEEE Computer Society Digital Library provides online access to 22 society magazines and transactions, and more than 1,700 selected conference proceedings. A search for "radiation therapy" brings results such as "Dynamic Volume Rendering for Intensity Modulated Radiation Therapy (IMRT) Treatment," from the IEEE Visualization 2005 - (VIS'05) conference proceedings.

Selected Internet Sources

Medicine

[Stanford University's HighWire Press](#)

<http://highwire.stanford.edu/>

"A division of the Stanford University Libraries, HighWire Press hosts the largest repository of high impact, peer-reviewed content, with 1263 journals and 5,982,412 full text articles from over 140 scholarly publishers. HighWire-hosted publishers have collectively made 1,904,273 articles free." Covers topics in the areas of biology, medicine, physics, and social sciences. Allows for citation searching and provides a citation mapping feature, which illustrates relationships amongst articles and indicates frequently-cited articles.

[PubMed](#)

<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi>

This website from the National Library of Medicine provides access to over 18 million citations and abstracts from the Medline database. It includes the full-text of some of the articles. Worth exploring, but current Suffolk students and faculty shouldn't forget that we also have Medline as an Ebsco database (with significantly more linked full-text). For this version, see [Medline](#).

[Arrowsmith Linking: Biomedical Text Mining Tools](#)

http://arrowsmith.psych.uic.edu/arrowsmith_uic/index.html

This site is a collaboration of the University of Illinois at Chicago, Department of Psychiatry, the Human Brain Project at NIH, and the National Library of Medicine. The data mining tools developed here are to help researchers better analyze and retrieve scientific research contained in databases such as PubMed, by identifying "meaningful links between two sets of Medline articles." The site also refers to other similar tools: [A Compendium of Free, Public Biomedical Text Mining Tools Available on the Web](#).

[BioMed Central](#)

<http://www.biomedcentral.com/>

Calling itself "The Open Access Publisher," BioMed Central provides free online access to "fully and rapidly peer-reviewed" journal literature in the area of medicine and the biological sciences. "All the original research articles in journals published by BioMed Central are immediately and permanently available online without charge or any other barriers to access. This commitment is based on the view that open access to research is central to rapid and efficient progress in science and that subscription-based access to research is hindering rather than helping scientific communication." Browse journals alphabetically, or by subject, or use the advanced search option.

[FreeMedicalJournals.com](#)

<http://www.freemedicaljournals.com>

Another source for medical journal literature, this site provides links to the full-text for 1410 medical journals, in a variety of languages. Identify by journal title or by medical specialty.

[CDC Publications, Software and Other Products](#)

<http://www.cdc.gov/publications>

The Centers for Disease Control and Prevention is "the lead federal agency for protecting the health and safety of people." This page links you to their varied text and statistical reports that cover everything from general "Morbidity and Mortality" to tobacco use to hantavirus risks. The CDC also maintains the:

[National Center for Health Statistics \(NCHS\)](#)

<http://www.cdc.gov/nchs/index.htm>

This website is an excellent source of health statistics related to the U.S. population. Includes public-use data files and tabulated state data. Some reports are in PDF format. Want to do a quick browse for health-related data? Take a look at NCHS's [FastStats A to Z](#) page.

[HNPSStats](#)

<http://go.worldbank.org/N2N84RDV00>

"HNPSStats, short for Health, Nutrition, and Population Statistics, is a component of the

Knowledge Management System of the World Bank's Human Development Network. HNPStats offers country data sheets showing summary indicators for health status, health determinants, and health finance."

[The Merck Manuals Online Medical Library](#)

<http://www.merck.com/mmpe/index.html>

This is a free web version of the Seventeenth and Centennial Edition of the authoritative medical text. Use the Merck Manual to find "reliable and easy-to-use medical information" on diseases and treatments. Type a keyword in the search box, or browse by topic in the Table of Contents.

[A.D.A.M. Medical Encyclopedia \(MedLineplus\)](#)

<http://www.nlm.nih.gov/medlineplus/encyclopedia.html>

A good basic online encyclopedia for medical topics. Includes over 4,000 articles about diseases, tests, symptoms, injuries, and surgeries. It also contains an extensive library of medical photographs and illustrations.

[MayoClinic.com](#)

<http://www.mayoclinic.com/>

This consumer-oriented website provides lengthy articles on specific diseases and conditions that provide easy-to-read but substantive overviews. Drug information (both prescription and OTC) and wellness advice are also available here.

[PDRHealth](#)

<http://www.pdrhealth.com/home/home.aspx>

The public access version of PDR.net, the online Physician's Desk Reference. This site provides disease overviews, clinical trial information, and (most importantly) easy-to-understand prescription drug information.

[Lab Tests Online](#)

<http://www.labtestsonline.org/index.html>

A public database that provides information on clinical lab tests. Look for a specific medical test by name or search by condition. Allows screening by population group. Includes related news items.

[Oncolink](#)

<http://www.oncolink.com/>

In-depth guide to cancer information from the University of Pennsylvania Cancer Center. Topics include: Types of Cancer, Treatment Options, Coping with Cancer, Clinical Trials, Cancer

Resources, Ask the Experts, Oncolink Library, News, and more. See the featured section on "Radiation Oncology." Browse through the categories or use the Quick Search or Advanced Search options.

[Public Library of Science](http://www.plos.org/index.html)

<http://www.plos.org/index.html>

A noble project, "The Public Library of Science (PLOS) is a non-profit organization of scientists and physicians committed to making the world's scientific and medical literature a freely available public resource." PLoS publishes its own peer-reviewed journals, beginning with *PLoS Biology* on October 13, 2003 and *PLoS Medicine* on October 19, 2004. PLoS is launching three new community journals in 2005 — *PLoS Genetics*, *PLoS Computational Biology*, and *PLoS Pathogens*.

[Public Health InfoLinks: Medical/Health Image Collections](http://www.sph.emory.edu/PHIL/PHILimage.php)

<http://www.sph.emory.edu/PHIL/PHILimage.php>

This list of links to medical image collections on the web is posted by the Rollins School of Public Health at Emory University.

[AMA Atlas of the Body](http://www.ama-assn.org/ama/pub/category/7140.html)

<http://www.ama-assn.org/ama/pub/category/7140.html>

The American Medical Association sponsors this useful collection of medical illustrations. Some are general anatomy, and others illustrate the impact of specific diseases and disorders. You might also want to take a look at an old classic in anatomical illustration, [Gray's Anatomy \(1918 Edition\)](#) available through Bartleby.com.

[MedBioWorld](http://www.medbioworld.com/index.html)

<http://www.medbioworld.com/index.html>

Claiming to be the "largest medical reference site," MedBioWorld includes 8,200 journals within 80 medical specialties and 101 bioscience fields, 7,000 medical and bioscience associations, and 2,000+ bioscience companies. The site also has links to general resources like health dictionaries and acronym guides. However, this portal links you to some websites that are fee-based or require separate registration and logins.

[Hardin Meta Directory of Internet Health Sources](http://www.lib.uiowa.edu/md/index.html)

<http://www.lib.uiowa.edu/md/index.html>

Sponsored by the Hardin Library for the Health Sciences of the University of Iowa, this excellent no-frills website aims to be "a source to find the best lists, or directories, of information in health and medicine of internet resources in topics related to health and medicine." Here you will find high quality links that are kept up-to-date. It recently added a useful "Medical Pictures" section, as well.

[United States National Library of Medicine](http://www.nlm.nih.gov/)

<http://www.nlm.nih.gov/>

This is the website of the world's largest medical library. Provides access to health information, library services, research programs, news and announcements, specialized information services and a wide spectrum of other sources.

[MGH Treadway Library Home Page](http://www2.massgeneral.org/library/default.asp)

<http://www2.massgeneral.org/library/default.asp>

This is the online library of the Massachusetts General Hospital. The site provides links to library catalogs, research resources, consumer health information, electronic publications, grants and funding, medical subject directories, and other health topics.

[Medscape Today](http://www.medscape.com/home)

<http://www.medscape.com/home>

Now controlled by WebMD, Medscape includes medical specialty information, news, discussions, spotlights on special topics, and more. Browse through topics or use a search engine to look for keywords in Medscape, DrugInfo, or Medline. Registered members (registration is free) have access to a "broad range of full-text material from familiar print and electronic publications including clinical journals, clinical reference books, professional periodicals, newsletters, searchable databases, self-tests, [...] and more than 90 MEDLINE-indexed journals."

Radiation Therapy

[MedlinePlus: Radiation Therapy](http://www.nlm.nih.gov/medlineplus/radiationtherapy.html)

<http://www.nlm.nih.gov/medlineplus/radiationtherapy.html>

MedlinePlus describes itself as "a goldmine of good health information from the world's largest medical library, the National Library of Medicine." It aims to provide information for both medical professionals and for health consumers. This particular "Health Topics" page covers areas like news, overviews, research, specific conditions, dictionaries, organizations and the like in the area of Radiation Therapy. Not a bad starting point for links to reliable internet information in this field. MedlinePlus also has another base page on [Diagnostic Imaging](#) that might be of interest.

Besides the above, there are many other government-funded sites of interest. These include:

[Cancer Literature in PubMed](http://www.cancer.gov/search/pubmed/)

<http://www.cancer.gov/search/pubmed/>

Sometimes referred to as "CancerLit," this database from the [National Cancer Institute](#) site allows

you to search a sub-set of the massive Medline database specific to cancer and its treatment. To find citations and abstracts (but not full-text) to thousands of articles related to therapeutic radiation of various cancers, this is a good database to search. The Cancer Institute website also has many other useful components, including an [online dictionary](#) and a useful patient publication called [Radiation Therapy and You](#), which explains basic concepts in clear language.

[RSNA Link](#)

<http://www.rsna.org/>

Although there are professional associations just for technologists, like the [American Society of Radiologic Technologists](#), they generally don't have extensive websites. The Radiological Society of North America (RSNA), on the other hand, has a content-rich website which includes journal articles from RSNA publications like *Radiology* and *Radiographics*, as well as [Education Collections for Medical Students](#) which links to topics with radiologic-pathologic correlation from the Armed Forces Institute of Pathology (AFIP), and to award-winning resident cases from the AFIP classes. The RSNA also sponsors a [searchable index](#) to *Radiology* and *RadioGraphics*.

[Martindale's Radiology Center](#)

<http://www.martindalecenter.com/MedicalRad.html>

Jim Martindale has set up several useful webpages related to pure and applied sciences. Among them is this no-frills page, a part of his "Virtual" Medical Center. This frequently updated page includes links to Radiology Journals, "Overview" general resources, Radiology Atlases, Image Databases, and more.

[NucMed Links](#)

<http://www.nucmedlinks.com/>

With a stated purpose of "Linking the Nuclear Medicine Community," this website is a handy portal to a great many topics and resources, including associations, imaging protocols, teaching files, general medical information, radiation overview materials, and vendors. A site map and A to Z listing of links is available, and there is a search engine for the site in the upper right area of the opening page.

[BUBL LINK: Medical Imaging](#)

<http://bubl.ac.uk/link/m/medicalimaging.htm>

BUBL LINK "is the name of a catalogue of selected Internet resources covering all academic subject areas and catalogued according to DDC (Dewey Decimal Classification). All items are selected, evaluated, catalogued and described. Links are checked and fixed each month." This particular page provides a good annotated list of links for web-based medical image collections.

[Medical Imaging Links](#)

<http://marr.bsee.swin.edu.au/lectures/het408/links.html>

This annotated list of Medical Imaging Links, edited by David Liley of Swinburne University of

Technology, School of Biophysical Sciences and Electrical Engineering, Hawthorn Victoria, Australia, is part of the On-line Lecture material for Professor Liley's [Medical Imaging HET408](#): "A course designed for students to gain a solid theoretical understanding of the physics and mathematics behind the major imaging modalities currently used in clinical and biomedical research settings."

[AuntMinnie.com](#)

<http://www.auntminnie.com/>

This website, with the odd name, claims to provide "the first comprehensive community Internet site for radiologists and related professionals in the medical imaging industry. AuntMinnie provides a forum for radiologists, business managers, technologists, members of organized medicine, and industry to meet, transact, research, and collaborate on topics within the field of radiology." Registration is required to access some areas.

[Society of Nuclear Medicine](#)

<http://www.snm.org/>

The SNM "is an international scientific and professional organization founded in 1954 to promote the science, technology and practical application of nuclear medicine. Its 15,000 members are physicians, technologists and scientists specializing in the research and practice of nuclear medicine." The SNM website includes an opening page of "Hot Topics" news of the field, and an Education area that has a "Technologist Student" section. Be advised, some content, including the fulltext of the *Journal of Nuclear Medicine* are available only to members and subscribers.

[NIST: Physical Reference Data](#)

<http://physics.nist.gov/PhysRefData/contents.html>

The National Institute of Standards and Technology's Physics Laboratory sponsors this page of Physical Reference Data. Included are Fundamental Physical Constants, X-ray Transition Energies, Stopping-Power and Range Tables for Electrons, Protons, and Helium Ions, as well as a gateway to other NIST data.

[CDE Dosimetry Services, Inc.: Dose Estimates](#)

<http://www.internaldosimetry.com/linkedpages/doseestimates.html>

At this webpage "Dose Estimate Tables are Provided as a Free Service by the Radiation Internal Dose Information Center (RIDIC) and by CDE, Inc. Dosimetry Services, a private consulting firm. Separate pages are posted for adult and child dosage.

[AAPM Medical Physics Resource Page](#)

<http://www.aapm.org/links/medphys/>

The American Association of Physicists in Medicine sponsors this useful but un-annotated page of links that covers topics like Physics Data & Standards, Health Physics & Radiation Safety, Radiation Oncology, and Diagnostic Radiology, MRI, & Ultrasound Imaging.

[RadiologyEducation.com](http://www.radiologyeducation.com/)

<http://www.radiologyeducation.com/>

"RadiologyEducation.com is a digital library of radiology education resources... curated by Michael P. D'Alessandro, M.D.," of the University of Iowa Department of Radiology, Division of Pediatric Radiology. Sections include online Radiology Textbooks, Radiology Teaching Files, and Anatomy and Embryology Atlases. Dr. D'Alessandro is also responsible for [PediatricRadiology.com](http://www.pediatricradiology.com/).

diagnosticimaging.com

<http://diagnosticimaging.com>

This web companion to the trade journal, *Diagnostic Imaging*, requires free registration to access most of the content, but it can be useful for its coverage of news in the field of medical imaging. There are also a variety of "Technology Focus" archives that cover topics like the "Molecular Imaging Outlook" and "Advanced CT" developments. Since these areas have corporate sponsors, they may not be impartial, but they do indicate certain advances in technology and techniques.

Selected Print Sources

[Magill's Medical Guide](#) (5 volumes), REF RC41 .M34 2008

[Salem Health: Cancer](#) (4 volumes), REF RC265 .S32 2009

[Salem Health: Magill's Medical Guide and Salem Health: Cancer](#)

Salem Press is now offering two of its medical reference sets electronically: Magill's Medical Guide and Salem Health: Cancer. Users may limit searches to just one title, or may search across both sets. The print version of each set is available in the Sawyer Library reference section.

[Human Diseases and Conditions](#), 3 vols. and supplement.

REF RC81.A2 H75 2000

[PDR Medical Dictionary](#) 3rd ed.

REF R121 .P275 2006

[Melloni's Illustrated Medical Dictionary](#)

REF R121 .D76 2002

[Physicians' Desk Reference](#)

REF DESK RS75 .P5 2008

[PDR Guide to Drug Interactions, Side Effects, and Indications](#)

REF DESK RM302 .P37 2008

[Glossary of Biotechnology and Nanobiotechnology Terms](#), 4th ed.

REF TP248.16 .F54 2006

[The Electrical Engineering Handbook: Sensors, Nanoscience, Biomedical Engineering, and Instruments](#)

REF R857.B54 E44 2006

[Radiation Oncology Physics : A Handbook for Teachers and Students](#)

Sawyer RC271.R3 R329 2005

[Basics of PET Imaging : Physics, Chemistry, and Regulations](#)

Sawyer RC78.7.T62 S24 2005

[Radiation Therapy Physics](#)

Sawyer RM849 .H43 2005

[Radiobiology for the Radiologist](#)

Sawyer R895 .H34 2000

[The Yale Guide to Careers in Medicine & the Health Professions](#)

REF R690 .Y35 2003

[Exploring Health Care Careers](#), 2nd ed.; 2 vols.

REF R690 .E97 2002