Radiology websites: Conventional radiology

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Sprawls, Professor Emeritus, Department of Radiology, Emory University School of Medicine, Atlanta, the textbook is an open resource available without charge and is periodically updated. The material covered includes radiation, radiography, mammography, fluoroscopy, computed tomography, ultrasound, radionuclide imaging, digital image systems, and magnetic resonance imaging. For each topic there are outlines, learning objectives, teaching visuals, online modules, and a text reference. A web-based edition offering the salient topics from the 2nd edition of the textbook ‘The Physical Principles of Medical Imaging’ is available at http://www.sprawls.org/ppmi2/.

5. Medical Radiography at http://home.earthlink.net/~terrass/radiography/medradhome.html or http://web.wn.net/~usr/ricter/web/medradhome.html is a radiography and radiophysics portal maintained by Richard Terrass of the Dept. of Radiology, Massachusetts General Hospital. The site features resources on physics, radiation protection, and radiologic anatomy and education resources. Besides, there are features on radiology history, general anatomy, and medical imaging and informatics. There is an admirable quick search tool that can be very useful.

offers brief material on radiophysics.

7. ChestX-Ray.com at http://www.chestx-ray.com/ is an educative website covering the gamut of chest radiology. The site, which is curated by Jud W. Gurney, has many incisive sections. In the 'Research' section, a neat interface is available which links to MEDLINE, thoracic journals, and statistical tools. The 'Education' section deals with lectures, tutorials, unknown cases, journal club, and teaching files. The 'Practice' section is an assorted compilation of protocols and standards in thoracic imaging. It includes guidelines for treatment of contrast reactions, American College of Radiology (ACR) standards and appropriateness criteria, CT protocols, guidelines for a radiology report, solitary pulmonary nodule (SPN) calculator, doubling time calculator, and an HRCT diagnosis tool.

8. George Simon’s X-Ray Collection at http://myweb.lsbu.ac.uk/dirt/museum/g-topics.html is an educative site dealing with chest radiology. The images in the ‘George Simon Collection’ were produced for the Museum of the Royal College of Radiologists in London, England’, and were originally sold as slides. Following permission of the Wardens of the College, the work has been edited for this medium by Ian Maddison, a Radiologist. ‘The pulmonary section of ‘X-ray Museum’ is available at http://myweb.lsbu.ac.uk/dirt/museum/chestpath.html. There are special educative web pages available on topics like obstructive atelectasis, normal and pathological hilar anatomy (specifically at http://myweb.lsbu.ac.uk/dirt/museum/gs-third.html), nodular shadows in the lungs, cardiac lesions, and congenital cardiac defects in neonates. Other teaching material in pulmonary radiology is available at http://myweb.lsbu.ac.uk/dirt/museum/topics.html#chest. Similarly, the cardiology section of ‘X-Ray Museum’ is available at http://myweb.lsbu.ac.uk/dirt/museum/heartpath.html.

9. Radiology Board Review Notes at http://radiology.creighton.edu/ is a site from Creighton University with comprehensive text material on different organ systems such as musculoskeletal, chest, gastrointestinal, genitourinary etc.; it also covers different modalities such as radiophysics, mammography, and nuclear medicine. Another feature of the website is the coverage on differential diagnosis. A ‘Staging of Neoplasm’ handout, conveniently compiled in a single page is available at http://radiology.creighton.edu/staging.htm#. The website developed by James Brown et al. has additional educative sections such as ‘Resident Survival Guide,’ ‘Basic Imaging,’ ‘Interesting Cases,’ and ‘Case of the Week.’

10. CHORUS or Collaborative Hypertext of Radiology at http://chorus.rad.mcw.edu/ is available from the Medical College of Wisconsin and is edited by Charles E Kahn Jr. It is a ‘quick reference’ hypertext for physicians and medical students with more than 1,100 documents that describe diseases and radiological findings; it provides differential diagnosis lists (‘gamuts’); and relevant anatomy, pathology, and physiology. CHORUS is based on Fact/File, a radiology hypertext reference that has been used with a clinical radiology information system at the University of Chicago. This ‘quick reference’ hypertext is linked to ARRS Goldminer.

End piece

European Society of Radiology is the principal forum for radiology education and practice in Europe. The web portal of ESR/ECR is available at http://www.myesr.org/cms/website.php which has many distinctive sections that cover ‘ESR/ECR News’ and ‘Abstract Submission for the Annual ECR Conference.’ A membership is essential to experience the various academic material on offer. Some of the e-learning tools on offer are eECR (a selection of scientific highlights of ECR), EPoS™ (Electronic Presentation Online System), EDIPS (ECR’s Digital Preview System), and EURORAD. EURORAD at http://www.eurord.org/ is a large peer-reviewed teaching database of medical information, imaging data, and radiological cases. It contains ‘case reports for medical students (simple cases), residents in radiology (everyday cases), and senior radiologists (complex cases).’ EURORAD has been enhanced with new features such as a fast search engine and a multilingual navigation tool that makes it a handy online learning reference in radiology.

USS Radiology Education Gateway at http://rad.usuhs.edu/ is an educative portal from the Department of Radiology, Uniformed Services University of the Health Sciences, Bethesda. The web page maintained by Chris Quarles is multimedia packed and has many distinctive sections. They include ‘Radiologic Differential Diagnosis,’ ‘Radiologic Anatomy,’ Distance Learning Lectures,’ ‘Electronic Handouts,’ Imaging Atlas,’ and ‘Decision Support Tools.’ The neuroradiology resources include material on brain herniation, Brain Lesion Locator™, brain tumor – WHO classification, and brain vascular maps. The MedPix® database inventory at http://rad.usuhs.mil/medpix/medpix.html?mode=default, currently has 43,390 images, 10,100 teaching file cases, and 6,244 peer-reviewed topics. Fashioned by J.G. Smirniotopoulos, and H. Irvine, the educative database can be searched by disease location, by organ system, by pathology category, by patient profiles, by image classification, and by caption.