

1. Fundamentals of Human Anatomy, Physiology, Psychophysics and Pathology

Literature:

- Clinically Oriented Anatomy, K.L. Moore, A.F. Dalley, A.M.R. Agur. ISBN 978 078 177 5250
- Sobotta Atlas of Human Anatomy
- McKinley M, O'Loughlin V, Human Anatomy, McGraw-Hill, 2005.
- Textbook of Medical Physiology, A.C. Guyton, J.E. Hall. ISBN 978 141 604 5748
- Widmaier E, Raff H, Strang K., Sherman and, Luciano's Human Physiology, McGraw-Hill, 2004.
- Human Anatomy and Physiology, E.N. Marieb, K. Hoehn. ISBN 978 080 539 5914
- Medische Fysiologie, L.N. Bouman, J.A. Bernards, H.W.G.M. Boddeke. ISBN 978 903 134 6752
- Psychophysics: The fundamentals. G.A. Gescheider

3. Quality Assurance of Medical Instrumentation

Literature:

- Introduction to Biomedical Engineering, J. Enderle, S.M. Blanchard, J. Bronzino. ISBN 978 012 238 6626
- Medical Instrumentation Application and Design, J.G. Webster. ISBN 978 047 167 6003
- Clinical physics and physiological measurement, B.H. Brown et al.
- QC Light protocol (nvkf.nl – kenniscentrum)
- JM Thijssen et al, Objective Performance Testing and Quality Assurance of Medical Ultrasound Equipment, Ultrasound in Medicine & Biology, vol 33 (3). 460-471
- Introduction to acoustics. R.D. Finch

4. Principles of Medical Imaging and Image Handling

Literature:

- Buschberg JT et al. The essential physics of medical imaging, 2002
- Suetens P, Fundamentals of Medical Imaging, Cambridge University Press, 2nd ed, 2009.
- Prince JL and Links JM, Medical Imaging, Signal and systems, Pearson Education Inc, 2006.
- Van den Broek. Nucleaire Geneeskunde. Druk 3. Elsevier Gezondheidszorg. 2008.
- D.W. Townsend, Multimodality imaging of structure and function, Phys. Med. Biol. 53 (2008) R1-R39
- L.W. Goldman, Principles of CT: radiation dose and image quality, J. Nucl. Med. Technol. 35 (2007) 213-225
- L.W. Goldman, Principles of CT and CT technology, J. Nucl. Med. Technol. 35 (2007) 115-128
- R. Bitar, MR Pulse sequences, Radiographics 26 (2006) 513-537
- <http://www.cis.rit.edu/htbooks/mri/>
- P.M. Evans, Anatomical imaging for radiotherapy, Phys. Med. Biol. 53 (2008) R151-R191 naar RT-specific vol 2

5. General Safety Principles and Risk Management in the Medical Environment

Literature

- Nederlands Technische Afspraak NTA-8009 (VMS)
- Praktijkgidsen NVZ
- Besluit Medische Hulpmiddelen (zie <http://wetten.overheid.nl>)
- IEC standards publications
- Collegedictaat "Veiligheidskunde & Risico Analyse voor klinisch fysici", TU-Eindhoven
- Rohn et al., To Err is Human
- Willems, rapport "Sneller Beter"
- IAEA. Lessons Learned from Accidental Exposures in Radiotherapy, Safety Reports Series No. 17 (2000).
- VMS-Veiligheidsmanagementsysteem (www.vmszorg.nl/Veiligheidsmanagement)

- J. Shafiq et al: An international review of patient safety measures in radiotherapy practice, Radiother. Oncol. 2009; 92, 15-21.
- EU Ekaette et al. Risk analysis in radiation treatment: Application of a new taxonomic structure. Radiother. Oncol 2006; 80: 282-287.
- Dosimetrie in de Radiologie: Stralingsbelasting van de Patiënt en Werknemers. NCS Report 17, 2007, available via <http://www.stralingsdosimetrie.nl/ncs-report.php>
- Convenant Veilige Toepassing van Medische Technologie in de medisch specialistische zorg, NVZ.

6. Principles of Quality Management

Literature:

- Relevant ISO/ANSI-norms
- Stelios C. The European Federation of Organisations for Medical Physics. Policy Statement No.13: Recommended guidelines on the development of safety and quality management systems for departments. Physica Medica (2009), 161 – 165. (www.efomp.org)

7. Radiation Protection for Ionising Radiation

Literature

- NCRP report series
- ICRU report series
- ICRP report series
- IAEA Safety Standards Series No. SF-1 (2006), No 38 (2006), No. RS-G-1.5(2006), No 47 (2006) and No 16 (2000)
- Inleiding tot de stralingshygiëne, A.J.J. Bos, F.S. Draaisma, W.J.C. Okx, 2e druk, 2007

8. Health Technology Assessment (including Medical Statistics)

Recommended literature:

- Avia Petrie and Caroline Sabin, Medical Statistics at a Glance, Blackwell Science, 2000
- Glantz SA. Primer of biostatistics, McGraw Hill, 2005
- Rosner B. Fundamentals of biostatistics, Thomson, 2006
- D.G. Altman. Practical Statistics for Medical Research, Chapman & Hall, London, 1991

9. Information and Communication Technology

Recommended literature:

- W. Buchanan, Mastering networks. 2010

Websites:

- <http://medical.nema.org/>
- <http://www.ihe-nl.org/>
- <http://www.himss.org/ASP/index.asp>