

CURRICULUM VITAE - DR. WALTER HUDA

PERSONAL DATA

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Birth Place: Bradford, Yorkshire, ENGLAND

Nationality: US (2000); Canadian (1985); British by birth (European Union passport)

EDUCATION AND TRAINING

Grange Boys Senior Extended High School, Bradford (1962-1969)

General Certificate of Education (GCE) "O" level: Maths, Physics, Chemistry, Biology, Pure and Applied Maths, English Language, French, Ukrainian, History, General Studies.

General Certificate of Education (GCE) "A" level: Maths (A), Further Maths (A), Physics (A), General Studies (B).

Corpus Christi College, Oxford University (1970-1973)

BA Physics (Honours, Class 1)

Royal Postgraduate Medical School, University of London (1973-1979)

PhD Medical Physics (July, 1979) "A comparison between proton and photon excitation for X-ray fluorescence spectroscopy in trace elemental analysis of biomedical samples" (Dr. DK Bewley, Hammersmith Hospital, London)

COURSES ATTENDED

1975 (1 week) Anatomy and Physiology for Physicists, London (CPL)

1977 (4 week) Postgraduate Radiological Protection, Harwell (UK)

1978 (4 week) Advanced Radiological Protection, Harwell (UK)

1982 (2 days) Ionising Radiation Measurement, NRC, Ottawa

1983 (1 day) Computation in Radiation Therapy, CCPM, Quebec City

1984 (1 week) AAPM Summer school, Digital Imaging, Notre Dame

1985 (1 week) AAPM Summer school, MRI, Portland, OR

1987 (2 days) CCPM Symposium on Radiotherapy, Toronto

1989 (1 day) CCPM Symposium on Advances in Vascular Imaging

1990 (1 day) CCPM Symposium on Innovative Imaging Technology

1991 (5 days) AAPM Summer School on Imaging, Santa Cruz, CA

1993 (5 days) AAPM Summer School on Digital Imaging, VA

1996 (1 day) ACMP Symposium on Health Care Reform, Philadelphia

1997 (1 day) CCPM Symposium Prostate Cancer: Diagnosis and Management

1998 (1 day) CCPM Symposium on Functional Imaging

1999 (1 day) CCPM Symposium on Cardiac Imaging

2001 (1 day) CCPM Symposium Convergence of Biology and Medical Physics

MEMBERSHIP OF PROFESSIONAL BODIES

American Association of Physicists in Medicine (AAPM); Canadian Organisation of Medical Physics (COMP); Radiological Society of North America (RSNA); American College of Medical Physics (ACMP); Medical Imaging Perception Society (MIPS); Health Physics Society (HPS); Society for Radiological Protection (SRP).

CERTIFICATION

Member of the Society for Radiological Protection [1978]
Fellow Canadian College of Physicists in Medicine [1986]
American Board of Medical Physics (Diagnostic Imaging) [1989]
American Board of Radiology (Diagnostic Imaging) [2001]

EMPLOYMENT

1976 - 1982 Physicist, Amersham International Limited (UK)

1982 - 1990 Senior Physicist (Physicist up to 1987), Department of Medical Physics, Manitoba Cancer Treatment and Research Foundation, Winnipeg (Canada)

1990- 1997 Associate Professor & Director of Radiological Physics, Radiology, University of Florida, Gainesville FL

1997- 2007 Professor & Director, Radiological Physics, Radiology, SUNY Health Science Center at Syracuse, NY

2007 – Professor of Radiology, Medical University of South Carolina, Charleston SC

COURSES TAUGHT

University of Manitoba: Radiation Biophysics (16.724); Radiation Protection (16.739); Medical Imaging (16.740); Diagnostic Methods (16.741); Seminars in Medical Physics (16.725)

University of Florida: Theory of Imaging (ENU 5658); Diagnostic Methods (ENU 6657); Overview of Breast Imaging (ENU 6937); Image Science (ENU 6937); Nuclear Medicine (ENU 6659)

College of Medicine (UM; UF; SUNY HSC): Nuclear Medicine residents (UM); Radiology residents (Courses for YR's I, II & III) (UM/UF); Radiation Oncology residents (UM); Undergraduate Medical students (UM/UF); Radiology residents (SUNY HSC); Medical Student Clerkship (SUNY HSC)

Syracuse University: 458/658 Medical Imaging

Miscellaneous: Philosophy of Science (non-credit)

APPOINTMENTS

Adjunct Professor, Physics Department, UM (1982-1990); Assistant Professor, Radiology Department, UM (1982-89); Associate Professor, Radiology Department, UM (1990); Medical staff, St Boniface GH, Winnipeg (1982-1990); Scientific staff, Radiology, HSC, Winnipeg, (1982-1990); Associate Professor, Radiology, UF (1990-97); Affiliate Professor, Nuclear Engineering Sciences, UF (1991-97); Affiliate Professor, Physics, UF(1991-97); Professor, Radiology, SUNY HSC at Syracuse (1997-); Adjunct Professor, Physics Department, Syracuse University (1998-); Adjunct Professor Biomedical Engineering (2006-)

REFeree for JOURNALS & FUNDING AGENCIES

Physics in Medicine and Biology; Medical Physics; Health Physics; Journal of the Canadian Association of Radiologists; Magnetic Resonance in Medicine; Journal of Digital Imaging; Academic Radiology; Archives of Dermatology; Radiographics; Investigative Radiology; Radiology

Medical Research Council of Canada; National Science and Engineering Research Council; Manitoba Health and Research Council; Winthrop Research Foundation; BC Health Research Foundation; US Army Command

EDITORIAL ACTIVITIES

Ukrainian Journal of Radiology (Editorial Board); British Journal of Radiology (Overseas Advisory Board); Pediatric Radiology (Editorial Board); Medical Physics (Associate Editor); Journal of Applied Clinical Medical Physics (Associate Editor); Radiation Protection Dosimetry (Associate Editor); Radiology (Associate Editor)

MEMBERSHIP OF COMMITTEES

UM: Secretary of the UM Clinical Isotopes Committee (1983-1990); HSC Radiology Standards Committee (1984-1990); Chairman Nuclear Medicine QA Committee (1982-1986); Chairman MCTRF Workplace Safety and Health (1984-1986); SBGH Radiology QA Committee (1983-1990); HSC Research Advisory Committee (1986-1990); Chairman Biomedical NMR Committee (1986-1990); Chairman UM Radiology Research Committee (1987-1990)

UF: Radiology Executive Committee (1990-); Radiology PACS Committee (1990-); Co-ordinator of Radiology Basic Scientists (1990-); NES/COM Medical Physics Committee (1990-); Shands IRB committee (1994-); Radiology Management Committee (1994-); Human Use of Radiation and Radioisotope Committee (1994-); Radiology Service Committee (1994-).

SUNY HSC: Chairman, Radiology QA Committee (1997-); Radiation Safety Committee (1998-); Promotions & Tenure Committee (1998-)

ORGANIZATIONAL POSTS

Secretary/Treasurer PPC of the SNM, (1984-1988); Councillor DMBP of the CAP (1986-1988); COMP Radiation Regulation Committee (1986-1990); Board member of the CCPM (1988-92); Member of CCPM Examination Committee (1989-1992); Vice-President of the CCPM (1989-91); Editor of the Canadian Medical Physics newsletter (1986-1988); DMBP/CCPM "Constitution Committee" for the formation of the Canadian Organisation of Medical Physics (COMP) (1987-1989); Canadian MRC Grant Panel (Biomedical Engineering) (1989-1990); Canadian AECB Working Group on ICRP "90" (1990); Examiner American Board of Medical Physics (1995-); Examiner Canadian College of Physicists in Medicine (1988-); AAPM International Affairs Committee (1994-); AAPM Task Force on Computed Radiography (1992-); RSNA Committee on Radiology Resident training (1996-); RSNA Associated Science Committee (2001-); AAPM CT Noise task force (2003-); ICRU Dose & Image quality Committee (2004-); ABR Written Exam (Biology) (2005-).

RESEARCH GRANTS

1. Manitoba Health Research Council (1982-1983) \$19,260 **W Huda** (Principal Investigator) "CT dosimetry"
2. Medical Research Council of Canada (1983-1984) \$35,250 FJ Coodin (Principal Investigator), PR Desjardins, **W Huda**, RF Palser, and JB Sutherland (Co-Investigators) "X-ray fluorescence measurement of Pb in bone in vivo and relation to CNS function in humans".
3. Manitoba Health Research Council (1986-1987) \$14,200 **W Huda** (Principal Investigator) "Electron dosimetry"

4. National Cancer Institute of Canada (1988-1990) \$91,000 GA Sandison (Principal Investigator) and **W Huda** (Co-Investigator) "Electron dosimetry"
5. Small Business Innovation Research Program (1991) \$35,000 W Choi, J Walker (Consultant), **W Huda** (Consultant) & J Oliver (Consultant) "Proposal for a Large-Format Real-Time X-ray imager"
6. Small Business Innovation Research Program (1992) \$200,000 W Choi, J Walker (Consultant), **W Huda**(Consultant) & J Oliver (Consultant)"Proposal for a Large-Format Real-Time X-ray imager"
7. Dupont Inc. (1992). \$10,000 **W Huda** (Principal Investigator) "Computed Radiography (CR) *Cook Book*".
8. Whitaker Foundation (1993-96) \$179,920 A Laine (Principal Investigator), **W Huda**, JC Honeyman & B Steinbach (Co-Investigators) "Wavelet Processing for Digital Mammography"
9. US Army Medical Research Command (1993-97) \$1,429,993 A Laine (Principal Investigator) **W Huda**, JC Honeyman and B Steinbach (Co-Investigators) "Wavelet Representation for Digital Mammography"
10. Small Business Innovation Research Program (Phase 1 SBIR) (1993) \$50,000 W Choi (Principal Investigator), A Richardson & M Seufert (Co-Investigators), J Walker (Consultant), **W Huda** (Consultant) & J Oliver (Consultant) "High-resolution SPECT"
11. US Army Medical Research & Development Command (1994-1996) \$40,000 **W Huda** (Principal Investigator) & JK Walker (co-Principal Investigator) Pre Doctoral Fellowship (Z Jing) "Digital Mammography Detector"
12. Whitaker Foundation (1994-1997) \$180,000 B Vemuri (Principal Investigator), C Leonard, **W Huda** and AA Mancuso (Co-Investigators) "Multi-resolution Stochastic 3D Shape Models for Segmentation of Shapes from Brain MRI"
13. Kodak Inc. (1995-1996) \$100,000 JC Honeyman (Principal Investigator), **W Huda** & EV Staab (Co-Investigators)"PACS and CR"
14. US Army Medical Research & Development Command (1997-2000) \$120,000 Z Jing (Principal Investigator) & **W Huda** (Co-Principal Investigator "High resolution slot xray imaging detector for digital mammography? Post Doctoral Fellowship (Z Jing)
15. Department of Radiology (1998/9), SUNY Health Science Center at Syracuse, \$10,000 **W Huda** (Principal Investigator) "Patient dosimetry"
16. Wellcome Burroughs Fund (March/April 1999), \$6,150 **W Huda** (Mini-sabbatical at the Royal Marsden Hospital in London) "Digital Mammography"
17. InfiMed Inc., (1999) \$35,000 **W Huda** (Principal Investigator) and EM Scalzetti (Co-Investigator) "Clinical evaluation of a commercial flat panel detector"
18. General Electric (2000-2001) \$30,000 **W Huda** (Principal Investigator) and K Phadke (Co-Investigator) "Patient dosimetry in digital cine cardiology"
19. US Army Medical Research and Material Command. (2000-2003), \$326,017 (Total costs) **W Huda** (PI), DR Dance (CI), EM Scalzetti (CI) "Radiographic techniques and lesion detection performance in digital mammography".
20. SUNY Upstate Medical University. (2001-2002), \$64,500. EM Scalzetti (PI), **W Huda** (CI) "Development of an image processing algorithm for radiography and CT: Contrast Enhancement by Digital Equalization (CEDE).

21. SUNY Upstate Medical University. (2001-2002), \$22,600. J Chang (PI), **W Huda** (CI), K Lieberman (CI) "Reducing iodine and radiation in (contrast) head CT scans.
22. SUNY Upstate Medical University (2003-2005), \$38,742. EM Scalzetti (PI), **W Huda** (CI). Dose and image quality in CT".
23. NIH (2004-2007), \$823,000 (RO1), **W Huda** (PI), KM Ogden (CI), EM Scalzetti (CI), E Samei (CI), Dose and image quality in adult and pediatric CT.
24. RSNA (2005-2006), \$75,000 (WWW Educational Program Grant) **W Huda** (co-PI), JA Seibert (co-PI), K Ogden (CI). Physics Teaching File for Radiology Residents.

AWARDS/HONORS

Silver Spoon Award (Resident Teaching award) 1994 (UF)
 Silver Ladle Award (Resident Teaching award) 1995 (UF)
 Silver Spade Award (Resident Teaching award) 1996 (UF)
 Silver Bucket Award (Resident Teaching award) 1997 (UF)
 E Robert Heitzman Award - Teaching Excellence 1998 (SUNY/Syracuse)

Fellow of the American Association of Physicists in Medicine (2001)
 Honorary Member of the Society for Paediatric Radiology (2002)

Radiology Editor's Recognition Award for reviewing with Distinction 2002, 2003 and 2004.

Honorable Mention (Poster Competition). Jing X, **Huda W**, Walker JK. *Detective Quantum Efficiency of Plastic Scintillating Fiber Screens For Mammography*, 1996 SPIE Medical Imaging (Newport Beach, CA).
 Certificate of Merit (Scientific Exhibit Award). Rill LN, **Huda W**, Geiser WR, Gkanatsios NA. *Viewbox luminance measurements and their effect on reader performance*. 1996 RSNA Meeting (Chicago, IL).
 Honorable Mention (Poster Competition). **Huda W**, Qu G, Jing Z, Steinbach BG, Honeyman JC. *How does observer training affect imaging performance in digital mammography?* 2000 SPIE Medical Imaging (San Diego, CA).
 The RIT Award for Excellence for the best diagnostic imaging paper in J Applied Clinical Medical Physics. *Radiographic techniques in screen-film mammography*. TR LaVoy, **W Huda**, Kent M. Ogden (2002)
 Cum Laude (Scientific Exhibit Award). Rizzo SM, Kalra MK, Maher MM, Miller JC, Greene MF, Huda W. *Radiological investigations during pregnancy: Issues, concerns, and strategies*. 2004 RSNA (Chicago, IL).
 Honorable Mention (Poster Competition). Ogden KM, Oberlander A, **Huda W**, Roskopf ML. Quantifying the effect of monitor display settings on observer performance. 2005 SPIE *Medical Imaging* (San Diego, CA). (Special Merit).
Huda W, Ogden KM, Boone JM, Nickoloff EL. How well do CTDI data obtained in a body phantom predict patient and embryo doses in abdominal CT? 2006 AAPM (Orlando, FL).

BOOKS

1. **Huda W** and Slone RM. Review of Radiologic Physics. Williams & Wilkins (1995) 286 pp.
2. **Huda W** and Slone RM. Review of Radiologic Physics. 2nd Edition, Lippincott, Williams & Wilkins (2003) 267 pp.
3. Frush DP and **Huda W** (Editors). Categorical Course in Diagnostic Radiology Physics: The Science and Practice of X-ray Imaging and Radiation Dose Optimization. RSNA (2006) 241 pp.

PUBLICATIONS (Refereed Journals)

1. **Huda W**. "Proton induced X-ray fluorescence of thick samples in air for trace elemental analysis" *Nuclear Instruments and Methods* **158** (1979) 587-594.
2. **Huda W** and Bewley DK. "X-ray emission analysis of human plasma by proton excitation of thick samples in air" *Physics in Medicine and Biology* **24** (1979) 711-720.
3. **Huda W** and Bewley DK. "A comparison between proton and photon excitation for X-ray analysis of plasma" *Nuclear Instruments and Methods* **177** (1980) 513-520.
4. **Huda W**. "Is energy imparted a good measure of the radiation risk associated with CT examinations?" *Physics in Medicine and Biology* **29** (1984) 1137-1142.
5. **Huda W** and Sandison GA. "Estimation of mean organ doses in diagnostic radiology from Rando phantom measurements" *Health Physics* **47** (1984) 463-467.
6. **Huda W** and Sandison GA. "CT dosimetry and risk estimates" *Radiation Protection Dosimetry* **12** (1985) 241-249.
7. **Huda W** and Sandison GA. "The use of the effective dose equivalent, H_E , as a risk parameter in Computed Tomography" *British Journal of Radiology* **59** (1986) 1236-1238.
8. **Huda W**. "CT quality control" *Journal of the Canadian Association of Radiologists* **38** (1987) 122-125.
9. **Huda W**, Sourkes AM and Tracy BL. "Chernobyl - the radiological impact on Canada" *Journal of the Canadian Association of Radiologists* **39** (1988) 37-41.
10. Sandison GA and **Huda W**. "Application of Fermi scattering theory to a magnetically scanned electron linear accelerator" *Medical Physics* **15** (1988) 498-510.
11. Dunscombe PB, McLellan J, **Huda W** and Gillies JM. "Patient activation with a 25 MV therapeutic X-ray beam" *British Journal of Radiology*, **61** (1988) 843-846.
12. Gallagher CG, **Huda W**, Rigby M, Greenberg ID, Younes M. "Lack of radiographic evidence of interstitial pulmonary edema after maximal exercise in normal subjects" *Amer. Rev. Respiratory Disease* **137** (1988) 474-476.
13. **Huda W** and Gordon K. "Nuclear Medicine staff and patient doses in Manitoba (1981-1985)" *Health Physics* **56** (1989) 277-285.
14. **Huda W**, Sandison GA and Lee TY. "Patient doses from computed tomography in Manitoba from 1977 to 1987" *British Journal of Radiology* **62** (1989) 138-144.
15. **Huda W** and Scrimger JW. "Irradiation of volunteers in nuclear medicine" *Journal of Nuclear Medicine* **30** (1989) 260-264.
16. Sandison GA and **Huda W**. "Is the "fictitious" virtual source a redundant concept for scanned therapeutic electron beams?" *Physics in Medicine and Biology* **34** (1989) 369-378.
17. **Huda W**, Lentle B and Sutherland JB. "The effective dose equivalent in radiology" *Journal of the Canadian Association of Radiology* **40** (1989) 3-4 (Refereed Editorial).

18. Sutherland JB and **Huda W**. "Costs and benefits of low-osmolality contrast agents in Radiology" *Journal of the Canadian Association of Radiologists* **40** (1989) 18-21.
19. **Huda W** and Sandison GA. "The use of the effective dose equivalent, H_E , for ^{99m}Tc labelled radiopharmaceuticals" *European Journal of Nuclear Medicine* **15** (1989) 174-179.
20. **Huda W**, Sandison GA, Palser FR and Savoie D. "Radiation doses and detriment from chest X-rays" *Physics in Medicine and Biology* **34** (1989) 1477-1492.
21. **Huda W**, Bews J and Sourkes AM. "Occupational doses in radiation oncology in Manitoba - 1980 to 1986" *Health Physics* **57** (1989) 521-527.
22. **Huda W**, Bews J and Saydak A. "Radiation doses in extracorporeal shock wave lithotripsy". *British Journal of Radiology* **62** (1989) 921-926.
23. Sandison GA, **Huda W**, Battista JJ and Savoie D. "Comparison of methods to determine electron pencil beam spread in tissue equivalent media" *Medical Physics* **16** (1989) 881-888.
24. **Huda W** and Sourkes AM "Individual and population doses in Manitoba from chiropractic X-ray procedures" *Journal of Radiological Protection* **9** (1989) 241-245.
25. **Huda W** and Sourkes AM. "Radiation doses from chest X-rays in Manitoba (1979 and 1987)" *Radiation Protection Dosimetry* **28** (1989) 303-308.
26. **Huda W**, Gordon K and Greenberg ID. "Diagnostic thyroid procedures and corresponding radiation doses in Manitoba: 1981-1985" *Health Physics* **59** (1990) 287-293.
27. **Huda W** and Bews J. "Population Irradiation Factors (PIFs) in diagnostic medical dosimetry" *Health Physics* **59** (1990) 345-347.
28. **Huda W** and Bissessur K. "Effective dose equivalents, H_E , in diagnostic radiology" *Medical Physics* **17** (1990) 998-1003.
29. **Huda W**, Sourkes AM, Bews J, and Kowaluk R. "Radiation doses due to breast imaging in Manitoba: 1978-1988" *Radiology* **177** (1990) 813-816.
30. **Huda W** and Sandison GA. "Estimates of the effective dose equivalent, H_E , in positron emission tomography studies" *European Journal of Nuclear Medicine* **17** (1990) 116-120.
31. McLellan J, Sandison GA, Papiez L and **Huda W**. "A restricted angular scattering model for electron penetration in dense media" *Medical Physics* **18** (1991) 1-6.
32. Bartkiewicz B, **Huda W**, and Macfarlane Y. "Impact of gamma camera parameters on imaging performance, evaluated by receiver operating characteristic (ROC) analysis" *Physics in Medicine and Biology* **36** (1991) 1065-1075.
33. **Huda W**, Bews J, Gordon K, Sutherland JB, Sont WN and Ashmore AJ. "Doses and population irradiation factors for Canadian radiation technologists (1978-1988)." *Journal Canadian Association of Radiologists* **42** (1991) 247-252.
34. **Huda W**, McLellan J and McLellan Y. "How will the new definition of "effective dose" modify estimates of dose in diagnostic radiology?" *Journal of Radiological Protection* **11** (1991) 241-247.
35. McLellan J, Papiez L, Sandison GA, **Huda W** and Therrien P. "A numerical method for electron transport calculations"

Physics in Medicine and Biology **37** (1992) 1109-1125.

36. Feygelman VM, **Huda W** and Peters KR "Effective dose equivalents to patients undergoing cerebral angiography" *American Journal of Neuroradiology* **13** (1992) 845-849.

37. Rickey D, Gordon R and **Huda W** "On lifting the inherent limitations of positron emission tomography (PET) using magnetic fields (MagPET)" *Automedica* **14** (1992) 355-369.

38. **Huda W**, Jing Z and Hoyle B " Film density calibration for computed radiography systems: Is the standard three-point procedure accurate?" *Radiology* **188** (1993) 875-877.

39. Laine A, Schuler S, Fan J and **Huda W** "Mammographic feature enhancement by multiscale analysis". *IEEE Transactions on Medical Imaging* **13** (1994) 725-740.

40. **Huda W** and Peters K. "Radiation induced temporary epilation after a neuroradiologically guided embolization procedure" *Radiology* **193** (1994) 642-644.

41. Atherton JV and **Huda W**. " CT doses in cylindrical phantoms" *Physics in Medicine and Biology* **40** (1995) 891-911.

42. **Huda W** and Atherton JV. "Energy imparted in computed tomography" *Medical Physics* **22** (1995) 1263-1269.

43. Laine A, **Huda W**, Steinbach BG and Honeyman JC "Mammographic image processing using wavelet processing techniques" *European Radiology* **5** (1995) 518-523.

44. Mukherji SM, Castillo M, **Huda W**, Suojanen J, Kubilis P, Tart RP and Dhillon G "Comparison of dynamic and spiral CT for imaging the glottic larynx" *Journal of Computer Assisted Tomography* **19** (1995) 899-904.

45. **Huda W**, Honeyman JC, Frost MM and Staab EV "A cost analysis of computed radiography and picture archiving and communications system in portable radiography" *Journal of Digital Imaging* **9** (1996) 39-44.

46. Qu G, **Huda W** and Beldon C "Comparison of trained and untrained observers using subjective and objective measures of imaging performance" *Academic Radiology* **3** (1996) 31-35.

47. **Huda W**, Honeyman JC, Palmer CK, Frost MM and Staab EV "Computed radiography and film digitizer inputs to an Intensive Care Unit teleradiology system: An image quality comparison" *Academic Radiology* **3** (1996) 110-114.

48. Honeyman JC, **Huda W**, Frost MM, Palmer KC and Staab EV. "Picture Archiving and Communication System Bandwidth and Storage Requirements" *Journal of Digital Imaging* **9** (1996) 60-66.

49. **Huda W**, Slone RM, Belden C, Williams JL, Cumming WA and Palmer CK "Mottle on computed radiographs of the chest in pediatric patients" *Radiology* **199** (1996) 249-252.

50. **Huda W** and Morin RL. "Patient doses in bone mineral densitometry." *British Journal of Radiology* **69** (1996) 422-425.

51. Atherton JV and **Huda W** "Energy imparted and effective doses in computed tomography" *Medical Physics* **23** (1996) 735-741.

52. Gravenstein D, Lampotang S, **Huda W** and Sultan A. "Basic principles of optical radiation and some common applications in anesthesia" *Journal of Clinical Monitoring* **12** (1996) 445-454.

53. Geiser GR, **Huda W** and Gkanatsios "Effect of patient support pads on image quality and patient dose in fluoroscopy" *Medical Physics* **24** (1997) 377-382.
54. **Huda W**, Atherton JV, Ware DE and Cumming WA "An approach for the estimation of effective radiation doses at CT in pediatric patients" *Radiology* **203** (1997) 417-422.
55. Gkanatsios N and **Huda W** "Computation of energy imparted in diagnostic radiology" *Medical Physics* **24** (1997) 571-579.
56. Gkanatsios NA, **Huda W**, Peters KR and Freeman J "Evaluation of an on-line patient exposure meter in neuroradiology" *Radiology* **203** (1997) 837-842.
57. **Huda W**, Rill L, Benn DK and Pettigrew JC "Comparison of a photostimulable phosphor system with film for dental radiology" *Oral Radiology* **83** (1997) 725-731.
58. **Huda W**, Steinbach BG, Geiser WR and Belden CJ "Optimal technique factors for magnification mammography" *Investigative Radiology* **32** (1997) 378-381.
59. **Huda W**, Belden C, Webb L and Palmer CK. "Support line and tube visibility in chest examinations using computed radiography" *J Digital Imaging* **10** (1997) 126-131.
60. **Huda W** and Gkanatsios NA "Effective dose and energy imparted in diagnostic radiology" *Medical Physics* **24** (1997) 1311-1316.
61. **Huda W**, Rill L and Properzio A "Relative speeds of Kodak computed radiography phosphors and screen-film systems" *Medical Physics* **24** (1997) 1621-1628.
62. **Huda W**, Smith DA and Staab EV "Current status of computed radiography in emergency departments" *J of Digital Imaging* **10** (1997) 139-146.
63. **Huda W** "Radiation dosimetry in diagnostic radiology" *AJR* **169** (1997) 1487-1488.
64. Jing Z, **Huda W** and Walker JK "Scattered radiation in slot scanning mammography" *Medical Physics* **25** (1998) 1111-1117.
65. **Huda W** and Gkanatsios NA "Radiation dosimetry for extremity radiographs" *Health Physics* **75** (1998) 492-499.
66. **Huda W** "What do radiation experts *really* think are reasonable dose limits for occupational exposure?" *RSO Magazine* Nov/Dec (1998) 22-24.
67. Ioannou D, **Huda W** and Laine AF "Circle Recognition through a 2D Hough Transform and radius histogramming" *Image & Vision Computing* **17** (1999) 15-26.
68. Ware DE, **Huda W**, Mergo PJ and Litwiller AL "Radiation effective doses to patients undergoing abdominal CT examinations" *Radiology* **210** (1999) 645-650.
69. Ende JF, **Huda W**, Ros PR and Litwiller AL "Image mottle in abdominal CT" *Investigative Radiology* **34** (1999) 282-286.
70. Rill LN, **Huda W**, and Gkanatsios N "Viewbox luminance measurements and their effect on reader performance" *Academic Radiology* **6** (1999) 521-529.

71. Rosenbaum AE, **Huda W**, Lieberman KA and Caruso RD “True 3-D through stereo processing of rotating images” *Academic Radiology* **7** (2000) 21-26.
72. **Huda W**, Scalzetti EM, and Roskopf ML “Effective doses to patients undergoing thoracic CT examinations” *Medical Physics* **27** (2000) 838-844.
73. Chamberlain CC, **Huda W**, Hojnowski LS, Perkins and A Scaramuzzino A “Radiation doses to patients undergoing scoliosis radiography” *British Journal Radiology* **73** (2000) 847-853.
74. **Huda W**, Scalzetti EM and Levin G “Technique factors and image quality as a function of patient weight at abdominal CT” *Radiology* **217** (2000) 430-435.
75. **Huda W**, Chamberlain CC, Rosenbaum AE and Garrisi W “Radiation doses to infants and adults undergoing head CT examinations” *Medical Physics* **28** (2001) 393-399.
76. Ravenel JG, Scalzetti EM, **Huda W** and W Garrisi “Radiation exposure and image quality in chest CT examinations” *AJR* **177** (2001) 279-284.
77. **W Huda** and SC Bushong. “In x-ray computed tomography, technique factors should be selected appropriate to patient size.” (Point/Counter/Point Editorial) *Medical Physics* **28** (2001) 1543-1545.
78. LaVoy TR, **Huda W**, and Ogden K. “Radiographic techniques in screen-film mammography.” *Journal of Applied Clinical Medical Physics* **3** (2002) 248-254.
79. Gkanatsios NA, **Huda W** and Peters KR “Adult patient doses in interventional neuroradiologically” *Medical Physics* **29** (2002) 717-723.
80. Gkanatsios NA, **Huda W** and Peters KR “Effect of radiographic techniques (kVp and mAs) on image quality and patient doses in digital subtraction angiography” *Medical Physics* **29** (2002) 1643-1650.
81. Halama JR and **Huda W**. “Should medical physicists assume PACS responsibilities?” (Point/Counter/Point Editorial) *Medical Physics* **29** (2002) 1913-1915.
82. **Huda W**, Sajewicz A, Ogden KM, and Scalzetti EM. “How good is the ACR accreditation phantom for assessing image quality in digital mammography?” *Academic Radiology* **9** (2002) 764-772.
83. **Huda W**, Ravenel JG, and Scalzetti EM. “How do radiographic techniques affect image quality and patient doses in CT?” *Seminars in Ultrasound, CT and MR* **23** (2002) 411-422.
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