

PROF. YOUSIF ABDALAH

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I am a professor of radiology at Majmaah University, where I have been teaching and researching for over 18 years. I have a PhD in radiation therapy and a master's degree in nuclear medicine, and I am passionate about advancing the knowledge and application of these fields to improve the diagnosis and treatment of cancer and other diseases. My core competencies include mentoring and instructing students and professionals, conducting and publishing original and impactful research, and providing clinical and consulting services to various institutions and hospitals. I have written multiple books and papers on the quality control, safety, and effectiveness of radiopharmaceuticals and radiotherapy equipment, contributing to the scientific and medical community. I am also a certified instructor of the Virtual Environment of Radiation Therapy (VERT), a state-of-the-art simulation tool that enhances the education and training of radiation therapy students and professionals. I enjoy sharing my expertise and insights with my colleagues and students, and I am always eager to learn from them as well.

EXPERIENCE

PROFESSOR

Department of Radiological Sciences and Medical Imaging, College of Applied Majmaah University, Saudi Arabia.

Nov. 2022 - present

PROFESSOR (ASSOCIATE)

Department of Radiological Sciences and Medical Imaging, College of Applied Majmaah University, Saudi Arabia.

Nov. 2018 – October 2022

PROFESSOR (ASSISTANT)

Department of Radiological Sciences and Medical Imaging, College of Applied Majmaah University, Saudi Arabia.

Mar. 2015 – Nov. 2018

PROFESSOR (ASSISTANT)

Department of Radiotherapy and Nuclear Medicine, College of Medical Radiologic Science, Sudan University of Science and Technology, Sudan.

Mar. 2013 – July. 2017

LECTURER

Department of Radiotherapy and Nuclear Medicine, College of Medical Radiologic Science, Sudan University of Science and Technology, Sudan.

Dec. 2008 – Jun. 2013

TEACHING ASSISTANT

Department of Radiotherapy and Nuclear Medicine, College of Medical Radiologic Science, Sudan University of Science and Technology, Sudan.

Sept. 2006 – Nov. 2008

EDUCATION

- B.Sc. Radiological Science, October 2005, Sudan University of Science and Technology
M.Sc. Radiological Science, November 2009, Sudan University of Science and Technology
Ph.D. Radiological Science, June 2013, Sudan University of Science and Technology; graduate work in radiation therapy technology, radiation therapy and radiation oncology.
M.Sc. Radiological Science, March 2015, National cancer Institute, University of Gazeria: graduate work in nuclear medicine.

SKILLS

- Radiological Science
- University Teaching
- Radiation Oncology
- Scientific Research
- Image processing
- Medical Research
- Radiation Protection
- Academic Administration

PUBLICATIONS

Book Chapters

1. An Introduction to Dental Radiography: Theory and Practice 11/2018; LAMBART Academic Publishing GmbH & Co. KG, Germany, ISBN: 9783848421169
2. Quality Control of Technetium-99 Generator, Theory and Practice, 03/2012; LAMBART Academic Publishing GmbH & Co. KG, Germany, ISBN: 9783848421169
3. A short Textbook on Care of patient in Radiotherapy Department., 03/2012; LAMBART Academic Publishing GmbH & Co. KG, Germany., ISBN: 9783848432318
4. An Introduction to PACS in Radiology Service: Theory and Practice. 02/2012; LAP LAMBERT Academic Publishing, ISBN: 978-3846588987
5. Analysis of Respiratory Motion in Chest Organs: During External Beam Radiotherapy. 01/2012; LAP LAMBERT Academic Publishing., ISBN: 978-3847335726
6. Application of Analysis Approach in Noise Estimation: Using Image Processing Program. 12/2011; LAP LAMBERT Academic Publishing, ISBN: 978-3847331544
7. A Short Guide To Radiation Mold Technology, A manual for daily use. 12/2010; LAMBART Academic Publishing GmbH & Co. KG., ISBN: 9783843371827
8. A Computed Verification of Radiation and Light Field Size on Cobalt-60_ Verification of Fields Size using Image Processing Technique. 10/2010; Lambert Academic Publishing., ISBN: 978-3-838399096
9. Characterization of Brain Stroke Using Image and Signal Processing Techniques, Biomedical Signal and Image Processing. IntechOpen, 2021. ISBN: 9781839684456
10. The Role of Magnetic Resonance Imaging (MRI) in Autonomic Nervous System Monitoring, Autonomic Nervous System Monitoring - Heart Rate Variability. IntechOpen, 2019. ISBN: 9781838805197
11. Application of Medical Imaging in Diagnosis and Assessment of Myocarditis and Pericarditis, Inflammatory Heart Diseases. IntechOpen, 2020. ISBN: 9781789852769
12. Research in Medical Imaging Using Image Processing Techniques, Medical Imaging - Principles and Applications. IntechOpen, 2019. ISBN: 9781789238723

Journal Publications

1. Fawaz Alqahtani, M.K. Saeed, **Yousif Mohamed Y. Abdallah**, K. Alshamrani, Would lead shielding the eye lenses during a head CT be beneficial?, Radioprotection, 2023: 58(3):221-228
2. Mohammed Khalil Saeed, **Yousif Mohamed Y. Abdallah**, Ibrahim Y. Hakeem, Fawaz F. Alqahtani, Patient radiation dose estimation during pelvis, hip joint and lumbar spine radiography in Majmaah city, Saudi Arabia hospital, Radiation Physics and Chemistry, 2023:209(1)
3. Mohamed Khalil Saeed, **Yousif Abdallah**, Abdelmonem Suilman, Mohamed Omer and Ali Sid Ahmed, Patient Radiation Doses Assessment at Diagnostic X-rays Department of King Khalid hospital (KKH)-Majmaah, Current Medical Imaging, 2023:19
4. Nissren Tamam, Abdelmoneim Sulieman, Hassan Salah Ibrahim, Kholoud S. Almogren, D. A. Bradley, **Yousif Mohamed Y. Abdallah**, Evaluation of patients' and occupational radiation risk dose during conventional and interventional radiology procedures, Radiation Physics and Chemistry, 2023:207(5)

5. Mohammed K Saeed, Hassan, **Yousif M Abdullah**, Abdelmoneim Sulieman, Three-dimensional conformal radiotherapy breast cancer planning: An evaluation study comparing two techniques using homemade phantom, *Radioprotection*;2022;57(2)
6. Mohammed K Saeed, Hassan, **Yousif M Abdullah**, Abdelmoneim Sulieman, Assessment of patient radiation dose during skull X-ray examinations in King Khalid Hospital in Majmaah, *Radiation Physics and Chemistry*, 2022(11), 201.
7. Mohammed K Saeed, Hassan A Alshamrani, Abdelmoneim Sulieman, **Yousif M Abdullah**, Mohamed Yousef, Ali S A M Ali, Khalaf A Alshamrani, , Automated Estimation of Patient's Size Using Autowed Tool and Indosect Program: A Dosimetric Study for Paediatric Head CT Examinations, *Radiation Protection Dosimetry*, 2022, 198(16), 1238–1243
8. Bahaaedin Elkhader, **Yousif M. Abdallah**, Pediatric Scrotal Ultrasound for Detection of Infertility Etiology, *Journal of Research in Medical and Dental Science*, 2022, 04(04)
9. Sami Elgak, **Yousif M. Abdallah**, Bahaaedin Elkhader, Role of ultrasound in the diagnosis of gallbladder disorders in KSA-Asian Patients in associated of nationally and occupation, *Magna Scientia Advanced Research and Reviews*, 2022, 04(01), 039–048
10. **Yousif M. Abdallah**, Sami Elgak, Mohamed Alanzi, Norah Alshahrani, Ghaliah Alfuraih, Mohamed Rafiq, Nagi Ali, Color-Based Clustering Algorithms Segmentation of Malignant Leukemia Cells, *International Journal of Science and Research (IJSR)*, 11(2),2022, 1220 – 1225
11. **Yousif M. Abdallah**, Nouf Abuhadi, Alabbas Abiad, Bahaeldin Atta, Abdulrahman M. Alzandi, Study of lung respiratory motion influence in patients undertake external beam radiotherapy, *Oncology and Radiotherapy* 16 (1) 2022: 30- 37
12. **Abdallah Y.** Detection of Cardiac Tissues using K-means Analysis Methods in Nuclear Medicine Images. *Open Access Maced J Med Sci*. 2021;9(A):1272-1276.
13. **Yousif M. Abdallah**, Study of the guidelines and approaches of breast carcinoma management during the COVID-19 pandemic, *Onkologia i Radioterapia*. 2021.15(10)16-21.
14. **Yousif Abdallah**, Galaleldin Ibrahim, Nouf Abuhadi, Ghazali M. Abdel Gadir & Elabbas Ebaid, Characterization of myocardium anomalies using watershed-based segmentation approaches in nuclear cardiology, *Imaging in Medicine* (2021)13:9:1 - 6
15. **Yousif M. Abdallah**, Mohamed M. Yousef, Eltayeb W. Eltayeb, Automated Enhancement of Myocardium Images using Image Processing Methods, *International Journal of Science and Research (IJSR)*, 10(7) 2021:557 - 564
16. **Yousif M. Abdallah**, Mohamed M. Yousef, Eltayeb W. Eltayeb, Characterization of Myocardial Diseases Using Image Processing Technique, *International Journal of Science and Research (IJSR)*, 10(6),2021, 1170 - 1174
17. **Abdallah Y.** Measurement of Entrance Skin Dose in Radiographic Examinations of Pediatric Patients. *Curr Med Imaging*. 2021;17(11):1385-1389.
18. Tagwa H Basheer, Mohamed Ahmed, Elimam Ounsa, **Yousif M. Abdallah**, Comparison of Sociodemographic Characteristics and Fetal Outcome, *J Res Med Dent Sci*, 2021,9(2): 12-16.
19. **Yousif M. Abdallah**, Nouf H Abuhadi, Maryam Hasan Hugri, Enhancement of Dental X-rays Images Using Image Processing Techniques, *J Res Med Dent Sci*, 2021, 9 (2): 12-16.
20. **Yousif M Abdallah**, Nouf H Abuhadi, Hanan A Aldousari, Assessment of Mean Glandular Dose and Entrance Surface Dose in Mammography, *J Res Med Dent Sci*, 2021, 9 (2): 8-11.
21. **Yousif M. Abdallah**, Delineation of brain tumours for radiotherapy patients using image segmentation techniques, *Onkologia i Radioterapia*. 2020. 14(5).
22. **Yousif M. Abdallah**, Mujtaba E Abdullah, Tariq Alqahtani and Nouf H. Abuhadi, Study of a five years survival rate of cancer in Sudanese, *Onkologia i Radioterapia*. 2020. 14(3)
23. Hussam Zain, Yousif Abdallah, Wifag Mustafa , Rayan G Albarakati, Cesarean Delivery in Majmaah, Saudi Arabia: prevalence, indications and complications, *Majmaah Journal of Health Sciences* ,2020: 8,(3):37
24. **Y. Abdallah**, Segmentation of Brain Stroke Lesions using Marker-based Algorithms in CT images, 3rd International Conference on Computer Applications & Information Security (ICCAIS), 2020, pp. 1-4,
25. **Yousif M. Abdallah**, NH Abuhadi. Entrance Skin Dose Measurement for Diagnostic Spinal Radiographic Examinations in King Khalid Hospital, Saudi Arabia: A Prospective Study. *J Clin of Diagn Res*.2020; 14(3):TC01-TC04.
26. **Yousif M. Abdallah**, , Zaki, W., Ahmadoun, B., & Musa, A.. Design of Reference Phantom for Quality Control of Conventional X-ray Radiography Units in Port Sudan. *Journal of Biomedical Engineering and Medical Imaging*, (2020):7(1), 01–09.
27. Hussam Zain, Rayan G Albarakati, **Yousif M. Abdallah**, Almuteri Hayfallah , Sami Elgak, Elsadig Y. Mohamed, Elabbas A. Ebaid, Clinical analysis of ectopic pregnancies in Majmaah, Saudi Arabia. *Journal*

- of Biomedical Research-India 09/2019; 30(5).
28. **Yousif M. Abdallah**, Nouf Hussain Abuhadi, Dalia Bilal, Characterisation of Breast Cancer Lesions using Image Processing Based Technique, Journal of Clinical and Diagnostic Research Current , 08(2019); 13(8). 06-09
 29. Nagi I. Ali, Sami N.A. Elgak, **Yousif M. Abdallah**, Hajo Idriss. Assessment of Iodine Supplementation Program on Thyroid Function in Sudan, Diabetes & Metabolic Syndrome: Clinical Research & Reviews. 13 (2019):678-680
 30. **Yousif M. Abdallah**, Sami Elgak, Hosam Zain, Mohammed Rafiq, Elabbas A. Ebaid, Alaeldein A. Elnaema, Breast cancer detection using image enhancement and segmentation algorithms. Journal of Biomedical Research-India 01(2019); 29(1).
 31. **Yousif M. Abdallah**, Improvement of Sonographic Appearance Using HAT-TOP Methods, Journal of Biomedical Engineering and Medical Imaging 10/2018; 5(6).
 32. **Yousif M. Abdallah**, Abdallah O. Alamoudi. Segmentation of Myocardium Tissues Using Assembly and Color Analysis Methods, Current Medical Imaging Reviews, 08/2018; 13(4)
 33. **Yousif M. Abdallah**, History of Medical Imaging. Archives of Medicine and Health Science 2018;5:275-8.
 34. Nagi I. Ali, Abdullah O. Alamoudi, **Yousif M. Abdallah**, The Use of Nuclear Medicine Invitro Technology to Study the Effect of Malnutrition on children's Thyroid Function. Majmaah Medical Journal 11/2017:13(5)
 35. **Yousif M. Abdallah** and Eltom M. Evaluation of Palliative Care, Pain Management in Patients Receiving Chemo-Radiation in Sudan. SMU Medical Journal 07/2017; 4(2).
 36. Fahad A. Mohamed, **Yousif M. Abdallah**, and Mohamed E.M. Gar-elnabi. (2017). Tumor metastasis Dilemma: bone scan and PSA level in relation to prostatic malignancy among Sudanese. International Journal of Research - Granthaalayah, 5/2017:5(5), 275-280.
 37. **Yousif M. Abdallah**, Evaluation of cardiac output, Ejection fraction and Stroke Volume using Nuclear medicine, Majmaah Journal of Health Science, 05/2017; 5(1)
 38. Yousif M. Abdallah, Segmentation of heart tissues using gathering and colour analysis techniques, Biomedical Research-India, 03/2017; 28(6)
 39. **Yousif M. Abdallah**, Abdallah O. Alamoudi, Sami N.A. Elgak. Appraisal of mean glandular dose (MGD) during mammography examinations, International Journal of Advanced and Applied Sciences 02/2017; 4(2)
 40. **Yousif M. Abdallah**, Wafa F. Orsid, Calculation of Radiation Dose Received in Cervical Vertebrae (C/S) Examination. International Journal of Scientific Research 07/2016; 5(7).
 41. **Yousif M. Abdallah**, Eba'a Mohamed. Improvement of Bone Scintigraphy Image Using Image Texture Analysis. International Journal of Clinical Medicine Research. Vol. 3, No. 6, 2016, pp. 99-104.
 42. **Yousif M. Abdallah**, Segmentation of Salivary Glands in Nuclear Medicine Images Using Edge Detection Tools. Journal of Biomedical Engineering and Medical Imaging 04/2016; 3(2).
 43. **Yousif M. Abdallah**, Suha Mohamed: Automatic Recognition of Leukemia Cells using Texture Analysis Algorithm. International Journal of Advanced Research (IJAR) 02/2016; 4(1).
 44. **Yousif M. Abdallah**: Increasing of Edges Recognition in Cardiac Scintigraphy for Ischemic Patients. Journal of Biomedical Engineering and Medical Imaging 02/2016; 2(6).
 45. **Yousif M. Abdallah**, Ali Hayder: Assessment of Mean Glandular Dose (MGD) Received in Mammography Examination in Khartoum. International Journal of Advanced Research (IJAR) 01/2016; 4(1).
 46. **Yousif M. Abdallah**, Nisreen A. Mohamoud: Estimation of Radiation Dose Received in Knee Joint x-ray Examination. International Journal of Health and Rehabilitation Sciences (IJHRS) 11/2015; 4(3).
 47. **Yousif M. Abdallah**: Increasing the Precision of Edges Recognition in Static Renal Scintigraphy. Indian Journal of Applied Research (IJAR) 09/2015; 4(7):270-273.
 48. **Yousif M. Abdallah**, Abdelazeem Ahamed Khalifa: Estimating Environmental and Occupational Factors that Contribute to Cancer in Sudan. International Journal of Health and Rehabilitation Sciences (IJHRS) 08/2015; 4(2): 115-121.
 49. Nagi I. Ali, **Yousif M. Abdallah**: Assessment of Thyroid Status on Low Birth Weight Deliveries in Central Sudan by using Radioimmunoassay (RIA). American Journal of Research Communication 08/2015; 3(4):2141-2147.
 50. **Yousif M. Abdallah**, Magbool A. H. Salih: Appraisal of Radiation Dose Received in Abdominal Computed Tomography Patients. International Journal of Science and Research (IJSR) 07/2015; 4(7):2383-2387.
 51. **Yousif M. Abdallah**, Eltayeb Wagiallah, Mohamed M. Yousef: Improvement of Nuclear Cardiology Images for Ischemic Patients using Image Processing Techniques. SMU Medical Journal 07/2015; 2(2)
 52. **Yousif M. Abdallah**: Lungs Detection in Ventilation and Perfusion Scintigraphy using Watershed

Transform. International Journal of Electronics Communication and Computer Engineering (IJECCCE) 06/2015;2(3)

53. **Yousif M. Abdallah**: An Accurate Liver Segmentation Method Using Parallel Computing Algorithm. Journal of Biomedical Engineering and Medical Imaging 06/2015; 3(2).
54. **Yousif M. Abdallah**, Masheel Abdallah: Using Basic Morphology Tools in Improvement of Kidneys Detection. International Journal of Science and Research (IJSR) 05/2015; 4(5):1383-1386.
55. **Yousif M. Abdallah**, Mohamed Elfadil Gar-el-nabi, Khalid H. Eltom: Making Sense of Radiation; A guide to Radiation and Its Health Affects. International Journal of Health and Rehabilitation Sciences 05/2015; 4(1):57-64. DOI:10.5455/ijhrs.0000000074
56. **Yousif M. Abdallah**, Amel S. Algaddal, Mommen A. Alkhir: Enrichment of Ultrasound Images using Contrast Enhancement Techniques. International Journal of Science and Research (IJSR) 02/2015; 4(1).
57. **Yousif M. Abdallah**: Valuation of Radiation Dose in Lumbosacral Examination. International Journal of Science and Research (IJSR) 02/2015; 4(1).
58. **Yousif M. Abdallah**, Mommen A. Alkhir, Amel S. Algaddal: Improvement of Brain Tumors Detection Using Markers and Boundaries Transform. International Journal of Science and Research (IJSR) 01/2015; 4(1):2372-2376.
59. Abdoelrahman Hassan, Mohamed Gar-el-nabi, **Yousif M. Abdallah**, Omer A. Omer: Outfield Dose Calculation in Treatment of Breast Cancer Using Radiotherapy TPs. International Journal of Science and Research (IJSR) 01/2015; 438(1).
60. **Yousif M. Abdallah**, Mohamed E.M. Gar-el-nebi, Waleed A. Almahi, Nahid M. Matar Nagi Ibrahim Ali: Assessment of Microbiological Sterility in Radioimmunoassay Laboratory using SCDM and FTM Materials. SMU Medical Journal 01/2015; 2(1)
61. **Yousif M. Abdallah**, Abdalrahman Hassan: Segmentation of Brain in MRI Images Using Watershed-based Technique. International Journal of Science and Research (IJSR) 01/2015; 4(1):683-687.
62. **Yousif M. Abdallah**, Rejab M. Bin Yousef: Enrichment of Ultrasound Images using Contrast Enhancement Techniques. International Journal of Science and Research (IJSR) 01/2015; 4(1):2381-2386.
63. **Yousif M. Abdallah**, Nagah Khieder: Enhancement of Ultrasound Images using Top-hat and Blind Deconvolution Algorithms. International Journal of Science and Research (IJSR) 12/2014; 3(12):2485-2489.
64. **Yousif M. Abdallah**, Eltayeb Wagiallah: Segmentation of Thyroid Scintigraphy Using Edge Detection and Morphology Filters. International Journal of Science and Research (IJSR) 11/2014; 3(11):2768-2771.
65. Ahmed Yassine, Magdah M. Hassan, **Yousif M. Abdallah**: Assessment of 99mTc Dose Calibrator Performance in Nuclear Medicine Department. International Journal of Science and Research (IJSR) 11/2014; 3(11):36-39.
66. **Yousif M. Abdallah**, Reham I. Abdelwahab: Application of Texture Analysis Algorithm for Data Extraction in Dental X-Ray Images. International Journal of Science and Research (IJSR) 10/2014; 3(10):1934-1938.
67. Eltayeb Wagiallah, Yasir Ahmed, **Yousif M. Abdallah**: Correction Preprocessing Method for Cardiac Scintigraphy Images using Local Adaptive Filters. International Journal of Science and Research (IJSR) 09/2014; 3(9):2325-2329.
68. **Yousif M. Abdallah**, Ali Hayder, Eltayeb Wagiallah: Automatic Enhancement of Mammography Images using Contrast Algorithm. International Journal of Science and Research (IJSR) 09/2014; 3(9):1885-1889.
69. **Yousif M. Abdallah**, Reham I. Abdelwahab: Improvement of Orthopantography (OPG) Images using Texture Analysis. International Journal of Science and Research (IJSR) 08/2014; 3(8):1771-1775.
70. **Yousif M. Abdallah**, Eltayeb Wagiallah: Enhancement of Nuclear Medicine Images using Filtering Technique. International Journal of Science and Research (IJSR) 08/2014; 3(8):916-921.
71. **Yousif M. Abdallah**, Mohamed E Gar-Elnabi, Abdoelrahman H A Bakary, Alaa M H Eltoum, Abdelazeem K M Ali: Calculation of organs radiation dose in cervical carcinoma external irradiation beam using day's methods. Global Advanced Research Journal of Medicine and Medical Science 05/2014 3(5): 090-094
72. Eltayeb Wagiallah, **Yousif M. Abdallah**, Mohamed E.M. Gar-el-nabi, Mohamed A.A. Omer: Characterization of Coronary Artery Obstruction and Related Findings in Ischemic Heart Patients using Cardiac Scintigraphy. Sudan Medical Monitor 01/2014; 9(2): 6-9.
73. **Yousif M. Abdallah**, Mohamed E.M. Gar-el-nabi, Mohamed A.A. Omer: Assessment of Field Size on Radiotherapy Machines using Texture Analysis. Sudan Medical Monitor 03/2014; 9(2): 6-9.
74. **Yousif M. Abdallah**, Mohamed E.M. Gar-el-nabi, Siddig M.A. Ahmed: Evaluation of Radiochemical Purity of Received 99Mo -99mTc Generator in National cancer Institute (NCI), Asian Journal of Radiological Research 06/2013; 1(2)

75. **Yousif M. Abdallah**, Dania M. Eltagani: Evaluation of Patient positioning correction approach in radiotherapy using Laser beam Positioning System. Canadian Journal on Medicine 11/2011; 3(3)
76. **Yousif M. Abdallah**, Khalid Hassan Eltom, Mohamed Elfadil, M Gar-Elnabi: Prediction of Motion of Chest Organs during Radiotherapy Using Image Registration Technique.
77. **Yousif M. Abdallah**, Arwa A Almoustafa, Gehan Elhadi, Mamdouh Mohammed, Osman Khalafallah, TayseerKhalid: Application of analysis approach in Noise Estimation in Panoramic X-rays images using image processing program (MatLab). Canadian Journal on Medicine 07/2011; 3(2)
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81. Mohamed AA Omer, Mohamed E M Gar-Elnabi, E Saion, A A Al-Zahrany, , M H Haron, **Yousif M. Abdallah**, Kh M Dahlan: Gamma Radiation Synthesis and Characterization of polyvinyl Alcohol/Silver Nanocomposites Film . Journal of Science and Technology 10/2010; 4(10)
82. **Yousif M. Abdallah**, Computed Verification of Light and Radiation Field Size Superimposition On Cobalt-60 machine. Sudan medical journal 04/2010; 2-5:147-156.