

Curriculum Vitae



Dana Samir Al-Mousa

Department of Allied Medical Sciences,
Faculty of Allied Medical Sciences-Faculty
member

Personal

Positions: Assistance professor, Jordan University of Sciences and Technology

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Date of Birth: 27 February, 1984

Research Interests

Medical Images optimisation and perception in medical Imaging, Receiver Operating Characteristic analysis of performance, radiologists' visual search patterns and radiologists' performance in Medical Imaging, optimisation of image quality and software copy display, breast cancer imaging, breast density assessment and optimisation of breast cancer detection.

Academic Qualifications

2015	Doctor of Philosophy	University of Sydney
2008	Master of Medical Imaging	University of Leeds
2005	Bachelor of Diagnostic Radiography Technology	Jordan University of Sciences and Technology

Employment Record

April 2015 to present Assistant Professor
Department of Allied Medical Sciences, Jordan University of Sciences and Technology

September 2018 - 2019 Part-time Assistant Professor
Department of Medical Imaging, The Hashemite University

March 2012 - 2014 Postgraduate Fellow
Discipline of Medical Radiation Sciences, The University of Sydney

September 2008 - 2010 Full-time Lecturer
Department of Allied Medical Sciences, Jordan University of Sciences and Technology

September 2005 – 2007 Teaching Assistant
Department of Allied Medical Sciences, Jordan University of Sciences and Technology

Area of Teaching

Teaching wide range of teaching areas including; Dental Radiography, Clinical Practice, Computed Tomography, Digital Image Processing and Analysis, Ethics in Applied Medical Careers, Evidence-Based Imaging, Fluoroscopic Imaging, General and Advanced Radiography Practice, Image Quality Control, Mammography, Nuclear Medicine and Radiation Therapy, Physics of Radiology, Principles of Diagnostic Imaging, Quality Management in Medical Imaging, Radiographic Equipment, Radiographic Surface Anatomy, Radiologic Pathology, Scientific Research Methods, Special And Fluoroscopic Techniques Practice, Special Radiographic Procedures as well as Vascular Radiography.

Thesis Supervision

- Mostafa Al Titi (2017). Exposure Index (EI) levels in Jordanian Radiology: Causal Agents and Recommended level. Jordan University of Science and Technology.
- Malik Alsa'adi (2018). Radiographer involvement in mammography image interpretation. Jordan University of Science and Technology.
- Lujain Al-ghoul (2019). Strategies for the implementation of breast cancer screening program in Jordan. Jordan University of Science and Technology.
- Co-supervisor: Aisha Alawneh (2020). The quality of mammographic images using standard PMGI criteria. Jordan University of Science and technology.

Examining Services

- Ahmad Alfares (2016). Medical radiation dose knowledge and awareness.
- Rawan Mohammad (2018). Accuracy of radiographers reporting Chest x-ray examinations: A performance study
- Ala'a Aqadi (2020). Radiologists performance in Digital breast tomosynthesis compared with 2D digital mammography for breast cancer detection.

Other Scientific Work

- National Guidelines Manual: Dana Samir Al Mousa, Mostafa Abdelrahman, Mohammad Rawashdeh. (2017). Radiologists Technologies Mammography Manual.
- Member of Radiological and Medical Imaging Accreditation Standards Committee, Ministry of Higher Education
- Member of the Committee for the Development of Competitive Examinations and Assessment Tools to Measure Professional and Specialized Competencies for the Bachelor of Radiology / Jordanian Civil Service Bureau.
- Member of Allied Medical Sciences Department Council
- Member of Library Committee, Allied Medical Sciences Department
- Member of Community Service Committee, Allied Medical Sciences Department
- Member of Scientific Committee, Allied Medical Sciences Department
- Member of Accreditation of Academic Majors Committee, Allied Medical Sciences Department
- Member of Media Committee, Allied Medical Sciences Department
- Member of Excellence Committee, Allied Medical Sciences Department
- Member of Quality Assurance Committee, Allied Medical Sciences Department
- Member of Library Committee, Faculty of Applied Medical Sciences
- Member of Community Service Committee, Faculty of Applied Medical Sciences
- Member of Students Affairs Committee, Faculty of Applied Medical Sciences
- Member of Programs Curriculum Committee, Faculty of Applied Medical Sciences
- Member of Quality Assurance Committee, Faculty of Applied Medical Sciences
- A reviewer for different radiology journals including; Academic Radiology, Journal of Cancer Education, Asia Pacific Journal of Public Health, PLoS ONE, Breast Cancer: Basic and Clinical Research, Journal of Medical Radiation Sciences, Journal of Medical Imaging and Radiation Oncology.

Scientific Memberships

- Jordanian Society of Radiographers (JSR).
- European Society of Radiology (ESR)

Awards

- Full funded Master scholarship, Jordan University of Science and Technology (2007)
- Full funded PhD scholarship, Jordan University of Science and Technology (2010)
- Research Support Scheme, The University of Sydney
- Cancer research network postgraduate conference
- Travel grants
- Why Study Mammography: Student Award

Grants

- 2016 Mammographic breast density in Jordan, Jordan University of Science and Technology
Approved by University Research Committee
9600 JOD
- 2018 Knowledge, attitude and practice around breast cancer and breast cancer screening methods among women from public and healthcare professionals in Jordan, Jordan University of Science and Technology
Approved by University Research Committee
4200 JOD
- 2019 Diagnostic monitors quality control and viewing environment within Jordanian Hospitals, Jordan University of Science and Technology
Approved by University Research Committee
6200 JOD
- 2020 Digital Mammography and Breast Density
Ministry of Higher Education and Scientific Research
Pre-approved
60,000 JOD
- 2020 Development and Testing of an International Masters Curriculum for the Progression and Advancement of Computed Tomography / IMPACT
Erasmus+
In Progress
1000,000 EUR

Publications

Published Articles:

1. Alakhras M., **Al-Mousa D.S**, Mahasneh M. Al-Sa'di A., Factors affecting compliance of infection control measures among dental radiographers. *International Journal of Dentistry*. 2020
2. **Al-Mousa D.S.**, Alakhras M., Hossain S.Z, Al-Sa'di M., Al-Hasan M., Al-Hayek Y., Brennan PC. Knowledge, attitude and practice around breast cancer and mammography screening among Jordanian women. *Breast Cancer: Targets and Therapy*. 2020; 12:231-242
3. **Al-Mousa D.S**, Rawashdeh M, Alakhras M, Spuur K M, AbuTaimai R, Brennan P C. Does mammographic density remain a radiological challenge in the digital era. *Acta Radiologica*. 2020; 1-8

4. **Al-Mousa D.S**, Alakhras M, Spuur K M, Alewaidat H, Rawashdeh M, M Abdelrahman, Brennan P C. *The implications of increased mammographic breast density for breast screening in Jordan. Journal of Medical Radiation Sciences* 2020;1-7
5. **Al-Mousa D.S**, Alakhras M, Spuur K M, Alewaidat H, Rawashdeh M, M Abdelrahman, Brennan P C. *Mammographic breast density profile of Jordanian women with normal and breast cancer findings. Breast Cancer: Basic and Clinical Research.* 2020; 14:1-7
6. Rawashdeh M, Saade C, Ibnian A, Bataineh Z, **Al-Mousa DS**, Patrick Brennan, Al-Tamimi F, Al-Husari M, AbuTaimai R, Mcentee M. *Referral Physicians' Knowledge of Radiation Dose: A Cross-Sectional Study. Open Access Macedonian Journal of Medical Sciences.* 2020; 8:582-588
7. Mahasneh A.M, Alakhras M., Khabour O., Al-Sa'di A., **Al-Mousa D.S**. *Practices of Infection Control among Dental Care Providers: A Cross Sectional Study. Clinical, Cosmetic and Investigational Dentistry.* 2020
8. Abdelrahman, Mostafa A, Alfwares, Ahmad Abu, Alewaidat, Haytham, Alhasan, Mustafa, Rawashdeh, Mohammad A, **Al-Mousa D.S** *Compliance with Radiation Protection Practices Among Radiologists. Health physics.* 2018
9. Al Ewaidat, H., Zheng, X., Khader, Y., Abdelrahman, M., Mustafa Alhasan, M. K., Rawashdeh, M. A., **Al-Mousa D.S.**, Alawneh, K. Z. A. *Radiation Dose and Image Quality in Adult Computed Tomography Scans. Journal of Medical Imaging and Health Informatics.* 2018
10. Al Ewaidat, H., Zheng, X., Khader, Y., Abdelrahman, M., Mustafa Alhasan, M. K., Rawashdeh, M. A., **Al-Mousa D.S.**, Alawneh, K. Z. A. *Assessment of Radiation Dose and Image Quality of Multidetector Computed Tomography. Iran J Radiol.* 2018
11. Abdelrahman MA, Alhasan M, Alewaidat H, Rawashdeh MA, **Al-Mousa DS**, Almhdawi KA. *Knowledge of nosocomial infection control practices among radiographers in Jordan. Radiography.* 2017

12. **Al-Mousa D.S**, Brennan P, Ryan E, Lee W, Tan J, Mello-Thoms C. How mammographic breast density affects radiologists' visual search patterns. *Academic Radiology*. 2014; 21(11): 1386-1393
13. **Al-Mousa D.S**, Mello-Thoms C, Ryan E, Lee W, Pietrzyk M, Reed W, Heard R, Poulos A, Tan J, Li Y, Brennan P. Mammographic density and cancer detection: does digital imaging challenge our current understanding? *Academic Radiology*. 2014; 21(11):1377-1386
14. **Al-Mousa D.S**, Brennan P, Ryan E, Mello-Thoms C. Mammographic density effect on readers' performance and visual search pattern. *IWDM 2014: 12th International Workshop on Breast Imaging*. Springer, Verlag Berlin Heidelberg. 2014
15. **Al-Mousa D.S**, Ryan E, Mello-Thoms C, Brennan P. What effect does mammographic breast density have on lesion detection in digital mammography? *Clinical Radiology*. 2014;69(4):333-341. xi
16. **Al-Mousa D.S**, Brennan P, Ryan E, Lee W, Pietrzyk M, Reed W, Alakhras M, Li Y, Mello-Thoms C. Effect of mammographic breast density on radiologists' visual search pattern. *Proceedings of SPIE Medical Imaging 2014: Image Perception, Observer Performance, and Technology Assessment*, Bellingham, United States: SPIE Society of Photo-Optical Instrumentation Engineers. 2014
17. **Al-Mousa D.S**, Ryan E, Lee W, Nickson C, Pietrzyk M, Reed W, Poulos A, Li Y, Brennan P. The impact of mammographic density and lesion location on detection. *Proceedings of SPIE Medical Imaging 2013: Image Perception, Observer Performance, and Technology Assessment*, Bellingham, United States: SPIE Society of Photo-Optical Instrumentation Engineers. 2013
18. Yanpeng Li, Brennan P, Nickson C, Pietrzyk M, **Al-Mousa D.S**, Ryan E. A novel phantom system facilitating better descriptors of density within mammographic images. *Proceedings of SPIE Medical Imaging 2013: Image Perception, Observer Performance, and Technology Assessment*, Bellingham, United States: SPIE Society of Photo-Optical Instrumentation Engineers. 2013

19. Yanpeng Li, Partrick C. Brennan; Warwick Lee; John Ryan; Jennifer Cawson; Carolyn Nickson; Warren Reed; Mariusz W. Pietrzak, **Al-Mousa D.S**; Elaine Ryan. *Outlining and categorising mammographic breast density: expert radiologist perception. Proceedings of SPIE Medical Imaging 2013: Image Perception, Observer Performance, and Technology Assessment, Bellingham, United States: SPIE Society of Photo-Optical Instrumentation Engineers. 2013*

Submitted Articles:

1. **Al-Mousa D.S.**, Attar R., Kleib I., Alakhras M. *Knowledge, attitudes, and practices related to breast cancer screening among female workers at Jordanian universities. Submitted to Journal of Medical Screening*
2. Mahasneh A.M, **Al-Mousa D.S.**, Alakhras M., Khabour O., Al-Sa'di A. *Attitudes and Knowledge of Dental Radiography among Students of Dentistry and Related Fields: A Cross Sectional Survey. Submitted to BMC Oral health*
3. Al-Hayek Y., Zheng X., Spuur K, Davidson R., Cummins C., Albari K, **Al-Mousa D.S.** *The impact of phantom off-centring on CT numbers using two MDCT scanners, variable tube voltage and phantom size. Submitted to British Journal of Radiology*
4. Rawashdeh, M. A., Saade C., Abdelrahman, M., Odriscoll J., Al Ewaidat, H., **Al-Mousa D.S.**, McEntee M. *A new approach for dose reference levels in paediatric CT: age and size-specific dose estimation. Submitted to Academic Radiology*

National/International Conferences, Workshops

1. **Al-Mousa D.S** and Alakhras M. *Mammographic density on digitally acquired images effect on cancer detection amongst breast readers. European Congress of Radiology 2020*
2. Alakhras M. and **Al-Mousa D.S.** *Mammographic breast density profile in Jordanian women as a baseline of establishment of a national screening program. European Congress of Radiology 2020*

3. Alakhras M., **Al-Mousa D.S**, Brennan P.C, Taba A.T, AbuTaimai R., Rickard M. *Impact of digital breast tomosynthesis on readers with different experience. Fifteenth International Workshop on Breast Imaging 2020*
4. **Al-Mousa D.S**. *Mammographic density and Jordanian radiologists performance. The 3rd Scientific Day for Breast Cancer Screening 2019*
5. **Al-Mousa D.S**. *How to screen women with high density breasts. International workshop on Breast Imaging. JUST 2019*
6. **Al-Mousa D.S**. *Cardiac MRI : Basic Principles. The 1st Jordanian Radiology Society Conference 2018*
7. **Al-Mousa D.S**, Mello-Thoms C, Ryan E., Brennan P.C. *The effect of mammographic breast density in the digital imaging era. Mediterranean Incontinence and Pelvic Floor Society MIPS 2015*
8. **Al-Mousa D.S**, Brennan P, Ryan E, Mello-Thoms C. *Mammographic density effect on readers' performance and visual search pattern. 12th International Workshop on Breast Imaging 2014*
9. **Al-Mousa D.S**, Brennan P, Ryan E, Lee W, Pietrzyk M, Reed W, Alakhras M, Li Y, Mello-Thoms C. *Effect of mammographic breast density on radiologists' visual search pattern. SPIE 2014*
10. **Al-Mousa D.S**, Ryan E, Lee W, Nickson C, Pietrzyk M, Reed W, Poulos A, Li Y, Brennan P. *The impact of mammographic density and lesion location on detection. SPIE 2013*
11. Yanpeng Li, Brennan P, Nickson C, Pietrzyk M, **Al-Mousa D.S**, Ryan E. *A novel phantom system facilitating better descriptors of density within mammographic images. SPIE 2013*
12. Yanpeng Li, Partrick C. Brennan; Warwick Lee; John Ryan; Jennifer Cawson; Carolyn Nickson; Warren Reed; Mariusz W. Pietrzak, **Al-Mousa D.S**; Elaine Ryan. *Outlining and categorising mammographic breast density: expert radiologist perception. SPIE 2013*

13. **Al-Mousa D.S**, Ryan E., Lee W., Nickson C., Reed W., Pietrzak M., Brennan P.C.
Breast density and lesion location: Impact on reader performance in mammography. Why Study Mammography: Gold Coast 2012
14. **Al-Mousa D.S**, Ryan E., Lee W., Reed W., Pietrzak M., Nickson C., Brennan P.C.
Mammography density and radiologist performance: an Australian context. Sydney Cancer Conference 2012

Referees

Available Upon Request