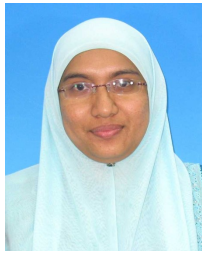


# RADHIANA BINTI HASSAN



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- IIUM Kuantan Campus
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## ACADEMIC QUALIFICATION

- Master of Medicine (Radiology)
- Doctor of Medicine

## TEACHING RESPONSIBILITIES

ADVANCED RADIOLOGY ROTATION	2019/2020 2020/2021
BASIC RADIOLOGY ROTATION	2019/2020 2020/2021
MULTIMODALITY RADIOLOGY ROTATION	2019/2020 2020/2021
RADIOGRAPHIC ANATOMY: SPECIALISED IMAGING PROCEDURES	2012/2013 2013/2014 2014/2015 2015/2016 2016/2017
RADIOGRAPHIC PATHOLOGY	2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
RADIOLOGY	2010/2011 2011/2012 2012/2013 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
SECTIONAL ANATOMY	2013/2014 2014/2015 2015/2016 2016/2017 2019/2020 2020/2021

## RESEARCH PROJECTS

### In Progress

**2019 - Present** Analysis and Design of Unsupervised Federated Intelligence for Early Lung Cancer Screening

**2018 - Present** Application of Machine Learning Techniques on Biomedical Images

### Completed

**2018 - 2020** Application of Machine Learning Techniques on Biomedical Images

**2014 - 2018** A Randomized Controlled Trial Comparing Primary Retrograde Intra Renal Surgery (RIRS) and Extracorporeal Shockwave Lithotripsy (ESWL) for Treatment of Renal Stones with Suspected Failure of ESWL

- 2011 - 2014**      Reproducibility of Mammographic Parenchymal Patterns and Breast Density on Full-Field Digital Mammography (FFDM): Comparison of the Three Classification Systems (BIRADS, WOLFE and TABAR)
- 2010 - 2012**      Ovarian Tumour: Computed Tomography (CT) Characteristics with Histopathological Correlation
- 2010 - 2012**      Mammographic Breast Density and Detection of Breast Cancer in 3 Different Ethnic Groups
- 2010 - -1**        Significance of Radiological Anatomy in Lower Calyceal Stone Clearance After Extracorporeal Shockwave Lithotripsy (ESWL)
- 2010 - 2011**      Significance of Radiological Anatomy in Lower Calyceal Stone Clearance After Extracorporeal Shockwave Lithotripsy (ESWL)
- 2009 - 2011**      ANTERIOR CRUCIATE LIGAMENT TEARS: Correlation between Arthroscopy with MR Imaging Findings
- 2009 - 2011**      Accidental and Non-Accidental Head Injury in Children. Is there a Tomography (CT) Presentation?
- 2009 - 2011**      The Role of Multislice Computed Tomography (MSCT) in the Detection of Traumatic Intra Abdominal Injury: Our Experience in Hospital Tengku Ampuan Afzan (HTAA), Kuantan Pahang
- 2009 - 2012**      Evaluation of Breast Lesions Highlighted by Computer Diagnosis (R2-CAD) at Full-Field-Digital Mammogram (FFDM) at the IIUM Breast Centre

## PUBLICATIONS

### Article

- 2020**      [COVID-19 deep learning prediction model using publicly available radiologist-adjudicated chest X-ray images as training data: preliminary findings.](#) International Journal of Biomedical Imaging , 2020 pp.1-7
- 2018**      [2D and 3D complexity analysis on MRI images using fractal dimension.](#) Journal of Telecommunication, Electronic and Computer Engineering , 10 (1-8) pp.161-164
- 2018**      [Tuberculous encephalopathy mimicking limbic encephalitis and large intraparenchymal mass: a challenge in diagnosis.](#) IIUM Medical Journal of Malaysia , 17 (Supplementary Issue no. 1) pp.92-92
- 2016**      [Disappearing calcification.](#) Brunei International Medical Journal , 12 (4) pp.146, 157
- 2016**      [Anatomical variations of the anterior communicating artery complex: a multidetector CT angiographic study.](#) International Medical Journal Malaysia (IMJM) , 15 (Supplementary Issue No.1) pp.51-51
- 2015**      [Reproducibility of mammographic parenchymal patterns and Breast Density on Full-Field Digital Mammography \(FFDM\): comparison of the two classification systems.](#) International Medical Journal Malaysia , 14 (supp.1) pp.4

- 2015** [A study of the arterial variations in the popliteal regions, are they symmetrical or not?.](#) International Medical Journal Malaysia , 14 (supp.) pp.8
- 2014** [Computed Tomography \(CT\) of blunt abdominal trauma: the frequency of incidental findings, how it was documented in radiology report and the implication of these findings to acute trauma care.](#) Medical Journal of Malaysia , 69 (1) pp.45-47
- 2013** [Non-contrast computed tomography in acute ischaemic stroke: a pictorial review.](#) Medical Journal of Malaysia , 68 (1) pp.93-100
- 2013** [Pituitary apoplexy: a rare cause of middle cerebral artery infarction.](#) Medical Journal of Malaysia , 68 (3) pp.264-266
- 2013** [Evaluation of time-dependent pathways in an acute ischemic stroke protocol that incorporates CT perfusion: A tertiary referral center experience.](#) Neurology Asia , 18 (4) pp.355-360
- 2012** [Computed Tomography \(CT\) of bowel and mesenteric injury in blunt abdominal trauma: a pictorial essay.](#) Medical Journal of Malaysia , 67 (4) pp.445-452
- 2012** [The role of Multislice Computed Tomography \(MSCT\) in the detection of blunt traumatic intra abdominal injury: our experience in Hospital Tengku Ampuan Afzan \(HTAA\), Kuantan, Pahang.](#) Medical Journal of Malaysia , 67 (3) pp.316-322
- 2011** [Retrocaval ureter: the importance of intravenous urography.](#) Malaysian Journal of Medical Sciences , 18 (4) pp.83-86
- 2011** [Computed tomography of blunt spleen injury: a pictorial review.](#) Malaysian Journal of Medical Sciences , 18 (1) pp.61-68
- 2011** [A case of focal eventration of left hemidiaphragm with transthoracic left kidney confused with a traumatic diaphragmatic hernia.](#) Medical Journal of Malaysia , 66 (1) pp.60-61
- 2011** [Dysphagia caused by an aberrant right subclavian artery.](#) International Medical Journal Malaysia , 10 (1) pp.43-45
- 2010** [Computed tomography \(CT\) imaging of injuries from blunt abdominal trauma: a pictorial essay.](#) Malaysian Journal of Medical Sciences , 17 (2) pp.29-39
- 2010** [Fatal airbag-mediated atlanto-occipital dislocation in a child.](#) Malaysian Journal of Medical Sciences , 17 (4) pp.67-70
- 2010** [Computed tomography \(CT\) in blunt liver injury: a pictorial essay.](#) Medical Journal of Malaysia , 65 (4) pp.321-327
- 2010** [Immediate postpartum cardiorespiratory collapse:a management quandary.](#) Blood Coagulation and Fibrinolysis , 21 (6) pp.601-604
- 2010** [Bicycle handlebar injuries in children : findings on CT abdomen of 3 cases .](#) pp.1-15
- 2010** [Immediate postpartum cardiorespiratory collapse : a management quandry.](#) Blood Coagulation & Fibrinolysis , 21 (6) pp.601-604
- 2009** [C1 and C2 vertebrae osteomyelitis: a misleading presentation leading to a fatal outcome.](#) International Medical Journal Malaysia , 8 (1) pp.53-55

- 2009 [Bilateral congenital renal arteriovenous malformation: a rare entity with uncommon presentation.](#) International Medical Journal Malaysia , 8 (1) pp.57-59
- Conference or Workshop Item**
- 2020 [Radiographic anatomy of cervical and lumbar spine.](#) In: **The Spine Masterclass And Nursing Care 2020**
- 2020 [Malignant focal liver lesions.](#) In: **Essential ultrasound for medical practitioners. Series 1: Liver, gallbladder and spleen**
- 2019 [ABCs of chest radiography.](#) In: **Terengganu Respiratory Update 2019**
- 2019 [Brain structure characterization of huffaz \(memorizers of the Quran\): evidence from magnetic resonance imaging.](#) In: **3rd Nusantara Conference 2019 on Medical Issues from Islamic Perspective**
- 2018 [Special breast issues: altered breast due to reduction, cosmetic augmentation and post treatment reconstruction.](#) In: **Mammography CME 2018**
- 2018 [Imaging in trauma.](#) In: **East Coast Surgical Symposium 2018 (ECSS 2018)**
- 2017 [Common mistakes in chest xray interpretation.](#) In: **IIUM 7th Annual Scientific Meeting and Regional Medical Update 2017**
- 2017 [Traumatic head injury.](#) In: **6th East Coast Society of Neuro and Interventional Radiology Conference: Emergency Radiology**
- 2017 [Ionizing radiation: Principle and biological effects.](#) In: **CME for Radiation Protection 2017**
- 2017 [Principle of imaging in surgical practice.](#) In: **BMS Intensive Course for Part 1, Clinical Postgraduate 2017**
- 2017 [Traumatic brain injury pattern on CT scan: a comparison of motorcyclist versus passenger vehicle patients involved in road traffic accidents.](#) In: **Medical Research Symposium 2017**
- 2017 [Radiological findings of pulmonary tuberculosis in patients with and without HIV infections.](#) In: **Medical Reserach Symposium**
- 2017 [Primary Retrograde Intra Renal Surgery \(RIRS\) versus Extracorporeal Shockwave Lithotripsy \(ESWL\) for treatment of renal stones with suspected failure of ESWL.](#) In: **2nd International Joint Meeting of Pan Asian Men's Health Forum and Annual Meeting of KSSMA 2017**
- 2016 [Imaging in head and neck: CT and MRI.](#) In: **First Kuantan Head and Neck Dissection and Sialendoscopy workshop**
- 2015 [Emergency radiography.](#) In: **CME on Radiation Protection 2015 With Theme: "Digital Radiography: The New Dimensions In Plain Radiography"**
- 2015 [Spine Imaging.](#) In: **4th EAST COAST SOCIETY OF NEURORADIOLOGY ANDINTERVENTIONAL RADIOLOGY (ESC NIR) 2015 CONFERENCE.**
- 2015 [Traumatic brain imaging: haemorrhage, dissections and fistulas.](#) In: **Malaysian Society of Interventional Radiology (MYSIR 2015)**

- 2014 [Breast density estimation on full-field-digital mammography \(ffdm\) by general radiologists: comparison of bi-rads and tabar classification systems.](#) In: **Malaysian Congress of Radiology (MCoR) incorporating 2014 Annual Scientific Meeting KSR-MCoR friendship symposium**
- 2014 [CT colonography: detection of lesions and patients' preference: correlation with standard colonoscopy.](#) In: **International Research, Invention and Innovation Exhibition 2014 (IRIIE2014)**
- 2014 [Lower calyceal stone clearance after extracorporeal shockwave lithotripsy \(ESWL\): prevalence and associated factors.](#) In: **International Research, Invention and Innovation Exhibition 2014 (IRIIE2014)**
- 2013 [Breast cancer in women without breast symptoms: A retrospective study in IIUM Breast Centre, Kuantan, Pahang.](#) In: **8th Sabah Public Health Colloquium 2013 & 1st Regional Public Health Conference**
- 2013 [Breast density from screening mammography procedure in Malaysia: result of preliminary study.](#) In: **13th Asia-Oceania Congress of Medical Physics & 11th South-East Asian Congress of Medical Physics**
- 2013 [Sellar and parasellar lesions: a pictorial illustration .](#) In: **The 16th Congress of Asian Association of Radiology**
- 2013 [A survey on mean glandular dose from full-field digital mammography systems, operate using Mo/Mo and W/Rh target/filter combinations.](#) In: **Nuclear Technical Convention 2013**
- 2012 [Ovarian tumour: CT characteristics with HPE correlation.](#) In: **2012 Annual Scientific Meeting**
- 2012 [Pituitary Apoplexy: A rare cause of stroke.](#) In: **23rd Annual Scientific Meeting, Malaysian Society of Neurosciences**
- 2012 [The relationship of mammographic density and age : implication for screening mammogram.](#) In: **16th Malaysian Family Medicine Scientific Conference**
- 2012 [Pictorial essay: Neuroimaging of stroke.](#) In: **23rd Annual Scientific Meeting of Malaysia Society of Neurosciences**
- 2012 [Mammographic breast density : is there any association with positive family history of breast cancer?.](#) In: **College of Radiology Scientific Meeting 2012; Cancer Imaging**
- 2011 [Computed Tomography \(CT\) and Pathologic Correlation of Ovarian Tumours in children & adolescents: A review of eight cases .](#) In: **11th Asian Oceanic Society of Pediatric Radiology Conference**
- 2011 [MSCT of epithelial ovarian tumours : a pictorial illustration .](#) In: **International Health Conference IIUM 2011**
- 2011 [Breast cancer screening at IIUM breast centre : 7 year review of college of radiology mammogram subsidy programme\(2004-2010\).](#) In: **International Health Conference IIUM 2011**
- 2011 [Mammographic findings of Breast Cancer: review of 43 cases in IIUM Breast Centre \(2008-2010\).](#) In: **2011 International Health Conference**

- 2011 [Mammographic findings of breast cancer : review of 43 cases in IIUM Breast Centre \(2008-2010\).](#) In: **International Health Conference IIUM 2011**
- 2011 [MSCT of epithelial ovarian tumors : a pictorial illustration.](#) In: **International Health Conference IIUM 2011**
- 2011 [Accidental and non-accidental head injury in children. Is there a difference in Tomography \(CT\) presentation?.](#) In: **IIUM Research, Invention and Innovation Exhibition 2011**
- 2011 [Breast asymmetry as mammographic finding of breast carcinoma: a case series.](#) In: **2011 Annual Scientific Meeting, College of Radiology**
- 2011 [MSCT of huge abdominopelvic masses in female: a pictorial illustration.](#) In: **2011 Annual Scientific Meeting, College of Radiology**
- 2011 [Breast cancer awareness : IIUM Breast Centre.](#) In: **1st Surgical National Update for Primary Practitioners**
- 2011 [Computed Tomography \(CT\) and pathologic correlation of ovarian tumours in children and adolescents: a review of eight cases.](#) In: **11th Asian Oceanic Society of Pediatric Radiology Conference**
- 2010 [CT imaging of blunt splenic injury: a pictorial essay.](#) In: **2010 Annual Scientific Meeting College of Radiology Malaysia**
- 2010 [Miracle of imaging: the truth is out there!.](#) In: **2010 Annual Scientific Meeting College of Radiology Malaysia**
- 2010 [The role of multislice computed tomography \(MSCT\) in the direction of traumatic intra abdominal injury : our experience in Hospital Tengku Ampuan Afzan\(HTAA\), Kuantan, Pahang .](#) In: **2010 HTAA Research Day**
- 2010 [Retrocaval ureter: an unusual cause of hydronephrosis in an adult .](#) In: **19th Malaysian Urological Conference**
- 2010 [Multislice computed tomography \(MSCT\) of blunt abdominal trauma: incidental findings related to the genitourinary tract .](#) In: **19th Malaysian Urological Conference**
- 2010 [Indication for ultrasound.](#) In: **2010 UiTM CME**
- 2009 [Spectrum of breast asymmetries: a pictorial essay.](#) In: **7th Asian Breast Disease Association Teaching Course and Workshop**
- 2009 [False positive detection rate of R2-CAD in evaluation of breast lesions at Full-Field-Digital Mammogram \(FFDM\) .](#) In: **7th Asian Breast Disease Association (ABDA) Teaching Course and Workshop**
- 2009 [Dysphagia lusoria caused by an aberrant right subclavian artery.](#) In: **14th National Conference on Medical and Health Sciences**
- 2009 [Pulmonary AVM: diagnosis via spiral CT scan: a case report.](#) In: **14th National Conference on Medical and Health Sciences**
- 2009 [Detection of traumatic intra abdominal injuries using MSCT in Hospital Tengku Ampuan Afzan, Kuantan: our preliminary experience .](#) In: **2009 Annual Scientific Meeting College of Radiology**

- 2009 [Delay in diagnosis of blunt abdominal injuries in children and adolescents: a pictorial review of CT abdomen in HTAA.](#) In: **9th Asian Oceanic Society of Paediatric Radiology (AOSPR) Congress**
- 2009 [MSCT assessment of blunt abdominal trauma in paediatric and adolescent patients: our experience in Hospital Tengku Ampuan Afzan \(HTAA\), Kuantan, Pahang.](#) In: **9th Asian Oceanic Society of Paediatric Radiology (AOSPR) Congress**
- 2009 [The College of Radiology Mammogram Subsidy Programme at IIUM Breast Centre, Kuantan : an audit \(2004 -2008\).](#) In: **Asian Breast Disease Association (ABDA) 7th Teaching Course**

#### Book

- 2018 [Computed tomography of blunt abdominal trauma.](#) IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-461-2
- 2016 [Radiology self-learning module for students \(skull and brain\).](#) Nazdee Resources . ISBN 978-967-14101-0-3

#### Book Section

- 2018 [Introduction.](#) In: **Computed tomography of blunt abdominal trauma** IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-461-2 , pp.1-10
- 2018 [Liver injuries.](#) In: **Computed tomography of blunt abdominal trauma** IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-461-2 , pp.11-38
- 2018 [Splenic injuries.](#) In: **Computed tomography of blunt abdominal trauma** IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-461-2 , pp.26-38
- 2018 [Renal injuries.](#) In: **Computed tomography of blunt abdominal trauma** IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-461-2 , pp.39-52
- 2018 [Lower genitourinary tract injuries \(ureter, urinary bladder and urethra\).](#) In: **Computed tomography of blunt abdominal trauma** IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-461-2 , pp.53-74
- 2018 [Bowel and mesenteric injuries.](#) In: **Computed tomography of blunt abdominal trauma** IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-461-2 , pp.75-91
- 2018 [Adrenal injuries.](#) In: **Computed tomography of blunt abdominal trauma** IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-461-2 , pp.92-97
- 2018 [Pancreatic injuries.](#) In: **Computed tomography of blunt abdominal trauma** IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-461-2 , pp.98-105
- 2018 [Retroperitoneal injuries.](#) In: **Computed tomography of blunt abdominal trauma** IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-461-2 , pp.106-115

**2018** [Haemoperitoneum and active haemorrhage.](#) In: **Computed tomography of blunt abdominal trauma** IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-461-2 , pp.116-122

**2018** [Lower thoracic injuries.](#) In: **Computed tomography of blunt abdominal trauma** IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-461-2 , pp.121-129