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# RESEARCH ACTIVITIES REPORT CRU ASSOCIATE MEMBERS (CRAMS) AND CLINICIAN SCIENTIST COTERIE (CSC) FOR SERIE 2/2023

## SHARING FROM CRAMS AND CSC MEMBERS! 2/2023



By Salwana Ahmad

CRAMs Online Meeting was held every 2 months among CRAMs Members, Clinician Scientist Coterie (CSC) Members and staff among Hospital Pengajar, UPM and Faculty of Medicines and Health Sciences, UPM. This session was intended for the CRAMs members to share their research activities in the department and how they are coping with all the coming challenges and strive to keep moving forward. During the session, the members will have to present their research activities report comprising of remarkable research activities and outputs, promoting positive perceptions and motivation for facing challenges, improving clinical research, and cultivating research & networking. In light of cultivating the spirit of research and knowledge sharing, here are the summaries of the presentation shared for all of us to get to learn how is everyone is doing in proceeding with the quality research in UPM.



### DEPARTMENT OF RADIOLOGY

#### Background:

Previously, the Department of Radiology is an imaging unit which is placed under the Department of Medicine, FPSK. At the beginning of 2006, the unit was upgraded to the Department of Imaging, and the operation was fully based in Serdang Campus. The department aspires to be at the forefront of the Radiology Education, Research, and Center of Excellence in providing the best services with advanced diagnostic equipment and imaging art.

#### Services provided include:

- ❖ Neuro/Cerebrovascular & Stroke (Diagnostic & Intervention), MSK Radiology, Pediatric Radiology, Uroradiology & Prostate (Diagnostic & Intervention), Peripheral Intervention (Respiratory, Nephrology, Vascular & etc.) as well As Other Radiological services.
- ❖ Musculoskeletal therapy (MSK Therapy) - Institut Sukan Negara/National athletes in collaboration with orthopedics colleagues.
- ❖ Neurointerventional radiology services - private patients (referrals), referrals from other government facilities, referrals from South East Asia (foreign patients).



CRAMs Member:  
Dr. Mohamad  
Syafeeq Faez Bin  
Md Noh

### REMARKABLE RESEARCH ACTIVITIES AND OUTPUTS

#### Research Highlights and Achievements:

Bil.	Activities/Outputs	Researcher
1.	Establishment of Padimedical – Innovative Medical Platform	Prof. Dr. Ahmad Sobri Muda
2.	Assessment of task-based F-MRI paradigm among UPM students having smartphone addiction	Dr. Suzana Ab Hamid
3.	Morphology of articular cartilage of the knee using MRI 3T in young adults	Assoc Prof. Dr. Suriani Mohamad Saini
4.	Quantitative study of the myelination pattern in term neonates by using myelin water imaging in 3T MRI	Assoc Prof. Dr. Hasyima Abu Hasan
5.	Neurotherapeutic effects of curcumin lead induced cerebellar damage in a rat model; ACVS predicts neurological and radiological improvement in LVO and DVO post reperfusion therapy	Assoc Prof. Dr. Ezamin Abdul Rahim
6.	Comparison between direct and indirect arthrogram MRI of the shoulder in detecting intra- articular pathology among patients undergoing MRI shoulder in HPUPM	Dr. Idris Ibrahim
7.	Software as a service platform for big medical data management and machine learning in mobile applications	Dr. Anas Tharek

Table 1 Research activities occurring in the department.

**Research Activities:**

Research activities	Organizer	Date	Participation
'Bengkel Penulisan Proposal Geran Penyelidikan Siri 3/2022'	Faculty of Medicine and Health Sciences	27th Sept 20221	All senior and junior members of the department
'Bengkel Penulisan Case Report'	Department of Ophthalmology	13th Aug 2022	Speakers – Assoc. Prof. Dr Subapriya & Dr. Syafeeq.

**Highlight on Publication for 2022**

2.

**TMRI** Topics in Magnetic Resonance Imaging  
An Open Access Journal

Articles & Issues Collections For Authors Journal Info

**CASE REPORT**  
**The Utility of Vessel Wall Imaging in the Postulation of Acute Ischemic Stroke With Spontaneous Recanalization Pathophysiology**

Md Noh, Mohamad Syafeeq Faez MD, MMed (Radiology)<sup>1,†</sup>; Abdul Rashid, Anna Misyaail MD, MMed (Internal Medicine)<sup>2,§,¶</sup>; Hoo, Fan Kee MD, MRCP (UK)<sup>1,§</sup>; Bahari, Norafida MD, MRad<sup>1,†</sup>

Author Information

Topics in Magnetic Resonance Imaging 31(4):p 40-42, August 2022. | DOI: 10.1097/RMR.0000000000000298

OPEN Metrics

**More than 20 publications in the year of 2022**

1.

**Radiology: Cardiothoracic Imaging**

**IMAGES IN CARDIOTHORACIC IMAGING**

**Intracavitary Left Ventricular Lipoma**

Suzana Ab Hamid, MRad • Khalidin Muelim, MMed (Rad)

From the Department of Radiology, Hospital Pengiran Universiti Putra Malaysia, Universiti Putra Malaysia, 43400 Serdang, Malaysia. Received July 7, 2022; revision requested July 26; revision received August 1; accepted August 25. Address correspondence to S.A.H. (email: suzana@upm.edu.my).

Authors declared no funding for this work.  
Conflicts of interest are listed at the end of this article.

Radiology: Cardiothoracic Imaging 2022; 65(12):20144 • https://doi.org/10.1148/rysts.220144 • Content code: CA|CT|MR • © RSNA, 2022

**Figure 1:** (A) Color Doppler mode transthoracic echocardiogram shows a large hyperechoic mass [M] measuring 20.4 cm<sup>2</sup>, occupying circum half of the left ventricular [LV] cavity. (B) Cardiac CT angiogram demonstrates dilated LV with a large, nonenhancing fat-attenuation mass [M] measuring 6.0 X 5.7 X 5.3 cm and with an attenuation of -110 to -87 H.U. The mass is multilobulated, with blood pool contrast agent insinuated in between the lobulations [arrowed]. No foci of calcification or necrotic component are seen. RV = right ventricle.

4. **NEUROLOGY INDIA**

Publication of the Neurological Society of India

3.

**RADIOLOGY CASE REPORTS 17 (2022) 4268-4271**

Available online at [www.sciencedirect.com](http://www.sciencedirect.com)  
**ScienceDirect**  
journal homepage: [www.elsevier.com/locate/radcr](http://www.elsevier.com/locate/radcr)

**Case Report**  
**The prominent hypointense vessel sign on susceptibility-weighted imaging (SWI) as a potential imaging biomarker for poor clinical outcome in acute ischemic stroke (AIS)**<sup>☆</sup>

Anna Misyaail Abdul Rashid, MD, MMed<sup>a</sup>, Mohd Naim Mohd Yaakob, MD<sup>b</sup>, Mohd Fandi Al-Khafiz Kamis, MBBS, MRad<sup>c</sup>, Mohamad Syafeeq Faez Md Noh, MD, MMed<sup>b,\*</sup>

<sup>a</sup> Department of Neurology, Faculty of Medicine & Health Sciences and Universiti Putra Malaysia (UPM) Teaching Hospital, Serdang 43400, Selangor, Malaysia  
<sup>b</sup> Department of Radiology, Faculty of Medicine & Health Sciences and Universiti Putra Malaysia (UPM) Teaching Hospital, Serdang 43400, Selangor, Malaysia  
<sup>c</sup> Department of Radiology, Universiti Putra Malaysia (UPM) Teaching Hospital, Serdang 43400, Selangor, Malaysia

**NEUROIMAGING**  
Year : 2022 | Volume : 70 | Issue : 6 | Page : 2463-2464

**A Concomitant Sincipital Encephalocele in a case of Idiopathic Intracranial Hypertension**

Ping H Lau<sup>1</sup>, Hasyama Abu Hassan<sup>2</sup>

<sup>1</sup> Department of Radiology, Serdang Hospital, Kajang; Department of Radiology, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Serdang, Malaysia  
<sup>2</sup> Department of Radiology, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Serdang, Malaysia

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Malaysia  
Login to access the email ID

Source of Support: None, Conflict of Interest: None

Crossref Citations Check

5.

**SAGE journals**

Search this journal Enter search terms... Advanced search

Journal of Central Nervous System Disease

Journal indexing and metrics JOURNAL HOME

Open access Case report First published online July 8, 2022

**Vessel wall imaging in COVID-19 associated carotid atherothrombosis and stroke: a case report and literature review**

Mohamad Syafeeq Faez Md Noh, Abdul Hanif Khan Yusof Khan, L.-J., and Ahmad Sobri Muda

All Articles | <https://doi.org/10.1177/11795735221112589>

PDF / ePub Cite article Share options Information, rights and permissions Metrics and citations

6.

**NEURONEWS**

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SUBSCRIPTIONS

**Vessel-wall imaging could hold the key in "known yet understudied" phenomenon of spontaneous recanalisation**

28 October 2022 3789

Most read in past 7 days

Following the publication of a case report in *Topics in Magnetic Resonance Imaging*, researchers from Malaysia have indicated that the use of vessel-wall imaging (VWI) "could potentially serve as an imaging method to presumptively diagnose spontaneous recanalisation in patients with acute ischaemic stroke", although additional studies to investigate and validate this further are needed, they add.

"As spontaneous recanalisation in acute ischaemic stroke is an understudied subject, there is not much in the present literature to refer to, to better understand this phenomenon," first author of the study, Mohamad Syafeeq Faez Md Noh (University of Putra Malaysia, Serdang, Malaysia), told *NeuroNews*.

Inbrain Neuroelectronics secures funding for AI-powered graphene-brain interface 1 April 2022

Prior thrombolysis improves outcomes for M2 occlusion stroke patients



**PROMOTING POSITIVE PERCEPTIONS AND MOTIVATION FO, FACING CHALLENGES, IMPROVING CLINICAL RESEARCH, and CULTIVATING RESEARCH & NETWORKING.**

Challenges	Strategies
<ul style="list-style-type: none"> <li>Limited finding and time due to clinical services and burden of work as academicians/researchers</li> </ul>	
<ul style="list-style-type: none"> <li>Juggling with job redundancy (man hour)</li> </ul>	
<ul style="list-style-type: none"> <li>Difficulty in handling clinical data and the need for large data storage.</li> </ul>	<ul style="list-style-type: none"> <li>Attending seminars and seeking help for the clinical data (statistician) &amp; resources.</li> </ul>
<ul style="list-style-type: none"> <li>Difficulty in obtaining grants and collaborators to carry out the research projects.</li> </ul>	<ul style="list-style-type: none"> <li>Alternatively, try to find collaboration with other specialties, institutions, and industry partners</li> </ul>
<ul style="list-style-type: none"> <li>Limited leaders or peers in respective field/niche area</li> </ul>	<ul style="list-style-type: none"> <li>Collaborating with societies in Malaysia and overseas such as Bayern etc.</li> </ul>

 **DEPARTMENT OF UROLOGY**

**Background:**

The Department of Urology is previously known as Urology Unit, under the Department of Surgery, Faculty of Medicine and Health Sciences, UPM. The Unit started its operation in 2003 and started its clinical services at Hospital Serdang in year 2015, before converted into department by the University in 2020. The Department or Urology UPM is also the **first urological department established among the public universities in Malaysia.**

**Service provided include:**

- ❖ Specialized medical and surgical care in all major aspects of urology.
- ❖ Comprehensive urological services with a wide range of the latest state-of-the-art technologies such as **da Vinci® robotic surgical system, Koelis Trinity™ MRI-US fusion prostate biopsy systems, REZUM transurethral water vapor treatment** for benign prostatic enlargement, and many others more.
- ❖ Highlight the importance of the doctor-patient partnership in the pathway to recovery and wellness, by empowering patients and at the same time delivering patient-centric expertise and care.



**CRAMs Member:  
 Dr. Omar Ahmed Fahmy  
 Ahmed**

**Department Specialist and Lecturers:**

Team consists of 5 in the Faculty of Medicine and Health Sciences & 8 at the Hospital Sultan Abdul Aziz Shah, UPM:

- ❖ 3 Consultants (Professor VK7/ Associate Prof. DU55/Senior Lecturer DU56)
- ❖ 5 Specialists and 5 Medical Officers

**REMARKABLE RESEARCH ACTIVITIES AND OUTPUTS**

**Research Highlights and Achievements:**

**International Collaboration.**

Researcher	Title	Country
1. Prof. Dato’ Dr. Khairul Asri bin Mohd Ghani@Mamat 2. Dr. Omar Ahmed Fahmy Ahmed	Tubingen University – Wuerzburg University – BG Unfallkrankenhaun, Berlin	Germany
	University of Herdfordshire, Cornwall Royal Hospital, Truro	United Kingdom
	Oasi Research Institute-IRCCS, Troina, Italy	Italy
	King Abdul Aziz	Saudi Arabia
	Chinese University of Hong Kong	Hong Kong

**Publications with international collaborators:**

biomedicines MDPJ

Biomedicines, 2022 May; 10(5): 1101.  
 Published online 2022 May 10. doi: 10.3390/biomedicines10051101  
 PMID: PMC9138649  
 PMID: 35625837

**Adverse Events and Tolerability of Combined Durvalumab and Tremelimumab versus Durvalumab Alone in Solid Cancers: A Systematic Review and Meta-Analysis**

Omar Fahmy<sup>1</sup>, Osama A. A. Ahmed<sup>2,3,4</sup>, Mohd Ghani Khalidul-Asri<sup>1</sup>, Nabli A. Alhakamy<sup>2,3,4,5</sup>, Waleed S. Alharbi<sup>2,4</sup>, Usama A. Fahmy<sup>2,4</sup>, Mohamed A. El-Moselhy<sup>6,7</sup>, Claudia G. Frezza<sup>8</sup>, Giuseppe Caruso<sup>8,9,10</sup> and Filippo Carac<sup>8,9,10</sup>

Satoshi Wada, Academic Editor

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Journal List • Cureus • v.13(6);2021 Jun • PMC8291344

Associated Data

• Data Availability Statement

Abstract

Background: Recently, the combination of durvalumab and tremelimumab inhibitors, for the treatment of different types of cancers has been shown to have beneficial effects, including its safety, are still unclear and need to be further investigated. The purpose of the present systematic review and meta-analysis was to investigate the efficacy and safety of this combination of drugs. Methods: A systematic review of the literature was conducted using the Reporting Items for Systematic Reviews and Meta-analyses (PRISMA) 2020 checklist.

Randomized Controlled Trial Urolithiasis, 2022 Feb;50(1):113-117.  
 doi: 10.1007/s00240-021-01289-9. Epub 2021 Nov 22.

**Retrograde intrarenal surgery versus percutaneous nephrolithotomy for treatment of renal pelvic stone more than 2 centimeters: a prospective randomized controlled trial**

Maged Kamal Fayad<sup>1,2</sup>, Omar Fahmy<sup>3</sup>, Khaled Mukhtar Abulazayem<sup>2</sup>, Nashaat M Salama<sup>4,5</sup>

Affiliations + expand  
 PMID: 34807274 DOI: 10.1007/s00240-021-01289-9

Cureus Publishing Beyond Open Access

Cureus, 2021 Jun; 13(6): e15775.  
 Published online 2021 Jun 20. doi: 10.7759/cureus.15775  
 PMID: PMC8291344  
 PMID: 34295585

**Diagnostic Ureteroscopy in CT Urography-Diagnosed Upper Tract Urothelial Carcinoma: Delay in Definitive Treatment and Increased Intravesical Recurrence**

Monitoring Editor: Alexander Muacevic and John R Adler

Hadi SHSM<sup>01</sup>, Elizabeth Bright<sup>1</sup>, Mark Mantle<sup>1</sup>, Nicholas Munro<sup>1</sup> and Omar Fahmy<sup>2</sup>

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Abstract

Purpose

To investigate the effect of diagnostic ureteroscopy (URS) on the delay to surgical treatment of upper tract urothelial carcinoma (UTUC) detected by imaging and the risk of intravesical recurrence.

Materials and methods

We undertook a retrospective case-note analysis of all patients who underwent radical

ing the efficacy and safety of retrograde intrarenal surgery (RIRS) in larger than 2 cm against the percutaneous nephrolithotomy (PCNL). In October 2020, 121 patients were randomized to undergo PCNL (60 patients) or RIRS (61 patients). Both groups were compared in terms of operative time, intraoperative complications were assessed based on Clavien-Dindo grading system. Both groups were compared in terms of operative time, intraoperative complications were assessed based on Clavien-Dindo grading system. Both groups were compared in terms of operative time, intraoperative complications were assessed based on Clavien-Dindo grading system. Both groups were compared in terms of operative time, intraoperative complications were assessed based on Clavien-Dindo grading system.

The fund was provided by the collaborator for carrying out research and publications and they shared the benefits in terms of carrying out research and publications.

**List of grants secured for the department.**

Year	Type of Grants	Amount	Status
Until 30 Nov 2023	FRGS	RM192,000.00	Ongoing
Until 21 May 2023	Geran Putra Berimpak (GPB)	RM136,500	Ongoing
2 Aug 2023	Inisiatif Putra Muda (IPM)	RM56,600.00	Ongoing
30 June 2023	Inisiatif Putra Muda (IPM)	RM30,000.00	Ongoing
2023	Industrial Grant	RM20,000	Ongoing
2023	Dr. Ranjeet Bhagwan Sing Research Grant	-	Pending results
2023	MAKNA Cancer Research Grant	-	

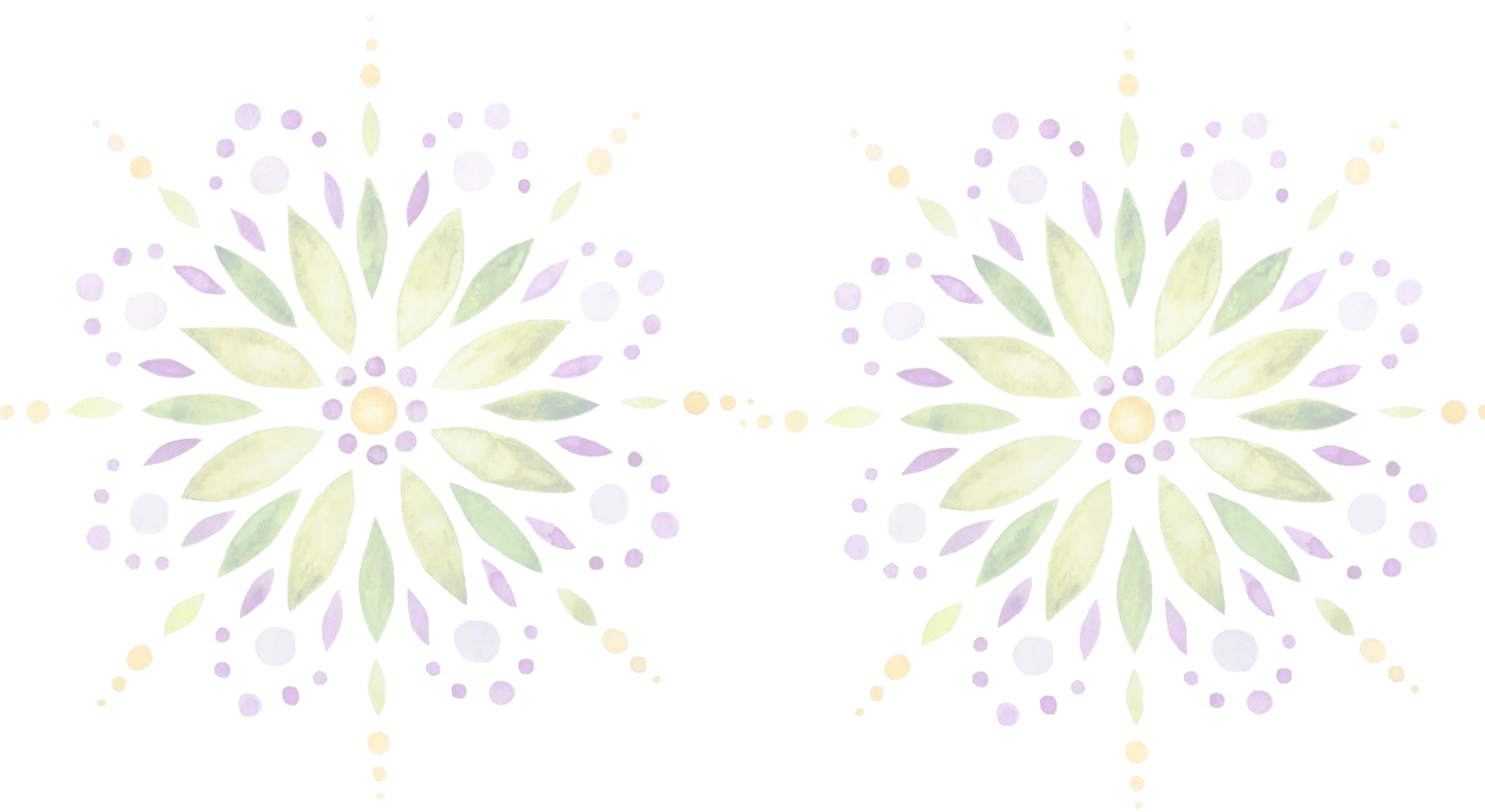
**Ongoing Clinical Trials.**

Bil.	Title	Achievements
1.	A Comparative Study of Transrectal vs transperineal -MRI fusion prostate biopsy under local anesthesia	2 article has been accepted & 6 article has been submitted for these projects for 2023
2.	Extracorporeal shockwave therapy for penile rehabilitation in post radical prostatectomy patients.	
3.	Smartphone Apps tracks ureteric stents with automatic reminders to prevent forgotten stents	
4.	Impact of preoperative bladder training on the outcome of TURP	
5.	ESWL vs URS in proximal ureteric stone 10- 20 mm size	
6.	Gyro ball preoperative exercise to increase the vein diameter before AVF	
7.	REZUM therapy for BPH	

## **PROMOTING POSITIVE PERCEPTIONS AND MOTIVATION FOR FACING CHALLENGES, IMPROVING CLINICAL RESEARCH, and CULTIVATING RESEARCH & NETWORKING.**

International collaboration can be very helpful in sharing funds for various purposes, such as carrying out research projects, publications, and more. Here are a few ways in which international collaboration can facilitate the sharing of funds:

- ❖ Pooling resources: When more groups collaborated, they can pool their resources to achieve research goals including include financial resources, as well as expertise, personnel, and equipment.
- ❖ Coordinating efforts: Help to coordinate efforts among multiple researchers, which can lead to more effective use of resources.



We would like to thank Dr. Syafeeq and Dr. Omar Ahmed for the sharing. We hope that the sharing can transform tacit knowledge into explicit, written, and easily communicated knowledge for the right people to receive the right information at the right time. See you the next time!.



Check out more information about our CRU Associate Members (CRAMs) for the Year 2022/2023 Member on HPUPM website at [CRAMs Members](#).



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