

College of Radiology
Office Bearers 2020 - 2022

President

Prof. Dr Norlisah Mohd Ramli

Immediate Past President

Dr Amir Fuad Hussain

Vice President-Oncology

Dr Muhammad Azrif Ahmad Annuar

Vice President-Nuclear Medicine

Dr Mahayuddin Abdul Manap

Vice President-Radiodiagnosis

Dr Naveen Rajadurai

Honorary Secretary

Dr Shantini A. Arasaratnam

Honorary Treasurer

Dr Sivakumaran Karupayah

Elected Council Member

Dr Thajunnisa Hassan Mohd

Elected Council Member

Dr Jeyaledchumy Mahadevan

Elected Council Member

Dr Thanuja Mahaletchumy

Elected Council Member

Prof. Dr Kartini Rahmat

College of Radiology

Special Interest Groups (SIGs)

Co-opted Council Member

SIG Neuroradiology

Dr Hilwati Hashim

Co-opted Council Member

SIG Molecular Imaging

Dr Farhana Fadzli

Co-opted Council Member

SIG Breast Imaging

Dr Vijayalakshmi Krishnapillai



Editor's Note (Prof Dr. Norlisah Mohd Ramli)

Assalamualaikum and a Good Day to all my colleagues.

Our appreciation and thanks to the contributors of our past Issue 4 - Jun 2021, Dr. Evelyn Ho, Dr. Naveen Rajadurai, Dr. Hasyma Abu Hassan, Dr. Vijayalakshmi S Krishnapillai, and Dr. Maizatul Jamny Mahmood, for their articles and updates.

Members are welcome to contribute articles suitable for **CoR Newsletter**. Please submit to secretariat@radiologymalaysia.org - for appropriateness, only articles vetted and approved by the Editorial Team will be published.

We are genuinely alarmed by the current worsening Covid-19 situation in our country and other parts of the world. It is the most testing period in our lives. Still, all we can do for now is to observe all SOPs that are in place and do our best in our ways besides remaining mentally strong as a whole radiology fraternity to continue rendering our utmost expertise and as individuals to keep ourselves safe. We have to keep the faith and continue to hope and pray for days free of Covid-19.

We now come to our current Issue 5 – Sep 2021, of the **CoR Newsletter**.

This issue brings you updates on CoR's recent webinars on Neuroradiology (Head & Neck), Body Imaging, Cardiac Imaging and MRI Online Remote Fellowship-Neuroradiology for your reading pleasure. I'm also excited to introduce our first Imaging Highlight on Radiation Necrosis. I encourage all members to share interesting cases that have educational values here.

Enjoy the reading and stay safe always!

Thank you.

Co-opted Council Member
SIG Cardiac Imaging
Dr Noor Khairiah A. Karim

Co-opted Council Member
SIG Body Imaging
Dr Zaharudin Haron

Co-opted Council Member
SIG Musculoskeletal Imaging
Dr Maizatul Jamny Mahmood

Co-opted Council Member
SIG Paediatric Imaging
Dr Hasyima Abu Hassan

Co-opted Council Member
Head of Services
Dr Yun Sii Ing

CoR Newsletter Editorial Team

Editor:
Prof. Dr Norlisah Mohd Ramli

Editorial Assistant:
Ms. Lesley Whitelaw

Although the Head & Neck fraternity in our country is still small, the interest is growing as evidenced by the increasing number of Radiologists subspecializing in it. General Radiologist will encounter many Head & Neck imaging daily, from simple cases such as Sinusitis to complex ones such as Head & Neck malignancy.

SIG NEURORADIOLOGY (HEAD & NECK) WEBINAR

an update by

Dr. Hilwati Hashim

Organising Chairperson

SIG Neuroradiology (Head & Neck) Webinar

The Covid 19 pandemic had a considerable impact on many aspects of our lives. The Movement Control Order imposed by our government to curb the pandemic meant that we could no longer attend nor organized courses or conferences the traditional way, face-to-face. To keep up with recent advances in Radiology amidst these restrictions, the College of Radiology, Academy of Medicine Malaysia has organized a series of online webinars covering every sub-specialty in Radiology.

The Neuroradiology, Head & Neck (NH&N) Special Interest Group (SIG) organized a webinar on 13 March 2021. Following the success of the Neuroradiology Seminar in 2019, we have decided to dedicate this Webinar solely to Head & Neck Imaging. Although the Head & Neck fraternity in our country is still small, the interest is growing, as evidenced by the increasing number of Radiologists subspecializing in it. General Radiologist will encounter many Head & Neck imaging daily, from simple cases such as Sinusitis to complex ones such as Head & Neck malignancy. Thus, this Webinar aimed to shed light on interpreting and reporting these cases and eventually helping radiologists in their daily work.

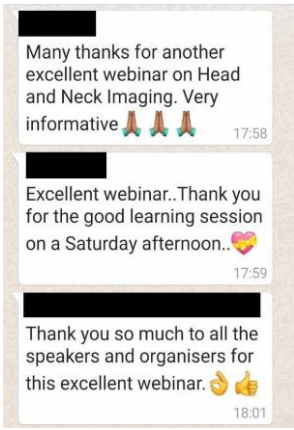
The four hours webinar was moderated by Assoc Prof Dr Hilwati Hashim, a Neuroradiologist from UiTM who is also the current Head of NH&N SIG. It covered 4 big topics, delivered by four distinguished local radiologists who have sub-specialised in Head & Neck Imaging.

Dr. Amali Ahmad, Consultant Radiologist from Hospital Kuala Lumpur, covered Sinus Imaging : CT PNS anatomy for FESS surgery and Inflammatory disease of the nasal cavity and sinuses.

Dr. Hafizah Mahayidin, Radiologist from Hospital Kuala Lumpur and a Specialist Trainee in Head & Neck Imaging, covered the topic of Oral Cavity: CT & MRI Anatomy and Common Pathology

Dr. Kasturi Nair Tangaraju, Consultant Radiologist from Hospital Tengku Ampuan Rahimah, Klang, covered the topic of Nasopharyngeal Carcinoma: Pertinent Anatomy, Imaging Protocol, Pattern of Spread, Staging & Post Treatment Changes.

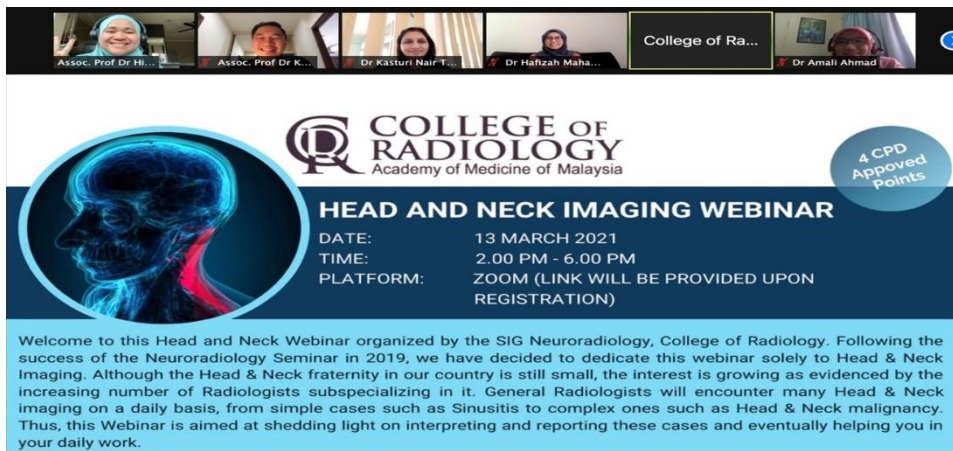
Assoc. Prof. Dr. Kew Thean Yean, Consultant Radiologist from Hospital Canselor Tuanku Muhriz Universiti Kebangsaan Malaysia covered Skull Base: Imaging of Lesions and Unexpected Lesions.



To ensure the smooth running of the event, the lectures were prerecorded by each speaker. However, this did not deter full engagement from the 222 audience members, as evidenced by the very active Question & Answer session that followed every lecture.

The feedback from the audience proved that this new format of CME was a success and welcomed by everyone, considering this pandemic and restrictions. The success of this event was also due to support from our Industrial Partner, Bayer Co (Malaysia) Sdn Bhd. A talk entitled Excellent Contrast and Macrocyclic Stability in CNS was given by Dr. May Lau Fei Cheng, their Regional Medical Advisor.

I would like to express my sincere appreciation to my speakers for their co-operation, commitment and making my job as an organizer very easy. A big thank you also to the secretariat at the College of Radiology for their support and dedication. Finally, thank you to the CoR Council, particularly the President, Prof. Norlisah Ramli, for their trust in the SIGs and opening the door for us to organize such an event.



SIG BODY IMAGING WEBINAR

The aims were to give exposure to young Radiologists on the imaging of common malignancy in Malaysia and a refresher on the current knowledge of imaging protocol, reporting templates and various expectations.

an update by
 Dr Zaharudin Haron
 Organising Chairperson
 SIG Body Imaging Webinar

The SIG Body Imaging Webinar held on 20 April 2021 received a high demand for registration from not just Malaysians but Brunei as well and we are pleased to be able to accommodate all. The topics were concentrated on Oncology Imaging of Rectal Carcinoma, Renal Malignancies, Prostate Carcinoma and Cervical Carcinoma. The aims were to give exposure to young radiologists on the imaging of common malignancy in Malaysia and a refresher on the current knowledge of imaging protocol, reporting templates, and various expectations.

The Team presented 8 lectures (7 clinical and 1 industrial).

COR - BODY IMAGING WEBINAR



DR SOON YUET YU
DESIGNATION:
 CLINICAL RADIOLOGIST, FELLOW IN URORADIOLOGY
CURRENT PLACE OF PRACTICE:
 HOSPITAL KUALA LUMPUR, HOSPITAL SERDANG
MEDICAL DEGREE:
 MBBS (MANIPAL), MMED.RAD (UKM)
SUBSPECIALTY:
 FELLOW IN URORADIOLOGY

Lecture : RCC and Its Spectrum



COR - BODY IMAGING WEBINAR



DR NADIA ABDUL MALIK
DESIGNATION:
 RADIOLOGIST
CURRENT PLACE OF PRACTICE:
 HOSPITAL KUALA LUMPUR, HOSPITAL SERDANG
MEDICAL DEGREE:
 MBBS (IIUM), Med (UKM) RADIOLOGY
SUBSPECIALTY:
 FELLOW IN URORADIOLOGY

Lecture : TNM Staging and its Relevance to Oncologic Imaging



COR - BODY IMAGING WEBINAR



DR NYAZIRAH BT ABDUL WAHAB
DESIGNATION:
 CLINICAL RADIOLOGIST
CURRENT PLACE OF PRACTICE:
 HOSPITAL SERDANG, HOSPITAL KUALA LUMPUR
MEDICAL DEGREE:
 MD (UKM), MMED (UKM) RADIOLOGY
SUBSPECIALTY:
 FELLOW IN URORADIOLOGY

Lecture : Bosniak Classification: Revisited



COR - BODY IMAGING WEBINAR



FELICIA CHOONG
CURRENT COMPANY
 DCH AURIGA (MALAYSIA) SDN BHD
DESIGNATION
 SENIOR MARKETING MANAGER
MEDICAL DEGREE:
 UNIVERSITY MALAYA (B.SC BIOMEDICINE TECHNOLOGY); 2005
1ST CLASS HONOUR
Working Experience

Company	Role	Period
Amalg Pharmacy Sdn Bhd	Client Business Manager	Feb 2006 – Jul 2009
EP Plus Group Sdn Bhd	Product Manager, Marketing	Aug 2007 – Nov 2009
Clemed Healthcare Sdn Bhd	Corporate Manager	Jul 2014 – Jun 2017
Smith & Nephew	Senior Product Manager	May 2014 – Jul 2014
Clemed Healthcare Sdn Bhd	Product Manager	Jan 2014 – Mar 2014
CCM Pharmaceuticals Sdn Bhd	Senior Sales & Marketing Executive	Jan 2011 – Dec 2013
CCM Pharmaceuticals Sdn Bhd	Product / Brand Manager	Jul 2008 – Jan 2011
All Rights Inc Sdn Bhd	Senior Sales & Marketing Executive	Feb 2007 – Jul 2008
MSD (Meredx Sharp & Dohme)	Product Specialist	Apr 2007 – Aug 2007
Boyer Healthcare Sdn Bhd	Product Specialist	Jul 2003 – Mar 2007

Talk : Introduction to Bracco Contrast Media



COR - BODY IMAGING WEBINAR



DATIN DR MALINDA ABD MAJID
DESIGNATION:
 URORADIOLOGIST
CURRENT PLACE OF PRACTICE:
 HOSPITAL KUALA LUMPUR
MEDICAL DEGREE:
 MD (UNIMAS), MMED RAD (UKM)
SUBSPECIALTY:
 FELLOWSHIP IN BODY IMAGING (URORADIOLOGY) MINISTRY OF HEALTH, MALAYSIA & UNIVERSITY OF NORTH CAROLINA, USA

Lecture : MPMRI Prostate (PIRADS 2.1)



COR - BODY IMAGING WEBINAR



DR. SARAH ADILAH BINTI MOHD SAID
DESIGNATION:
 RADIOLOGIST
CURRENT PLACE OF PRACTICE:
 INSTITUT KANSER NEGARA
MEDICAL DEGREE:
 MBBS, DR IN RADIOLOGY
SUBSPECIALTY:
 TRAINEE IN ONCORADIOLOGY

Lecture : MRI Anatomy Cervix, Uterus and Ovary



COR - BODY IMAGING WEBINAR



DR NORSUZIANI BINTI IBRAHIM
DESIGNATION:
 RADIOLOGIST
CURRENT PLACE OF PRACTICE:
 INSTITUT KANSER NEGARA, PUTRAJAYA
MEDICAL DEGREE:
 MD, USM 2003, MASTER IN RADIOLOGY, UKM 2015
SUBSPECIALTY:
 SPECIAL INTEREST IN GYNEONCO IMAGING

Lecture : MRI Cervix – PreEBRT, PostEBRT, Post Brachy



COR - BODY IMAGING WEBINAR



DR ZAHARUDIN BIN HARON
DESIGNATION:
 CLINICAL RADIOLOGIST
CURRENT PLACE OF PRACTICE:
 NATIONAL CANCER INSTITUTE, PUTRAJAYA
MEDICAL DEGREE:
 MD (UKM), MASTER IN RADIOLOGY (UKM)
SUBSPECIALTY:
 FELLOWSHIP IN BODY IMAGING ONCOLOGY (MOH MALAYSIA & EUROPEAN INSTITUTE OF ONCOLOGY MILAN ITALY)

Lecture : MRI rectal carcinoma: Imaging Technique, Tumour Staging, Role of MRI Pre and Post Neoadjuvant Chemotherapy



Miss Felicia Choong, Senior Marketing Manager, from Bracco presented "Introduction to Bracco Contrast Media" - a very informative and enlightening topic on each product's usage, dosage, availability, and safety.

The Team would like to thank Prof Dr. Norlisah Mohd Ramli, president of the College of Radiology, Cor, for organizing the Webinar, Bracco, for their kind sponsorship and looked forward to further opportunities to hold more webinars for the sake of continuous medical education among Radiologists.

SIG CARDIAC IMAGING WEBINAR

Revisiting the Heart: A Computed tomography-based Webinar

an update by
Dr Noor Khairiah A Karim
Organising Chairperson
SIG Cardiac Imaging Webinar

This webinar focused on imaging of the heart using CT, from basic Cardiac CT anatomy and pathology including cardiac masses and congenital heart disease to more advanced applications of CT Myocardial Perfusion and FFR-CT.

Revisiting the Heart: A Computed tomography-based Webinar held on 10 April 2021 via Zoom was successfully conducted by the SIG Cardiac Imaging Team of College of Radiology with sponsorship from Siemens Healthcare Sdn Bhd.

The Webinar competently moderated by Dr. Sharifah Intan Shafina Syed Abas had 100 participants.

Dr. Noor Khairiah A. Karim, the organising chairperson, delivered the opening remark, introducing and welcoming all participants to the Webinar.

This Webinar focused on imaging of the heart using CT, from the basic Cardiac CT anatomy and pathology including cardiac masses and congenital heart disease to more advanced applications of CT Myocardial Perfusion and FFR-CT.

8 lecture topics were discussed during the Webinar:

- 1. Cardiac CT: Patient Preparation and Scanning Protocol**
by Dr Kama Azira Awang@Ramli (Hospital Serdang)
- 2. Cardiac CT Radiation Dose Reduction Strategies**
by Dr Yusri Mohammed (Hospital Serdang)
- 3. Tips to Improve Cardiac CT images**
by Dr Norliza Othman (Hospital Sultanah Aminah)
- 4. Cardiac CT Anatomy: Coronaries and Structures**
by Dr Rositaa Mohd Ibrahim (Hospital Pulau Pinang)
- 5. Cardiac CT: How to Report and Apply CAD-RADS?**
by Dr. Noor Khairiah A. Karim (Advanced Medical and Dental Institute, Universiti Sains Malaysia)
- 6. Cardiac Calcifications in CT Imaging and Basic TAVI Reporting**
by Dr Hazrini Abdullah (Hospital Sultanah Aminah)
- 7. Cardiac and Pericardial Masses on Cardiac CT**
by Dr Sharifah Intan Shafina Syed Abas (Hospital Pulau Pinang)
- 8. Congenital Heart Disease: Diagnosis on Cardiac CT**
by Dr Khairil Amir Sayuti (Hospital Universiti Sains Malaysia)

More than that, there was a precisely educative and enlightening Industry Partner Talk from Siemens Healthineers by Ms Chin Wai Leng entitled **Functional CT Imaging: CT Myocardial Perfusion and FFR-CT**. Indeed, this Webinar has become an excellent opportunity for all participants to widen their knowledge and expertise.

This webinar session managed to achieve its objective and the main focus, imaging the heart through CT. The session went smoothly without any significant drawbacks and it was a success.

COLLEGE OF RADIOLOGY
Academy of Medicine of Malaysia

REVISITING THE HEART: A COMPUTED TOMOGRAPHY BASED WEBINAR

Date: 10 APRIL 2021
Time: 2.00 pm - 6.00 pm
Platform: Zoom (link will be provided upon registration)

The heart is one of the body's most essential organs. This webinar will be focusing on imaging the heart using CT, from the basics of Cardiac CT anatomy and pathology including cardiac masses and congenital heart disease through to more advanced applications of CT Myocardial Perfusion and FFR-CT. Topics on patient preparation, tips and tricks in scanning acquisition, optimizing scan and image quality, managing radiation dose, interpretation of CTA and cardiac calcifications as well as basic TAVI reporting will also be covered.

PROGRAMME

2.00 PM - 2.05 PM : Welcome and Introduction to Programme Dr Noor Khairiah A. Karim Organizing Chairperson	4.10 PM - 4.35 PM Cardiac CT: How to Report and Apply CAD-RADS? Dr Noor Khairiah A. Karim
2.05pm - 2.30 pm : Cardiac CT: Patient Preparation and Scanning Protocol Dr Kama Azira Awang@Rami	4.35 PM - 5.00 PM Cardiac Calcifications in CT Imaging and Basic TAVI Reporting Dr Hazrini Abdullah
2.30 PM - 2.55 PM : Cardiac CT Radiation Dose Reduction Strategies Dr Yusri Mohammed	5.00 PM - 5.25 PM Cardiac and Pericardial Masses on Cardiac CT Dr Sharifah Intan Shafina Syed Abas
2.55 PM - 3.20 PM : Tips to Improve Cardiac CT Images Dr Norliza Othman	5.25 PM - 5.50 PM Congenital Heart Disease: Diagnosis on Cardiac CT Dr Khairil Amir Sayuti
3.20 PM - 3.45 PM : Industry Partner Talk by Siemens Healthineers - Functional CT Imaging: CT Myocardial Perfusion and FFR-CT Ms Chin Wai Leng	5.50 PM - 6.25 PM Closing Remark Dr Sharifah Intan Shafina Syed Abas Moderator
3.45 PM - 4.10 PM : Cardiac CT Anatomy: Coronaries and Structures Dr Rositaa Mohd Ibrahim	

SPONSORED BY:
SIEMENS Healthineers

COMPLIMENTARY REGISTRATION
For 100 COR members. Participation is strictly with registration only.
: 03 8994 2808 or 0175409281 | : dionne@radiologymalaysia.org



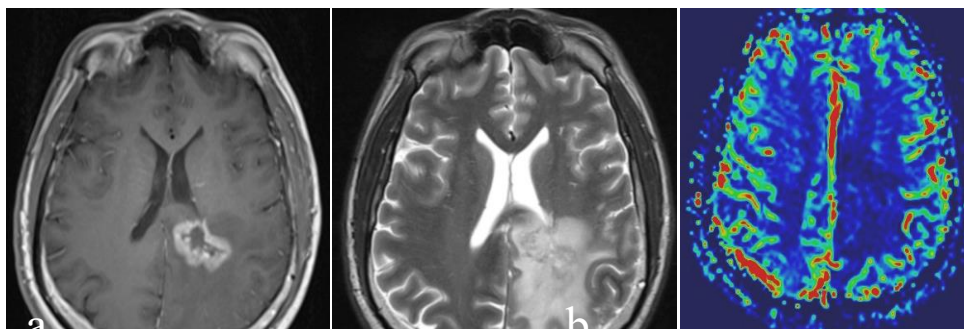
IMAGING HIGHLIGHT – RADIATION NECROSIS

an update by

Assoc Prof Dr. Shahizon Azura Mohamed Mukari

Imaging Highlight

A 41-year-old male with a previous history of brain tumour. He underwent excision and radiotherapy. Presenting with right-sided weakness.



MRI of the brain in axial T1W post-contrast (a), T2W (b), and rCBV map (c). An irregular ring-enhancing lesion in the left periventricular deep white matter does not show elevation of the rCBV on MR perfusion. Imaging findings are of radiation necrosis.

Radiation necrosis

The follow-up on patient with a primary brain tumour following resection and radiotherapy is done with MRI, mainly to look for the progress of a residual lesion, the development of recurrence, or the side effect of radiotherapy.

Changes in the brain related to radiotherapy are categorized into three phases depending on the onset of injury to the initiation of radiation therapy. The first, the acute complication occurs during the therapy and is mostly reversible. The early delay complication occurs from a few weeks up to 6 months following therapy, reversible mostly. The delayed complication occurs after 6 months of initiation of treatment and is often irreversible and progressive, leading to permanent damage to the glial tissue and endothelial cells.

In the delayed phase, pathologically, necrotizing leukoencephalopathy of the deep white matter is the result of coagulative necrosis with "mosaic" pattern, typically sparing the subcortical U fibres and the corpus callosum. Fibrinoid necrosis and hyalinization of the small arteries and arterioles are characteristics, with narrowing of the lumen and endothelial proliferation.

The findings on MRI of both tumour recurrence or radiation necrosis overlap and are indistinguishable, presenting as a new enhancing lesion with varying degree of white matter oedema which often is remote from the primary site of tumour, new periventricular deep white matter lesion with ill-defined borders and progressive enhancement on serial MRI. On T1 post-contrast, variable degree of enhancement from nodular, linear, curvilinear, "soap bubble" or "Swiss cheese" enhancement.

MR perfusion allows differentiation of tumour recurrence from radiation necrosis with tumour recurrence, demonstrating elevation of rCBV reflecting angiogenesis.

Suggested reading.

1. Nael K et al. Multiparametric MRI for differentiation of radiation necrosis from recurrent tumor in patients with treated Glioblastoma, AJR2018;210:18-23
2. Soussain et al. CNS complication of radiotherapy and chemotherapy. Lancet 2009;374:1639-1651
3. Osborn AG. Osborn's Brain. Imaging, Pathology and Anatomy 2013

MRI ONLINE REMOTE FELLOWSHIP - NEURORADIOLOGY

an update by

Dr Mazin Noordin
Department of Radiology
Regency Specialist Hospital
Johor

Dr Hilwati Hashim
Department of Radiology
Faculty of Medicine
Universiti Teknologi MARA
Selangor

Dr Nor Hafizah Abu Hassan
Department of Radiology
Hospital Melaka, Melaka

The rapid spread of the highly contagious global coronavirus disease 2019 (COVID-19) has created unprecedented changes in our daily life, overturned healthcare systems, and altered healthcare priorities. From an educational point, most clinical research activities and educational programs have been heavily impacted. Congress, seminars courses, and post-graduate training were put to a

halt due to various reasons such as student safety and travel restrictions, following the implementation of the first Movement Control Order (MCO) taking effect on 18 March 2020. Neuroradiology fellowship training and residency programs were no exceptions.

Gradually and thankfully, we saw more educational institutions regain their momentum to respond to the ever-changing needs to provide continuous training safely and effectively in the wake of the COVID-19 crisis. The world became restricted but broader at the same time. Neuroradiology Special Interest Group took a new direction to move forward in training via the online platform. The initiative was driven by the current President of the College of Radiology Malaysia, Professor Norlisah Ramli, enabling us to pursue a fellowship in a flexible manner. For the first time in Malaysia, the Neuroradiology fellowship training resumed remotely under the supervision of a global radiology icon, Professor David M Yousem, who is the Vice Chairman of Radiology and Professor in the John Hopkins Medicine Department of Radiology and Radiological Science. He was helped by Dr. Suresh Mukherji, another radiology icon who is a recognized authority in head and neck radiology.

The remote neuroradiology fellowship was a 10-week duration course, featuring 100 brains and spine MRI and CT cases for the top 50 diagnoses that equipped radiologists with better understanding and confidence in treating and reporting neurological diseases. During the course, 5 cases were assigned each week for each radiologist to evaluate and report. Each submitted report was reviewed by either Prof Yousem or Dr Mukherji themselves, who subsequently gave personalized 1 to 1 feedback highlighting the strengths and weaknesses of the report. A sample of gold standard reports was also given for each case to improve our reporting style. In addition, Journal articles related to the topics were given to us to enhance our understanding. A weekly discussion of the 5 cases was done live via an online platform, at a time that suits most participants. Apart from that, we were given access to videos of short lectures covering the pertinent area of Neuroradiology, with three 60 minutes of virtual lectures given by these renowned neuroradiologists.

It was indeed a hectic yet productive 10 weeks for most of us, trying to meet the deadlines of the weekly assignment. One might wonder if it was worth the money spent. There was no simple answer for that as everyone had a different lifestyle and financial commitment. The initial USD4000 fee was pricey for a 10-week course, especially after conversion to Malaysian ringgit. Fortunately, and much to our delight, Professor Norlisah Ramli managed to get many participants to join the program and successfully negotiated a group discount of 50%. Considering that we could gain first-hand and personalized training from a renowned neuroradiologist based in the United States, which would otherwise cost us an arm and a leg, most of us believed it was worth the money. The content was well organized with challenging cases. Although 10 weeks were undoubtedly too short to cover every single topic, the program did spark enthusiasm within us to further seek knowledge in the field of Neuroradiology.

Upon the completion of the program, not only do we gained more insightful knowledge and confidence in evaluating neuroradiology cases, but we also earned 50 CME points and a subspecialty certificate. In addition, we were given 2 years of direct access to MRI's online official website to enable us to continue reviewing and benefitting from the available videos, lectures, and discussion.

We would like to extend our heartfelt appreciation to Professor Norlisah Haji Ramli for paving the way to obtain what was previously impossible, remote neuroradiology training at the comfort of our homes. Furthermore, we congratulate MRI Online for the empowering and well-organized course and for trying their best to adjust the timing of the programs to suit our time. Not to be forgotten, a special thanks to our friends in the online group for being supportive and encouraging to each other. Last but not least, our hope is for the radiology fraternity to continue attaining education. Let's create opportunities for everyone to benefit from the new connectivity amongst the medical community worldwide.



Figure 1: Some of the participants in the MRI Online Remote Fellowship – NeuroRadiology, with Prof David Yousem, our instructor.

REPORT GRADE:
[Meets expectations]

FEEDBACK:
Good job.
A bit more on why ependymoma and not medulloblastoma, JPA, CPP or meningioma would be warranted.

REPORT GRADE:
[Exceeds expectations]

FEEDBACK:
That was just beautifully done.
Congrats again [redacted]
Wonderful!
The significance of this chordoma case is describing what it is doing to adjacent structures. That helps the surgeons/radiation oncologists.

REPORT GRADE:
[Exceeds expectations]

FEEDBACK:
Brilliant.
Very nicely done [redacted] You were omniscient on this one.
There are lots of bright dots bilaterally in the MCA distribution which should imply a cardiac origin of emboli. Add in the findings in the ventricles (DWI image 66/86) and you have to suggest there is purulent material in the ventricles. The other thing that can look like that in the vents is hemorrhage, but the ADC sequence with image 22/43 implies pus especially since the signal of the fluid is not bright on Sag T1W or very dark on T2W. Put that together and you have ventriculitis, meningitis, and likely septic emboli.

Figure 2: Excerpts from the personalized, 1 to 1 report that each participant received from the instructors.

Figure 3: Sample of certificate that each participant received.

