

CADANGAN SILIBUS PENGAJARAN SISTEM TERBUKA KEMENTERIAN KESIHATAN MALAYSIA (OS)

<u>Year</u>	<u>Theory</u>	<u>Practical / Film Reading Session</u>	<u>Contact hour (hr)</u>	<u>Assessment (log book)</u>
1	<p>An overview of hybrid imaging system . Outcome :</p> <ol style="list-style-type: none"> 1. Understanding on the differences between modality within Medical Imaging system 2. Able to recognize the differences between PET and SPECT systems 3. Understanding the role of CT in a hybrid system <p><i>(Dr Fikri / Dr A Jalil)</i></p>	Image acquisition observation	8hr x 4 dy/wk x 2 wks (64)	MCQ Log book
	<p>An overview on PET isotope production. Outcome :</p> <ol style="list-style-type: none"> 1. Understanding on the role of PET tracer-carrier concept 2. Understanding on the process of isotope production 3. Understanding on the quality assurance in isotope production <p><i>(En Hishar Hassan)</i></p>	Hotlab Observation	8	Log book
	<p>Radiation physics in PET system Outcome :</p> <ol style="list-style-type: none"> 1. Understanding the physics of PET annihilation process 2. Understanding on the type of PET crystal and hardware system 3. Understanding on radiation protection in PET facility <p><i>(Cik Salasiah Mustafa)</i></p>	Radiation protection Observation	8	Log book

	<p>Introduction to PET CT imaging interpretation</p> <p>Outcome :</p> <ol style="list-style-type: none"> 1. Understanding the normal distribution of isotope-tracer 2. Understanding pitfalls in imaging technical and biological 3. Understanding on clinical indication for PETCT imaging studies <p>(Dr Fikri / Dr A Jalil)</p>	<p><u>1.Guided use of workstation</u> <u>Image manipulation :</u> <u>2.Normal distribution</u> <u>3. Pitfalls – technical and biological</u></p>		<p><u>No of cases discussed (40 cases)</u> <u>(5 cases/dy x 4 x 2 weeks)</u></p>
1	<p>Overview on PET CT image acquisition process</p> <p>Outcome :</p> <ol style="list-style-type: none"> 1. Understand how PETCT image is acquired 2. Understand how the reconstruction process is done <p>(Radiographers / Radiologists)</p>	<p><u>Image Acquisition observation</u></p>	<p><u>8 hrs</u></p>	<p><u>Log book</u></p>
2	<p>Clinical value of PET CT imaging</p> <p>Outcome :</p> <ol style="list-style-type: none"> 1. Understanding why PET CT become important modality in medical imaging . 2. Able to list important clinical indications for PETCT imaging 3. Able to list other (extreme) indications 4. Understanding the role of PET CT in initial staging , restaging and monitoring treatment response 5. Understanding the prediction and prognostic role of PET CT imaging <p>(Dr Fikri / Dr A Jalil)</p>	<p><u>Guided image manipulation on Head and Neck Cancers</u></p>	<p><u>4 hrs</u></p>	<p><u>Log book</u> <u>Student lecture x 1</u> <u>Discussed cases x 5/week</u></p>

	Overview of PETCT in Head and Neck Cancers Outcome : 1. The clinical scope of head and neck cancers in PETCT imaging 2. Overview of TNM staging	<u>Guided image manipulation on Head and Neck Cancers</u>	<u>4 hrs</u>	
	Overview of PETCT in Lung Cancers Outcome : 1. The clinical scope of lung cancers in PETCT imaging 2. The TNM staging	<u>Guided image manipulation on Lung Cancers</u>	<u>4 hrs</u>	<u>Log book</u> <u>Student lecture x 1</u> <u>Discussed cases x 5/week</u>
2	Overview of PETCT in Lymphoma Outcome : 1. The clinical scope of lymphoma in PETCT imaging 2. The staging	<u>Guided image manipulation on Lung Cancers</u>	<u>4 hrs</u>	<u>Log book</u> <u>Student lecture x 1</u> <u>Discussed cases x 5/week</u>
	Overview of PETCT in Colorectal Cancers Outcome : 1. The clinical scope of colo rectal cancers in PETCT imaging 2. The TNM staging	<u>Guided image manipulation on colorectal Cancers</u>	<u>4 hrs</u>	<u>Log book</u> <u>Student lecture x 1</u> <u>Discussed cases x 5/week</u>
	Overview of PETCT in infection and inflammatory conditions			

	<p>Outcome :</p> <ol style="list-style-type: none"> 1. The clinical scope of infection and inflammatory conditions in PETCT imaging 	<p><u>Guided image manipulation on infection and inflammatory conditions</u></p>	<p><u>4 hrs</u></p>	<p><u>Log book</u> <u>Student lecture x 1</u> <u>Discussed cases x 5/week</u></p>
3	<p>Overview of PETCT in NET</p> <p>Outcome :</p> <ol style="list-style-type: none"> 1. Understanding the concept of NET receptor imaging 2. The clinical scope of NET cancers in PETCT imaging 3. The TNM staging 	<p><u>Guided image manipulation on NET</u></p>	<p><u>4 hrs</u></p>	<p><u>Log book</u> <u>Student lecture x 1</u> <u>Discussed cases x 5/week</u></p>
	<p>Overview of PETCT Breast Cancer</p> <p>Outcome :</p> <p>The clinical scope of breast cancer in PETCT imaging</p>	<p><u>Guided image manipulation on Lymphoma</u></p>	<p><u>4 hrs</u></p>	<p><u>Log book</u> <u>Student lecture x 1</u> <u>Discussed cases x 5/week</u></p>
3	<p>Overview of PETCT myocardial viability</p> <p>Outcome :</p> <p>The clinical scope of myocardial viability in PETCT imaging</p>	<p><u>Guided image manipulation on myocardial viability</u></p>	<p><u>4 hrs</u></p>	<p><u>Log book</u> <u>Student lecture x 1</u> <u>Discussed cases x 5/week</u></p>
	<p>Overview of PETCT myocardial perfusion</p> <p>Outcome :</p> <p>The clinical scope of myocardial perfusion in PETCT imaging</p>	<p><u>Guided image manipulation on myocardial perfusion</u></p>	<p><u>4 hrs</u></p>	<p><u>Log book</u> <u>Student lecture x 1</u> <u>Discussed cases x 5/week</u></p>

