



KEMENTERIAN KESIHATAN MALAYSIA

# TAKLIMAT PENYUMBERLUARAN PESAKIT DARI HOSPITAL KKM KE KPJKS

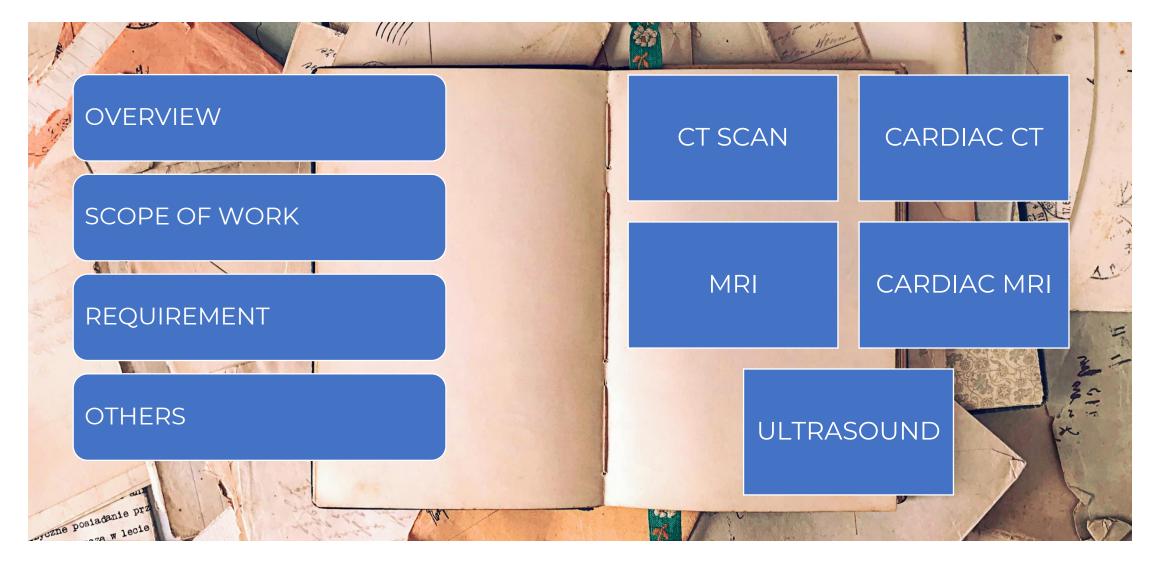
8 FEBRUARI 2024 KOMPLEKS INSTITUT KESIHATAN NEGARA (NIH), SHAH ALAM, SELANGOR



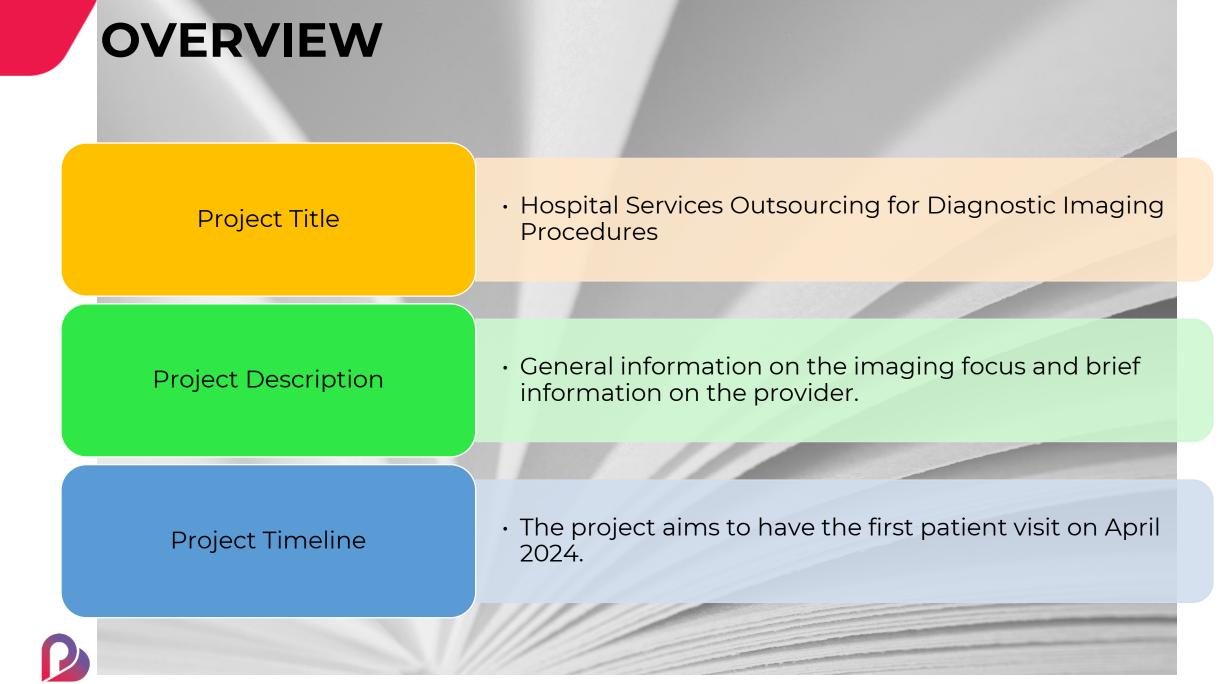
### HOSPITAL SERVICES OUTSOURCING PROJECT: RADIOLOGY

8 February 2024

### PRESENTATION OUTLINE







### SCOPE OF WORK – CT SCAN

#### **Detailed Description**

• List of CT services

#### Patient Selection/Eligibility for the Service

• Malaysian, focusing on elective/semi-urgent cases.

#### Potential Volume

· 18,000

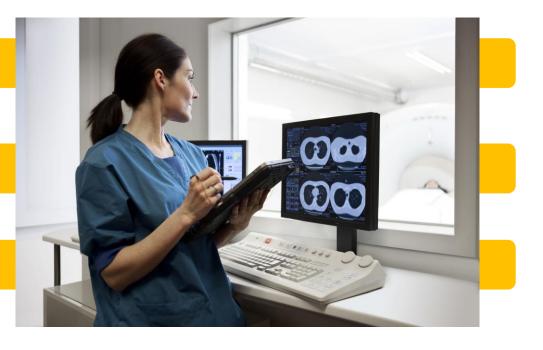
#### Pre-procedural Care

• Consent form and pre-imaging medication

#### Post-procedural Care

• Emergency crisis





## **REQUIREMENT – CT SCAN**

Equipment List of Equipment Needed Equipment license System for maintenance, calibration and quality assurance Staffing Radiologists, Radiologic technologists, and supporting staffs Requirements Board-certified and licensed with clinical experience CV and reference letter Facility Emergency response Requirements Radiology Department



# **REQUIREMENT – CT SCAN**

PROTECTHEALTH

Medication	IV Piriton		
	IV Hydrocortisone		
	B-blocker/Calcium channel blocker		
Miscellaneous	Low Osmolar Contrast Media		
	Oral water on Table		
	Special preparations		
Reporting Requirements	CD/DVD		
	Report within maximum of five (5) working days after the procedure		
	Image Archiving and Storage		

# SCOPE OF WORK – CARDIAC CT

#### **Detailed Description**

Calcium Score and CT Coronary angiography

#### Patient Selection/Eligibility for the Service

• Malaysian, focusing on elective/semi-urgent cases.

#### Potential Volume

· 1300

#### Pre-procedural Care

• Counseling on cardiac CT scan necessity, procedure, and potential risks.

#### Reporting

• Report within maximum of five (5) working days after the procedure



### REQUIREMENT – CARDIAC CT

PROTECTHEALTH

Equipment	CT Machine 128-slice, complete with cardiac soft	ware and post processing
Needed	Emergency trolley	
	Defibrillator	
Staffing Requirements	Cardiologist and / OR Radiologist	
	Trained Radiographer	
	Paramedics	
Facility Requirements	CT suites	
	Observation area	
Medications	Radio-Iodine Contrast, Beta Blocker, Calcium Channel Blocker, Corticosteroid and Anti-Allergy	
Reporting	Should conform to CAD-RADS format of reporting	

# **SCOPE OF WORK – MRI**

#### **Detailed Description**

List of MRI services

#### Patient Selection/Eligibility for the Service

• Malaysian, focusing on elective/semi-urgent cases.

#### Potential Volume

· 15,000

#### Pre-procedural Care

· Consent form and pre-imaging medication

#### Post-procedural Care

• Emergency crisis





### **REQUIREMENT – MRI**

Equipment Needed	MRI system should be either 1.5T or 3.0T superconductive with a minimum bore size of 70 cm.	
	It must have dedicated MRI software tailored to specific organ systems.	
	Additionally, for cardiac MRI, it should align with cardiology specifications to ensure streamlined functionality.	
Staffing Requirements	Radiologist positions include NSR registration with a minimum of 3 years of experience.	
	For Cardiac Radiologist/Imaging Specialist, a minimum of 5 years of experience, NSR registration, and a minimum Level 2 CMR training.	
	Trained radiographers, including MR cardiac radiographers	
Facility Requirements	Emergency response	
	Radiology Department	



REQUIR	REMENT – MRI	
Medication	IV hydrocortisone	
	IV buscopan	
	Primovist	
	IV Piriton	
	Sedation	- Dung
Reporting Requirements	CD/DVD	

Report within seven (7) working days after the procedure.



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### SCOPE OF WORK – CARDIAC MRI

#### Detailed Description

• MRI of the Heart. The MRI require usage of contrast and in some cases needed infusion Adenosine.

#### Patient Selection/Eligibility for the Service

Malaysian, focusing on elective/semi-urgent cases.

#### **Potential Volume**

· 1500

#### Pre-procedural Care

Consent form and pre-imaging medication

#### Reporting

- Observation for 30 minutes post procedure
- Report should be submitted in PHCorp system within 3 working days
- CD images + Drive shall be desptached to the referral hospital within 5 working days







# **REQUIREMENT – CARDIAC MRI**

Equipment	1.5 OR 3T MRI machine with cardiac software package	
Needed	Emergency Trolley	
	Defibrillator	
Staffing	Cardiologist and / OR Radiologist	
Requirements	Trained Radiographer	
	Paramedics (for stress cardiac MRI)	
Facility Requirements	MRI suites	
	Observation area	
Medications	Adenosine (for stress cardiac MRI) Gadolinium contrast Corticosteroid	
Reporting	<u>Antiallergy</u>	Decembra (SCMD) quidelines for
	Society for cardiovascular Magnetic reporting cardiovascular magnetic re	

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### **ADDITIONAL INFORMATION - MRI**





# **SCOPE OF WORK – ULTRASOUND**

**Detailed Description** 

List of Ultrasound services

Patient Selection/Eligibility for the Service

Malaysian, focusing on elective/semi-urgent cases.

Potential Volume

· 10,000

Reporting

· General information on reporting

**Examination Details** 

Description terms based on parts



REQUIREN	MENT – ULTRASOUND
Equipment Needed	List of Equipment
	Equipment license
Staffing	Radiologists
Requirements	Board-certified and licensed with clinical experience
	CV
Facility Requirements	Emergency response
	Radiology Department
Reporting	Reason for Referral and History
Requirements	Report must be sent within 3 working days.
	Reporting Template

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### ADDITIONAL INFORMATION - ULTRASOUND





### **OTHERS**

#### Radiology Request Form

#### Consent and Checklist



Your Health, Our Mission



# THANK YOU

