



KEMENTERIAN KESIHATAN MALAYSIA



PROTECTHEALTH

# TAKLIMAT PENYUMBERLUARAN PESAKIT DARI HOSPITAL KKM KE KPJKS

8 FEBRUARI 2024

KOMPLEKS INSTITUT KESIHATAN NEGARA (NIH), SHAH ALAM, SELANGOR

CARDIOLOGY INVESTIGATION

# Presentation Outline

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- Overview
  - List of investigations
  - Scope of Work
  - Requirements
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# Overview

Project Title

Cardiology Investigations

Project Description

Hospital Services Outsourcing, under the purview of the Ministry of Health Malaysia

Project Timeline

The project aims to have the first patient visitor in April 2024

# List Of Investigation

- HOLTER
- STRESS ECHO
- EXERCISE STRESS TEST
- TTE
- TOE



# Scope Of Work - Holter Monitoring System

## Detailed Description

External monitoring and recording device(patch) on the chest wall over the period of 24H.

## Patient Selection/Eligibility

- Malaysian,
- Focusing on elective / semi-urgent cases

## Potential Volume

3000



# Scope Of Work - Holter Monitoring System

## Pre-procedural Care

Procedure consent

## Post-procedural Care

- Patient will present themselves to Private Center and return the Holter devices
- Submit in PHCorp system / Email within 2 week

## Follow-up

No Follow Up



# Requirement - Holter Monitoring System

## Equipment Needed

- Wireless OR Conventional Holter Monitor system
- Event Recorder Diary

## Staffing Requirements

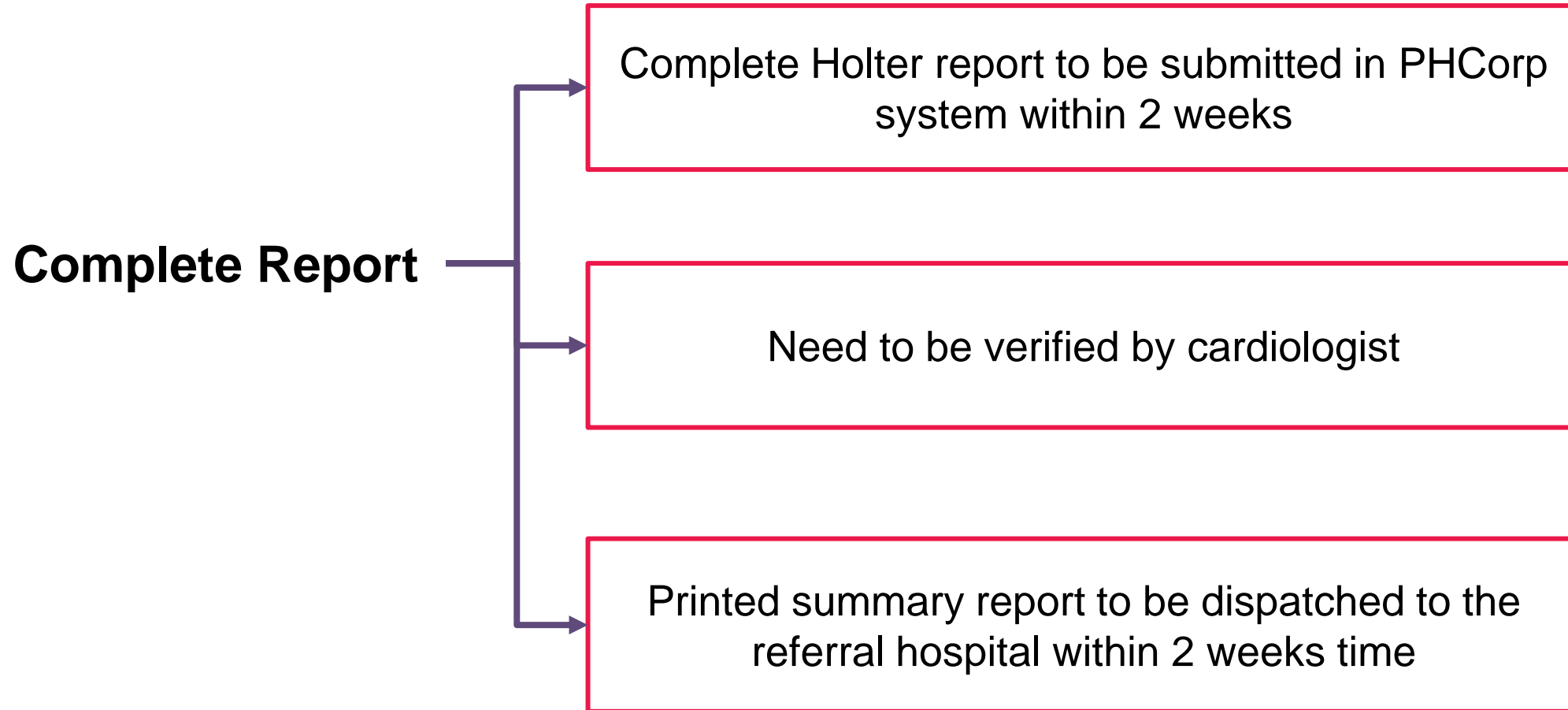
- Technician
- Cardiologist for conventional Holter only
- Chaperone

## Facility Requirements

- Appropriate room



# Reporting Requirement-Holter Monitoring System





# Scope Of Work-Stress Echocardiography

## Detailed Description

The patient need to be seen by the cardiologist, the procedure to be reported by cardiologist

## Patient Selection/Eligibility

Outpatient, selected by cardiologist or physician

## Potential Patient Volume

3000



# Scope Of Work-Stress Echocardiography

## Pre-Procedure Care

Consent for  
outsource &  
procedures, patients  
preparation

## Post Procedure Care

Emergency care

## Follow-up

No follow up



# Requirement - Stress Echocardiography

## Equipment Needed

- Treadmill Cardiac stress test system with BP monitor
- Infusion Pump
- Defibrillator
- Emergency Trolley

## Staffing Requirement

- Trained stress test technician
- Medical officer/ specialist standby during procedure
- NSR Certified Cardiologist to interpret report

## Facility Requirement

- Stress test procedure room



# Requirement-Stress Echocardiography

## Medication

- Dobutamine
- Atropine

## Reporting Requirements

- Procedure Summary & Report
- Urgent Attention Memo



# Scope Of Work-Exercise Stress Test

Detailed Description

Patient need to be seen by the cardiologist, the procedure to be reported by cardiologist

Patient Selection/Eligibility

Outpatient, selected by cardiologist or physician

Potential Patient Volume

3000



# Scope Of Work - Exercise Stress Test

## Pre-Procedure Care

Consent for  
outsource &  
procedures, patients  
preparation

## Post Procedure Care

Emergency care

## Follow-up

No follow up



# Requirement Exercise Stress Test

## Equipment Needed

- Treadmill Cardiac stress test system with BP monitor

## Staffing Requirement

- Trained stress test technician
- Dr standby during procedure
- Cardiologist to interpret report

## Facility Requirement

- Stress test procedure room
- Emergency trolley with Defibrillator



# Requirement-Exercise Stress Test

## Reporting requirement

- Complete stress test interpretation report including pre test, all stages during stress test and recovery
- Full report with written consent





# Scope Of Work-Echocardiography, Transthoracic (TTE) Echocardiography, Transoesophageal (TOE)

## Detailed Description

To see by the cardiologist, During procedure, ECG Lead should be connected

## Patient Selection/Eligibility

Outpatient, selected by cardiologist or physician

## Potential Patient Volume

3000



# Scope Of Work-Echocardiography, Transthoracic (TTE) Echocardiography, Transoesophageal (TOE)

## Pre-Procedure Care

Consent of  
outsource/  
procedure advice to  
patient

## Post- Procedure Care

CD image, written  
report (5 working days)

## Follow-up

No follow up



# Requirement Echocardiography, Transthoracic (TTE)

## Equipment Needed

- Transthoracic Echocardiography Machine
- BP Monitoring
- Emergency Trolley

## Staffing Requirements

- Cardiologist
- Chaperone
- Liaison Officer

## Facility Requirements

- Standard procedure room

## Facility Requirements

- Transthoracic echo Guide 2018
- Report should be enter in PHCorp



# Requirement Echocardiography, transoesophageal (TOE)

## Equipment Needed

- Transthoracic Echocardiography Machine
- Transoesophageal Echocardiography Probe
- BP Emergency
- TrolleyMonitoring

## Staffing Requirements

- Cardiologist
- Chaperone
- Liaison Officer

## Facility Requirements

- Standard procedure room

## Medications

- Lignocaine spray
- Dormicum/ Midazolam
- Fentanyl

## Reporting Requirements

- Procedure Summary & Report



**THANK YOU**