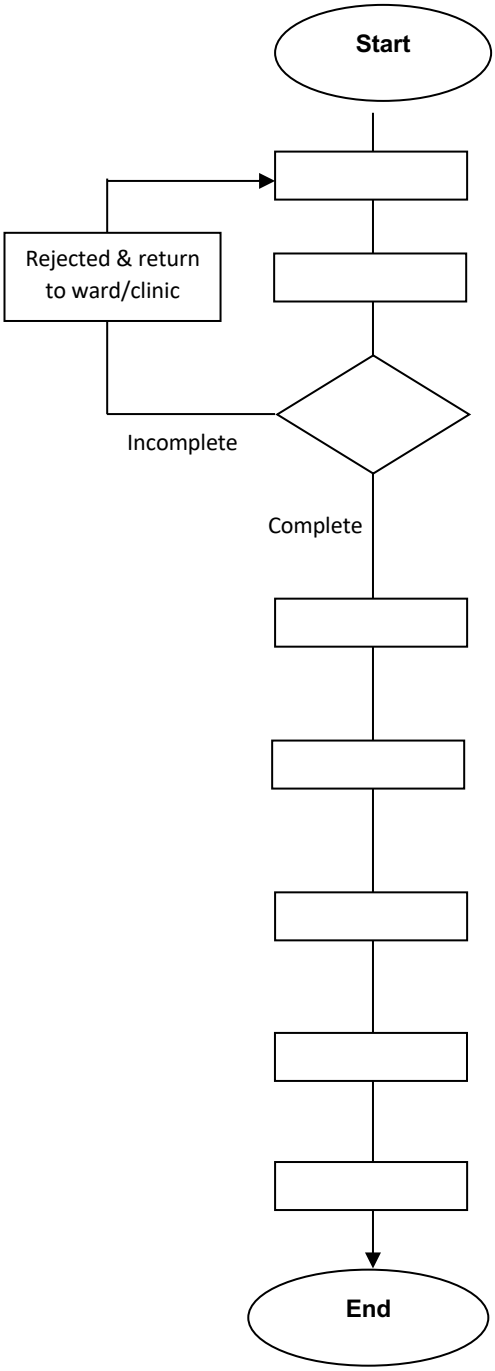
WORK PROCESS OF THERAPEUTIC DRUG MONITORING (TDM) SAMPLE REQUEST AND INTERPRETING SAMPLE ANALYSIS RESULTS

RESPONSIBILITY	PROCESS
Medical Officer	1. Identify patients who need TDM services. Complete the TDM request form with the required data. • Name, MRN, age, gender, and weight • Name of ward/unit • Diagnosis • Name of medication, dose, and frequency of medication • The date the medication was started • Date and time the blood sample was taken • Other data if required (altitude, laboratory data) 2. Make an ordering test through 'Clinicare'
Nurses	3. Take a blood sample of the patient.
Pharmacist	4. Screening of request forms • If the form is incomplete, contact the Prescriber on duty to inform. • If the blood sampling time taken is not accurate, the request form will be rejected. 5. Write down the running number and record the TDM application in the TDM patient register record (excel sheet).
Nurses/Medical Health Assistant (PPK)	6. Send blood samples and TDM request forms to the Pathology Department Laboratory if the request form and sample are approved by pharmacist.
Medical Laboratory Technologist (JTMP)	7. Receive the TDM request form along with the blood sample. 8. Centrifuge the blood sample before sending it to the outsourced Pathology laboratory. 9. Obtain test results from the outsourced pathology laboratory.

Pharmacist	10. Perform clinical interpretation and provide dose recommendations or modifications if results do not meet therapeutic targets and document recommendations in the TDM form. 11. Inform the decision to the prescriber on duty by telephone as well as documentation of the name of the recipient of the decision in the TDM form. 12. Sign on the original form of TDM request after interpretation is made. 13. Make a second copy of the TDM report. 14. Inform the ward/unit/clinic to take the original copy of the TDM request form at the pharmacy department. 15. Record the results in the TDM daily excel sheet record and 'Clinicare'.

FLOW CHART OF THERAPEUTIC DRUG MONITORING (TDM) SAMPLE REQUEST AND INTERPRETING SAMPLE ANALYSIS RESULTS



Work flow	Responsibility
Identify patients who need TDM, complete the form and make an ordering test through Clinicare	Medical Officer
Take a blood sample	Nurses
Screen the TDM request form	Pharmacist
Send blood samples & TDM form to Pathology Laboratory	Nurses/Medical Health Assistant
Receive, centrifuge, and send the sample to outsourced laboratory and obtain the test result	Medical Laboratory Technologist (JTMP)
Interpret the results, make clinical recommendations and inform the prescriber on duty	Pharmacist
Send the original copy of the TDM form to the respective ward/unit	Pharmacist
Record the result in a daily excel sheet record and Clinicare	Pharmacist