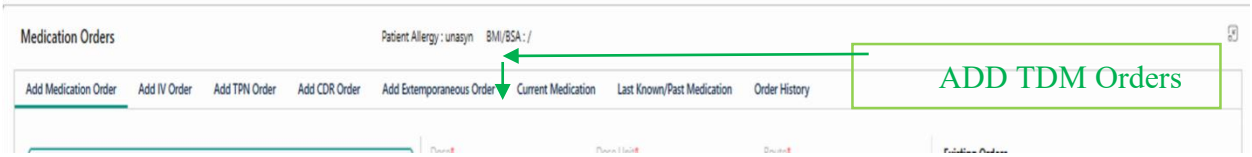
Requirements No 1

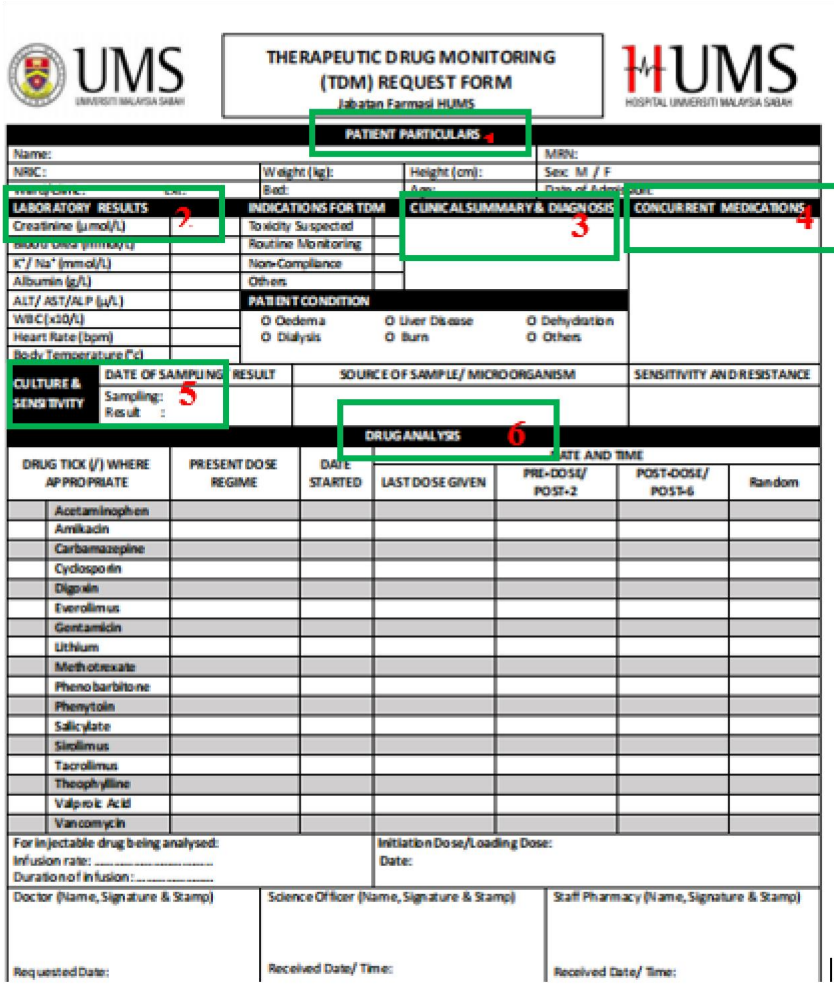
Navigation : Clinicare > In patients/ out patients > Assesment/ reassessment > Add medication

Following changes are required in the add medication screen

1. Add TDM order Tab

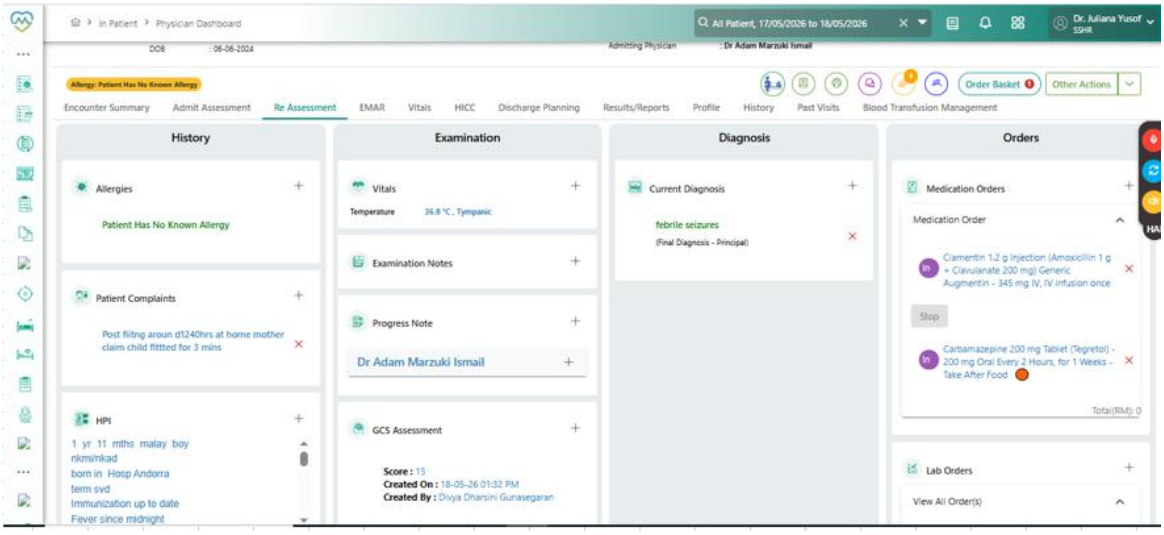


2. After going to TDM tab, this form (TDM Ordering Form) should populate and should be editable and this form should be hard coded in the system.



3. Patients particulars should be auto-populate (Point 1 as shown in the above form)
4. For Lab results hyperlink should be added from lab results (Results > Clinicare) so that doctor can view the lab reports. Body temperature and heart rate should autopoulate from vitals (latest reading)
5. diagnosis , and concurrent medications should auto populate from current visit (Point ,3,4)
6. User should be able to mark indications for TDM and with others, it should be editable for key in data.
7. If Patient is on antibiotics, and have culture sensitivity test done, then data should autopopulate. (hyperlink for lab results > CULTURE sensitivity test)
8. When doctor mark the drug that require TDM , Present dose regimen , date started and last dose given should be autopopulated from the data of current visit. All the data under drug analysis should be editable and can be mark by the user
9. Drug data for infusion rate and loading dose should be auto populate from current visit also.
10. System should allow adding another drug , that are not listed in the form by adding one new row and that should be editable . I.e., User should be able to key-in the medication name.
11. System should also allow printing of this form
12. There should be clear, save , save and exit buttons
13. After saving and ordering the basket , this data should flow to clinical pharmacy module
14. When doctor has ordered TDM , the flag should appear in SOAP notes (Clinicare > in patients > physician dashboard). Flag can be in the form of batches that reflect the drug has been ordered for TDM and also showing status

- TDM
- Sampling Due
- Result Ready

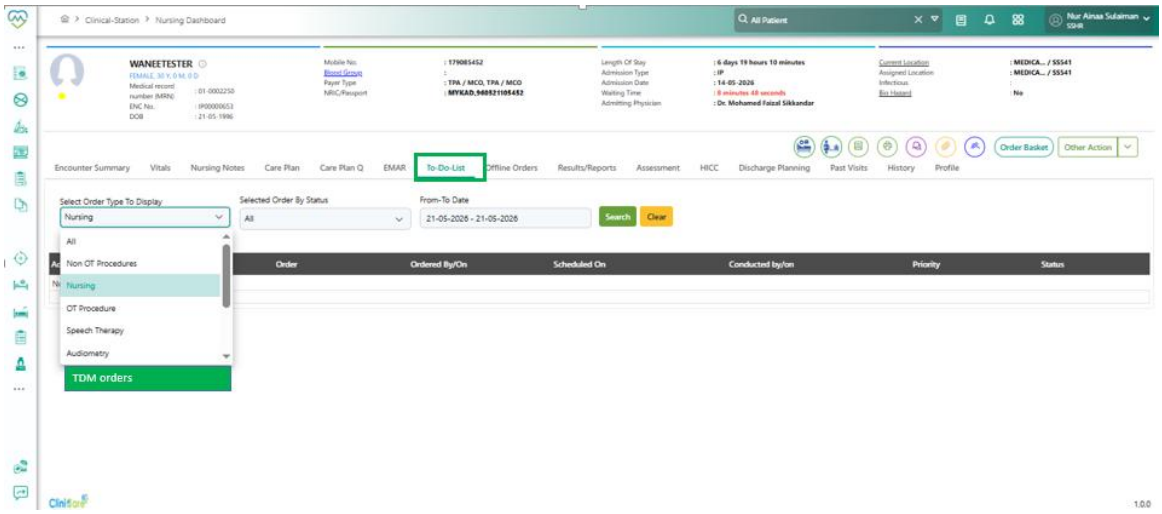


Navigation : Selgate admin > Nursing stations > To Do list

Requirement No 2:

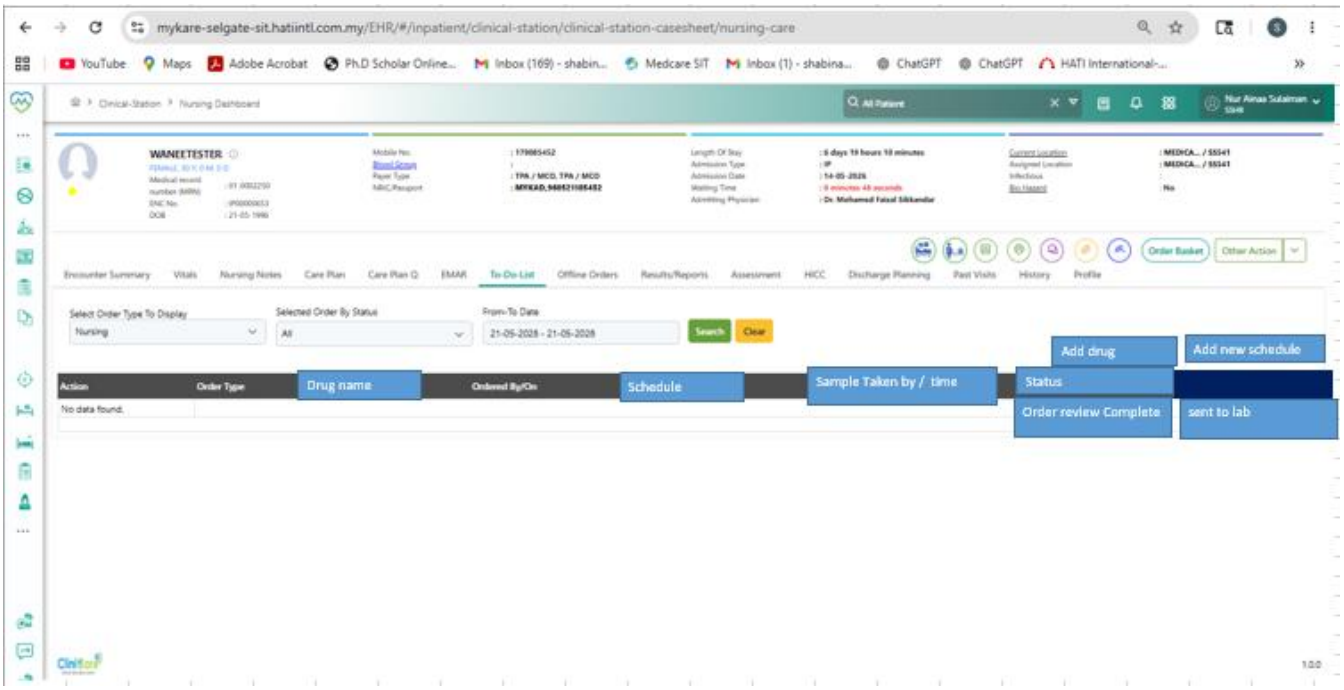
a) Whenever doctor order any TDM of medication, it should appear in To Do List (Nursing Station)

b) Add option of ADD TDM ORDERS in drop down of to do list



c) Nursing Staff will take Sample for TDM and system should allow user to enter sample taking detail

D) System should allow adding new drug name and adding new schedule

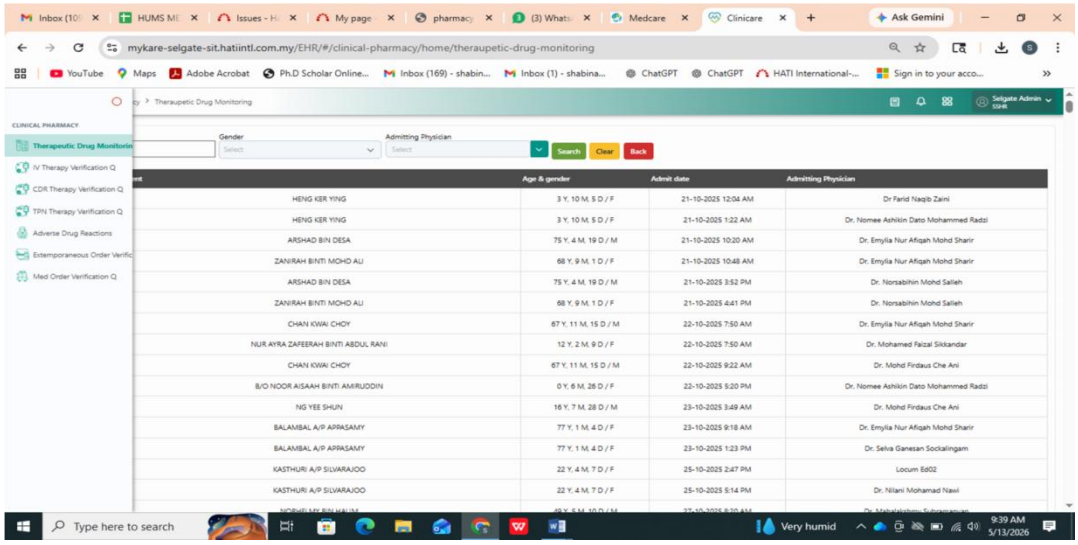


E) Drug name should auto-populate from doctor ordering screen and if 2 drugs has been orderd by TDM , user can key-in drug or may select from drop down.

F) Sample taken by should auto-populate with default user login and time can be key-in

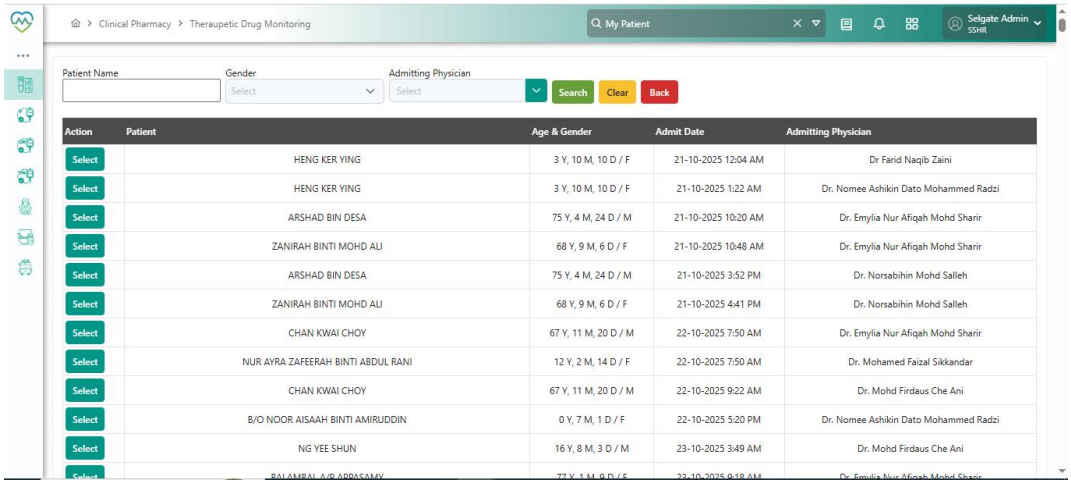
G) When pharmacy user complete order review , Status should change to order review completed (med-care clinical pharmacy) and other button appear for user to select sent to lab.

Navigation: Selgate admin > Clinical pharmacy



Requirement No 3

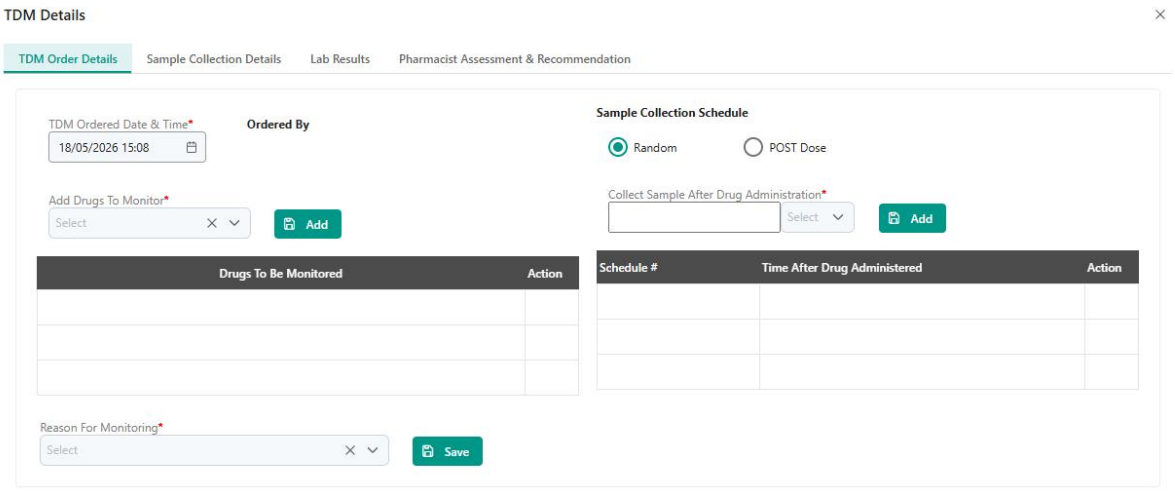
a) If doctor has ordered TDM for any patient, the patient should appear in TDM clinical pharmacy module. (Medcare > Pharmacy > Clinical pharmacy > TDM wroklist)



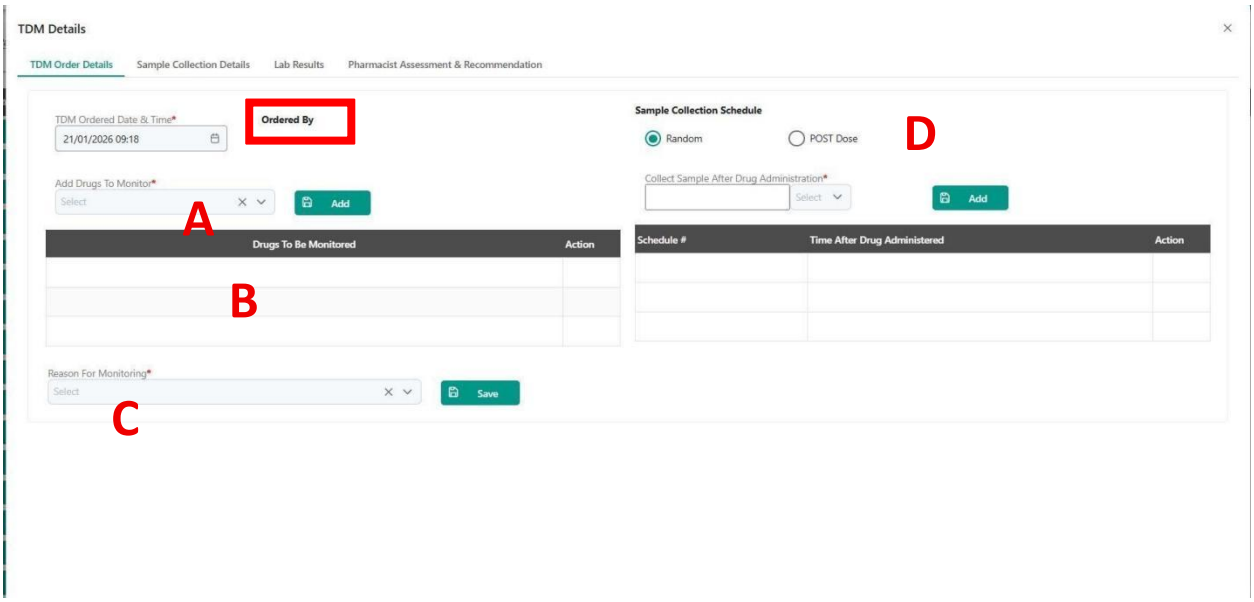
b) Here , should be one column added for status of TDM , upon clicking the view button , the user can be able to view and following screen pop up

Schedule	Sampling	Sent to Lab	Result Uploaded	Time
Sample 1	✅	✅	✅	08:00 AM
Sample 2	✅	✅	⏳	02:00 PM
Sample 3	❌	❌	❌	08:00 PM

c) After selecting the patient, the following window pop up



d) Either in TDM Order Details, the whole form should appear **(Filled form from the consultation screen. TDM ordering form)** Or the following changes are required to be done



e) TDM ordered date and time should come by default e Remove Ordered By

f) By default the ordered drug should appear and in dropdown, following drug options should appear. (Data can be fetch from drug master)

- ACETAMINOPHEN
- AMIKACIN
- CARBAMAZEPINE
- CYCLOSPORIN
- DIGOSIN
- EVEROLIMUS
- GENTAMICIN
- LITHIUM
- METHOTREXATE
- PHENOBARBITONE
- PHENYTOIN
- SALICYLATE
- SIROLIMUS
- TACROLIMUS
- THEOPHYLLINE
- VALPROIC ACID
- VANCOMYCIN

g) This will allow user to select the drugs, if multiple drugs are required for TDM

After clicking the add button, the selected drug should appear in the **B** filed. And in the action Button , following options should be in dropdown

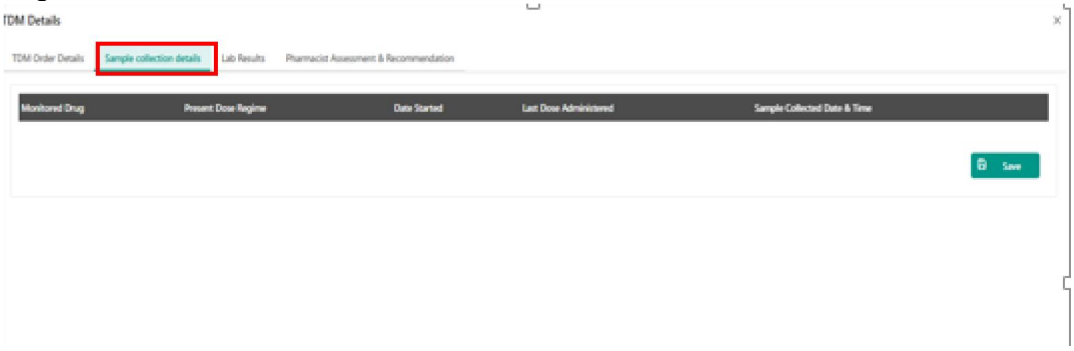
a. Start
b. Continue
c. Hold

h Reason of monitoring should auto populate by default and in Dropdown following options should be there to allow user to select. (C)

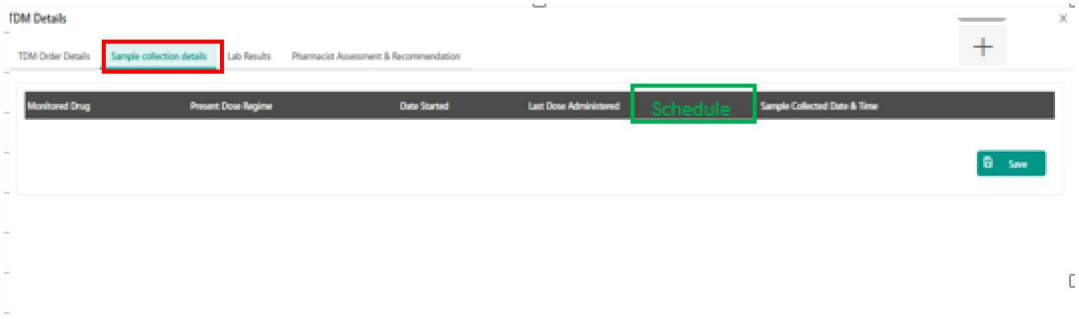
a. Toxicity suspected Routine Monitoring
b. Non-Compliance
c. Others

i Sample Collection schedule (D) should remain same and in either case, either the full ordering form will appear or not, the sample collection schedule should remain here and same.

Requirement No 4



a. Monitored drugs, Present drug regime, date started, Last dose administered should autopopulate from the current visit.
b. Sample collected date and time should be editable.
c. Add schedule option,that should be editable. User can add schedule details that belongs to either schedule 1 or schedule 2 etc
d. Requirement is to add plus button ,so that user can add details for another schedule
e. Save button should store all values into patient's TDM record.



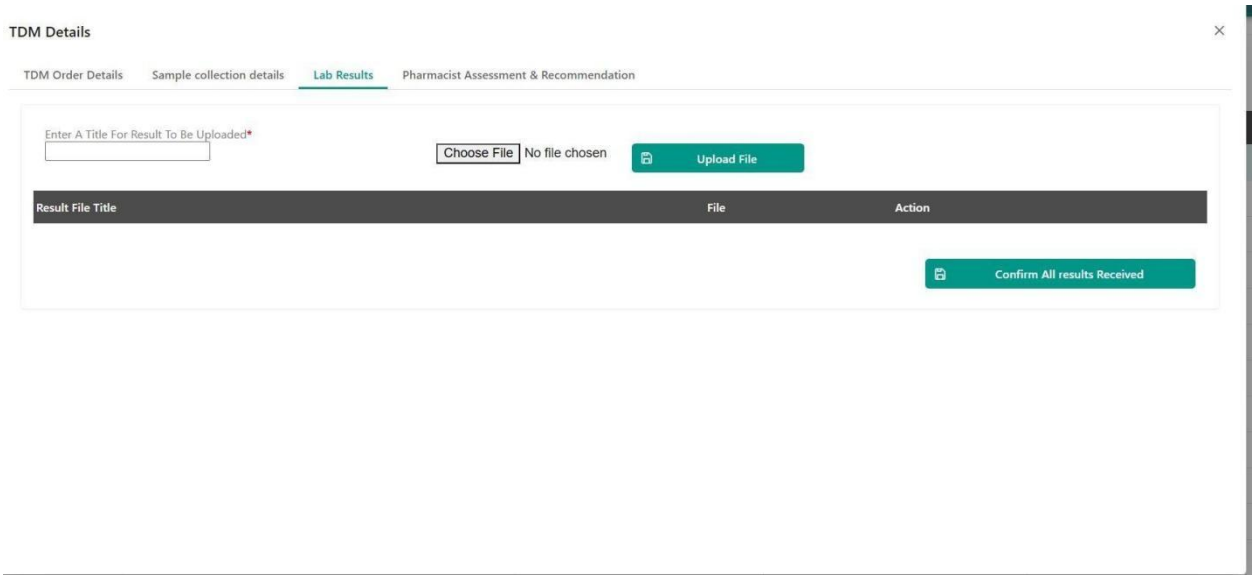
Requirement NO 05:

Lab Result

Currently, the Lab Results tab only supports file upload. Please add structured fields to capture actual lab values and interpretation.

Requirements:

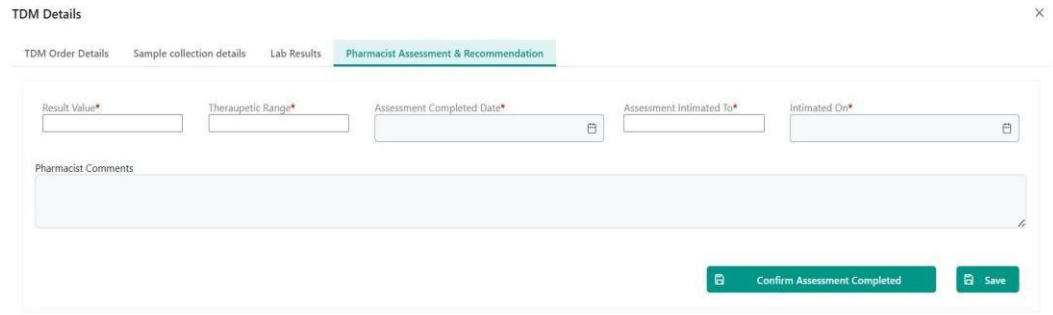
1. Add numeric field **Result Value** (e.g., Vancomycin: 18 µg/mL).
2. Add dropdown/preset field **Therapeutic Range** (linked to monitored drug, e.g., Vancomycin 10–20 µg/mL).
3. Auto-populate **Sample Date & Time** from Sample Collection tab.
4. Add text field **Lab Technician / Analyst** (manual entry or auto-fill from LIS).
5. Add free text field **Remarks / Interpretation** (e.g., “Within therapeutic range”).
6. Include **Save & Verify** button for lab staff; ensure audit trail records who entered and verified results.
7. Keep existing file upload function for attaching official lab reports.



Expected Output:

a. Lab Results tab shows drug level, therapeutic range (can be auto populate) and remarks.
b. Clinicians can view but not edit lab values.
c. Audit trail records lab staff actions

Pharmacies assessment and Recommendation



Please enhance the **Pharmacist Assessment & Recommendation** tab to include additional fields for clinical decision documentation and audit trail.

Requirements:

1. Add text field **Recommended Dose Adjustment** – to record pharmacist's suggested dose change (e.g., "Reduce dose to 400 mg q12h").

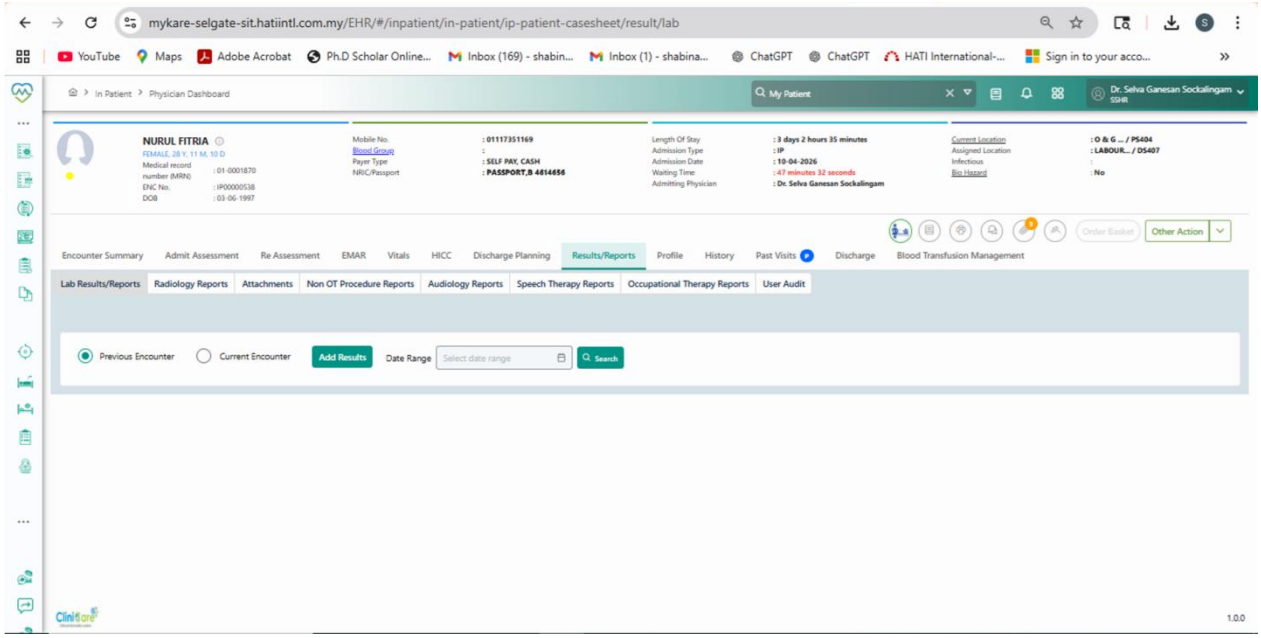
2. Add dropdown **Clinical Status** – options: Stable / improving / Deteriorating.
3. Add auto-fill field **Pharmacist Name & Designation** – retrieved from login credentials.
4. Add checkbox **Verification Completed** – must be ticked before "Confirm Assessment Completed."
5. Ensure all new fields are saved in the patient's TDM record and included in the audit trail.
6. Add editable comment option for pharmacist to write any comment.
7. This tab details after saving should flow to results.

Expected Output:

- Pharmacist can record dose adjustment, next sampling date, and patient status.
- System auto-fills pharmacist identity and requires verification before confirmation.
- Audit trail captures all actions and timestamps.
- The pharmacist assessment and Sampling results should flow in Results (clinicare > Results) to view by the doctor.

Requirement No 6

Pharmacist assessment and lab results should reflect in Clinicare >In Patients/Out patients > Results.



a. Following changes are required in the result tab. Add tab for TDM results

b. Add drug name , Sampling Results , Pharmacist Comment , Print

- For Sampling results hyperlink need to be created with lab results, enabling doc to view lab report

- For Pharmacist Comment, View option should be there, when clicking the view button, window should pop up showing pharmacist comments saved by the user. (CLINICAL Pharmacy > TDM > Pharmacist Assessment & Recommendations)

