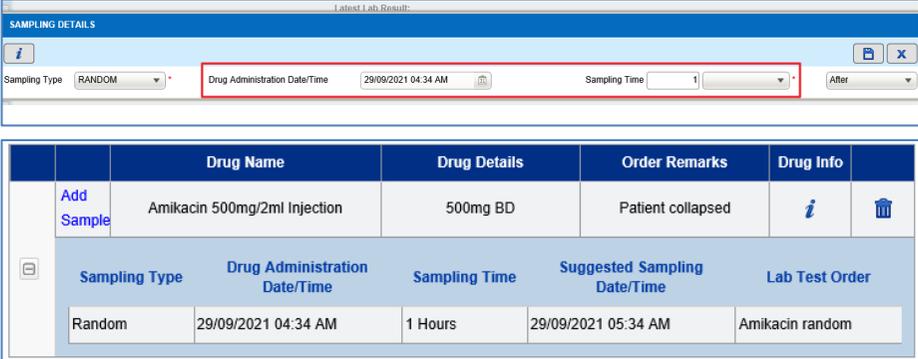
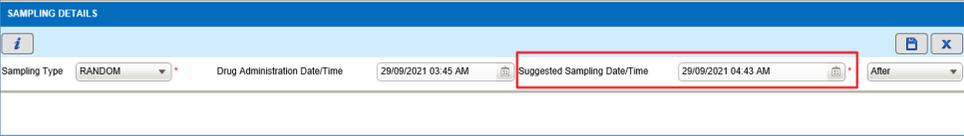
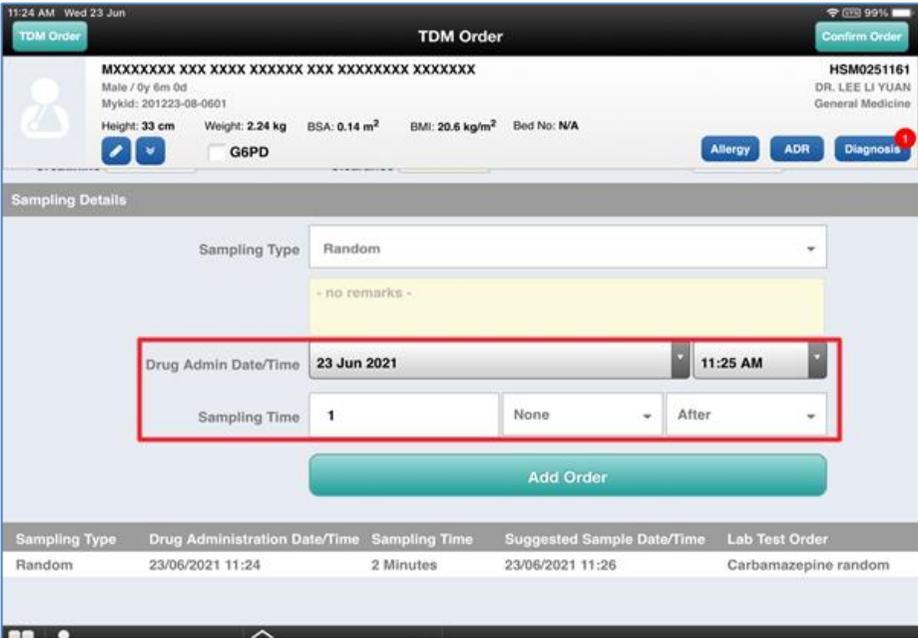
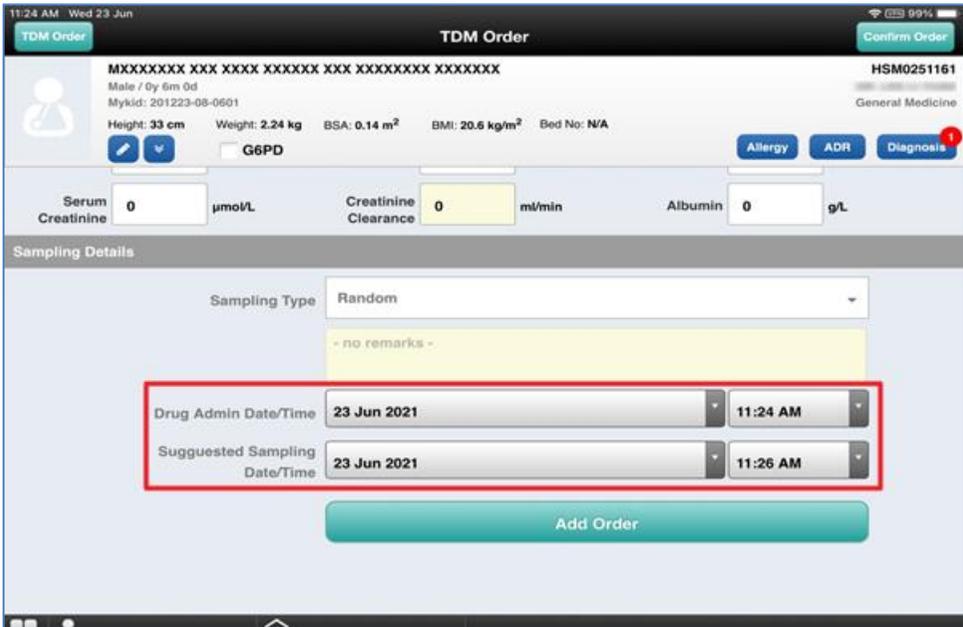


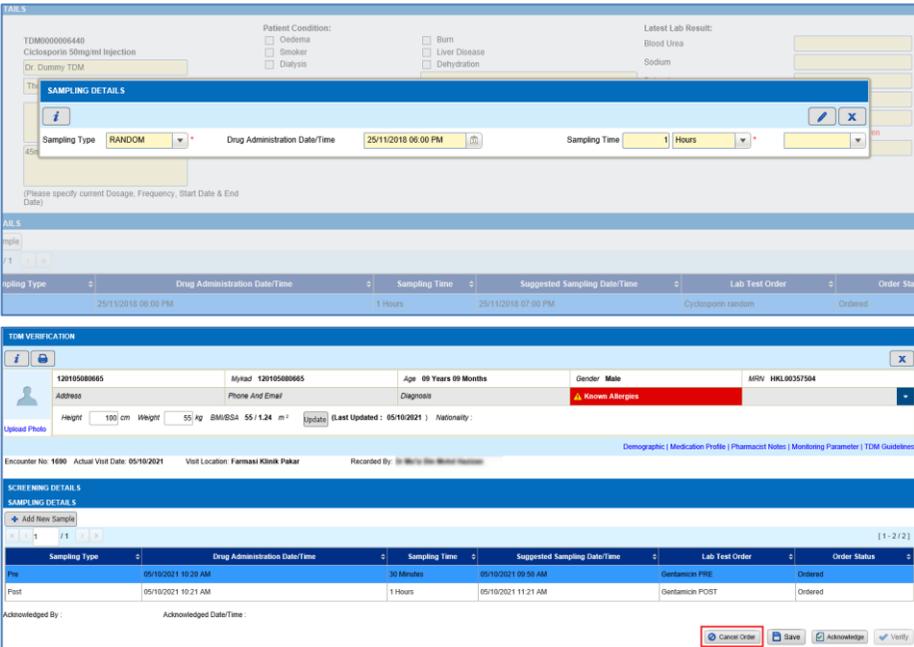
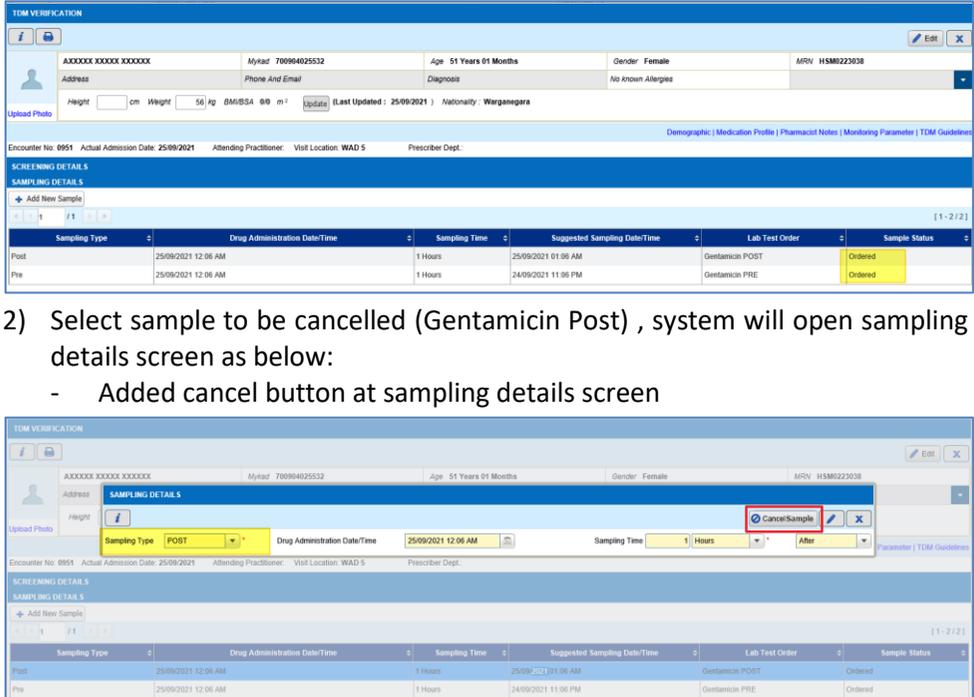
Summary of Ticket Number and Request for Therapeutic Drug Monitoring Screen

No.	Ticket #	Description	Requests	Solution
1.	200001422E	User request add date & time of sampling for External TDM Resulting Reason: Currently cannot confirm to key in which sample since some patient got several transactions for TDM	External TDM Resulting - Request add date & time of sampling	<u>TDM Order</u> 1. To allow select suggested sampling date/time for Random sample
2.	18551081C	User request for sampling type RANDOM can key in suggested sampling time accordingly to Date and Time. Email from user: 1) RANDOM sampling time for drug like Vancomycin 1g, suppose can key in suggested sampling time accordingly to Date and Time. (not how many hours/minutes before as current setting, how many hours/minutes before is suppose PRE sample). 2) Paracetamols drug administration date/time in certain cases are unsure (eg: suicidal cases with no witness or for screening purpose due to liver profile deranged), hence, suggest to add one more selection unknown in column of Drug Administration Date/Time.)	Project Team agreed: 1) For Random to use 'Suggested sampling date/time' 2) Rejected for request no 2	<u>TDM Verification</u> 1. To allow cancel 1 sample only instead of the whole order <u>TDM Sample Management</u> 1. To allow reject 1 sample only instead of the whole order <u>External TDM Resulting</u> Request add date & time of sampling (To capture data from Sample Management Screen)
3.	I- PHIS051383119S	<u>TDM Verification - Request enable to cancel sample</u> User request enable to cancel sample. User acknowledge able to cancel order but sometimes need to cancel 1 sample only instead of the whole order.	Request enable to cancel 1 sample only instead of the whole order	
4.	200001122E	In TDM sample rejection part, the system will reject both samples (e.g pre and post samples) at the same time even there is only one sample is required to be rejected. And when there is only one sample is	Request enable to reject 1 sample only instead of the whole order	

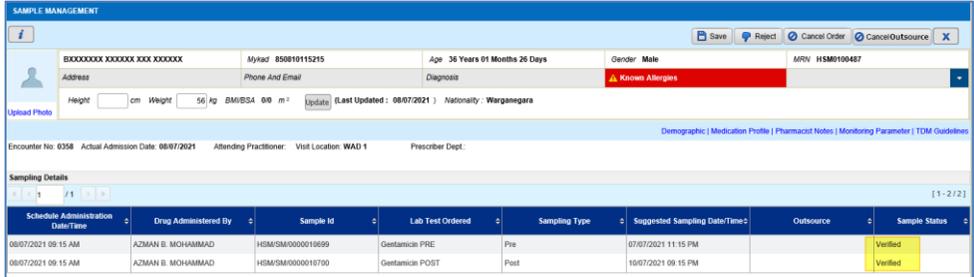
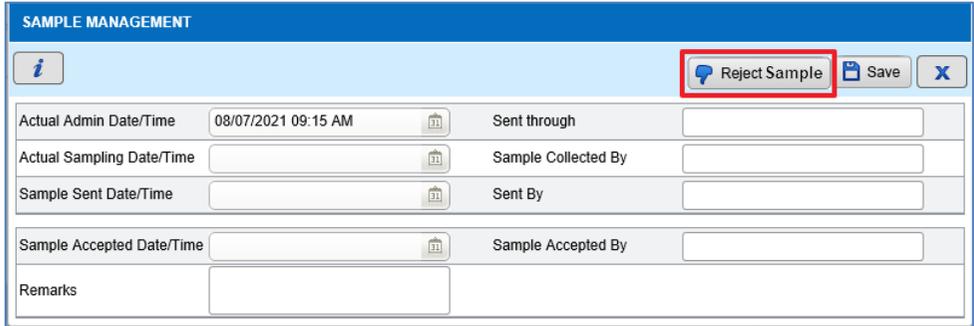
		rejected, then it is unable to proceed to TDM reporting. Therefore we suggest that The TDM reporting shall be proceeded when we only reject one sample in the system, and it will not be proceeded to TDM reporting if BOTH samples are rejected.		
5.	200003731E	At TDM reporting screen, there is 2 save button. Request to rename the Top save button to Save report, whereas maintain the bottom save button at TDM reporting screen as in the attachment.	To rename the Top save button to 'Save Report'	
6.	200001147E	For sample analysis reject reasons, suggest to add on 'Other reason' in the reason selection list, (with specification reason stated) Example: Others: Sample analysis rejected due to gentamicin was stopped, no TDM required. (please specify) User request to add others option in sample rejection screen with space to enter why the sample has been rejected.	To add column to type for reject reason	
7.	I- PHIS045357418S	Request: request to change transcribed by to ordered by or prescribed by. As the name of prescribers (Doctors) appear at the column transcribed by, but the task of transcribing tdm order was performed by pharmacist instead of doctors. Request to rephrase the term.	Request to change transcribed by to ordered by or prescribed by.	

Function Flow	Therapeutic Drug Monitoring Screen in current Version 2.4	Therapeutic Drug Monitoring Screen in new Version 2.5																																																		
<p>1. TDM Order Screen</p>	<p>Order Management → Medication Order/ Record Prescription → TDM Order</p> <p>Current version, if select Random sample, user need to select ‘Drug Administration Date/Time’ and ‘Sampling Time’, system will calculate the suggested sampling date/time</p> <p>TDM order screen in web:</p>  <table border="1"> <thead> <tr> <th></th> <th>Drug Name</th> <th>Drug Details</th> <th>Order Remarks</th> <th>Drug Info</th> </tr> </thead> <tbody> <tr> <td>Add Sample</td> <td>Amikacin 500mg/2ml Injection</td> <td>500mg BD</td> <td>Patient collapsed</td> <td> </td> </tr> <tr> <td></td> <td>Sampling Type</td> <td>Drug Administration Date/Time</td> <td>Sampling Time</td> <td>Suggested Sampling Date/Time</td> </tr> <tr> <td></td> <td>Random</td> <td>29/09/2021 04:34 AM</td> <td>1 Hours</td> <td>29/09/2021 05:34 AM</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Amikacin random</td> </tr> </tbody> </table>		Drug Name	Drug Details	Order Remarks	Drug Info	Add Sample	Amikacin 500mg/2ml Injection	500mg BD	Patient collapsed			Sampling Type	Drug Administration Date/Time	Sampling Time	Suggested Sampling Date/Time		Random	29/09/2021 04:34 AM	1 Hours	29/09/2021 05:34 AM					Amikacin random	<p>Order Management → Medication Order/ Record Prescription → TDM Order</p> <p>New version, user can directly select ‘Suggested sampling date/time’ for Random sample</p> <ol style="list-style-type: none"> Open TDM order screen Fill in Drug details information (Indication for Request, TDM Drug, Order Remarks and Drug Details) Click on  button Click on  at the drug details table Select sampling type = Random Suggested Sampling Date/Time field will appear, user can select date and time of suggested sampling Fill in all required information and click on save button  <p>8. Sampling details will be updated at the table as below (Click on expand function to display the record)</p>  <table border="1"> <thead> <tr> <th></th> <th>Drug Name</th> <th>Drug Details</th> <th>Order Remarks</th> <th>Drug Info</th> </tr> </thead> <tbody> <tr> <td>Add Sample</td> <td>Amikacin 500mg/2ml Injection</td> <td>500mg BD</td> <td>patient collapsed</td> <td> </td> </tr> <tr> <td></td> <td>Sampling Type</td> <td>Drug Administration Date/Time</td> <td>Sampling Time</td> <td>Suggested Sampling Date/Time</td> </tr> <tr> <td></td> <td>Random</td> <td>29/09/2021 03:45 AM</td> <td>58 Minutes</td> <td>29/09/2021 04:43 AM</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Amikacin random</td> </tr> </tbody> </table>		Drug Name	Drug Details	Order Remarks	Drug Info	Add Sample	Amikacin 500mg/2ml Injection	500mg BD	patient collapsed			Sampling Type	Drug Administration Date/Time	Sampling Time	Suggested Sampling Date/Time		Random	29/09/2021 03:45 AM	58 Minutes	29/09/2021 04:43 AM					Amikacin random
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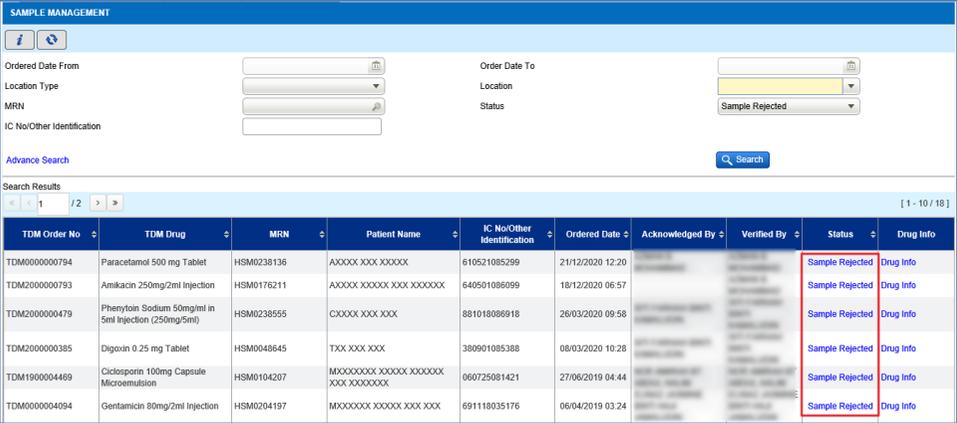
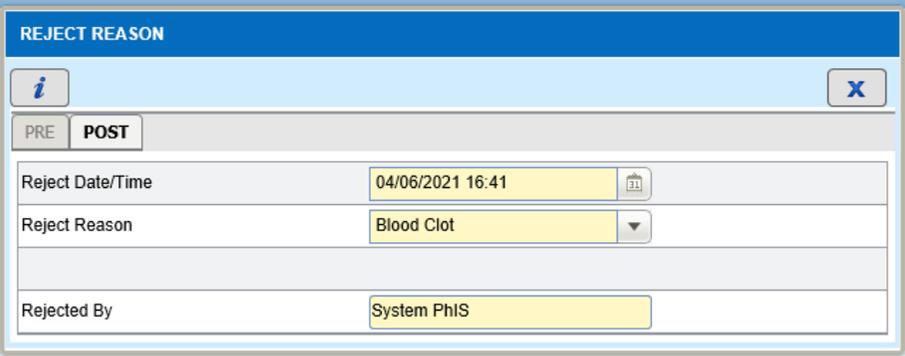
Function Flow	Therapeutic Drug Monitoring Screen in current Version 2.4	Therapeutic Drug Monitoring Screen in new Version 2.5										
<p>2. TDM Order (Mobile)</p>	<p>Mobile Application → Order Management → TDM Order</p> <p>Current version, if select Random sample, user need to select ‘Drug Administration Date/Time’ and ‘Sampling Time’, system will calculate the suggested sampling date/time</p>  <table border="1"> <thead> <tr> <th>Sampling Type</th> <th>Drug Administration Date/Time</th> <th>Sampling Time</th> <th>Suggested Sample Date/Time</th> <th>Lab Test Order</th> </tr> </thead> <tbody> <tr> <td>Random</td> <td>23/06/2021 11:24</td> <td>2 Minutes</td> <td>23/06/2021 11:26</td> <td>Carbamazepine random</td> </tr> </tbody> </table>	Sampling Type	Drug Administration Date/Time	Sampling Time	Suggested Sample Date/Time	Lab Test Order	Random	23/06/2021 11:24	2 Minutes	23/06/2021 11:26	Carbamazepine random	<p>Mobile Application → Order Management → TDM Order</p> <p>New version, user can directly select ‘Suggested sampling date/time’ for Random sample</p> <ol style="list-style-type: none"> 1. Open TDM order screen in mobile application 2. Fill in drug details information 3. At sampling details section, select sampling type = Random 4. Suggested Sampling Date/Time field will appear, user can select date and time of suggested sampling 5. Fill in all required information and click on Add order button 
Sampling Type	Drug Administration Date/Time	Sampling Time	Suggested Sample Date/Time	Lab Test Order								
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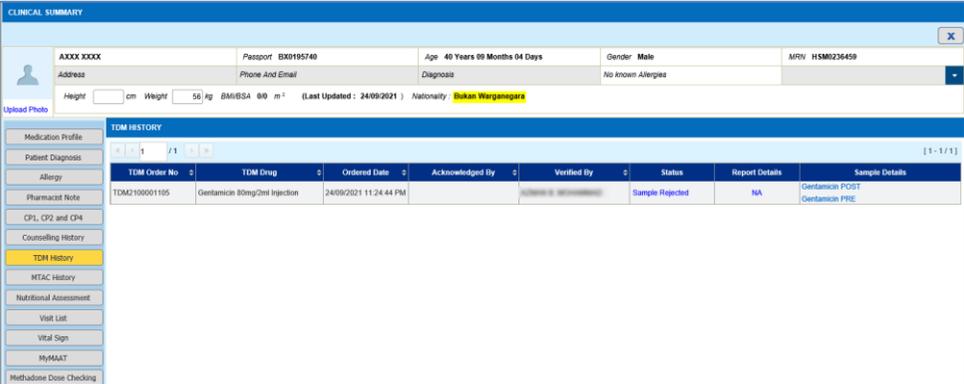
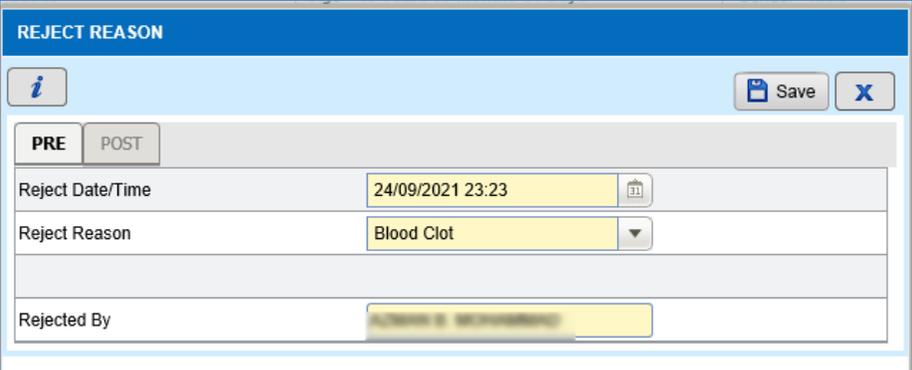
Function Flow	Therapeutic Drug Monitoring Screen in current Version 2.4	Therapeutic Drug Monitoring Screen in new Version 2.5
<p>3. TDM Verification (Cancel Sample)</p>	<p>Pharmacy Transaction → Clinical → TDM → TDM Verification</p> <p>Current version, there is no function to cancel by sample. User can only cancel by order</p> 	<p>Pharmacy Transaction → Clinical → TDM → TDM Verification</p> <p>New version, user is allowed to cancel by sample instead of cancel the whole order</p> <p>Step:</p> <ol style="list-style-type: none"> 1) Open TDM Verification screen, select record with multiple sample e.g: This order have 2 samples, Gentamicin Pre & Gentamicin Post 2) Select sample to be cancelled (Gentamicin Post), system will open sampling details screen as below: <ul style="list-style-type: none"> - Added cancel button at sampling details screen 3) Click on 'cancel sample' button shall update the 'Sample Status' = cancelled 4) Another sample (Gentamicin Pre) shall available to be proceed with acknowledge and verification 

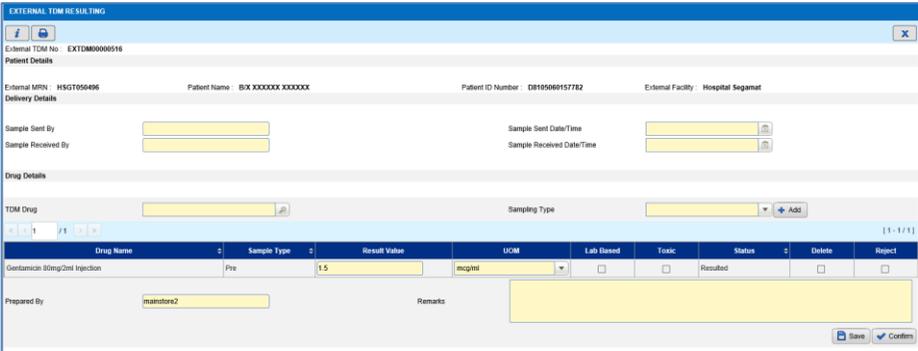
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Function Flow	Therapeutic Drug Monitoring Screen in current Version 2.4	Therapeutic Drug Monitoring Screen in new Version 2.5
<p>4. TDM Sample Management (Reject Sample)</p>	<p>Pharmacy Transaction → Clinical → TDM → TDM Sample Management</p> <p>Current version, there is no function to reject by sample. User can only reject by order</p>	<p>Pharmacy Transaction → Clinical → TDM → TDM Sample Management</p> <p>New version, user is allowed to reject by sample instead of reject the whole order</p> <p>Step:</p> <ol style="list-style-type: none"> 1) Open TDM Sample Management screen, select record with multiple sample e.g: This order have 2 samples, Gentamicin Pre & Gentamicin Post  <ol style="list-style-type: none"> 2) Select sample to be rejected (Gentamicin Post), system will open sampling details screen as below: <ul style="list-style-type: none"> - Added reject button at sampling details screen  <ol style="list-style-type: none"> 3) Click on 'Reject sample' button, another screen will appear to fill in the reject reason

Function Flow	Therapeutic Drug Monitoring Screen in current Version 2.4	Therapeutic Drug Monitoring Screen in new Version 2.5																								
		<div> </div> <ul style="list-style-type: none"> - Fill in the reject date/time and select reject reason based on the drop down field - Click on save button and rejected by field will be updated based on user login id <p>4) Sample will be updated as 'Rejected'</p> <p>5) Another sample (Gentamicin Pre) shall available to be proceed with sampling and reporting</p> <div> <table border="1"> <thead> <tr> <th>Schedule Administration Date/Time</th> <th>Drug Administered By</th> <th>Sample ID</th> <th>Lab Test Ordered</th> <th>Sampling Type</th> <th>Suggested Sampling Date/Time</th> <th>Outsource</th> <th>Sample Status</th> </tr> </thead> <tbody> <tr> <td>08/07/2021 09:15 AM</td> <td>AZMAN B. MOHAMMAD</td> <td>HSM/SM/0000010699</td> <td>Gentamicin PRE</td> <td>Pre</td> <td>07/07/2021 11:15 PM</td> <td></td> <td>Verified</td> </tr> <tr> <td>08/07/2021 09:15 AM</td> <td>AZMAN B. MOHAMMAD</td> <td>HSM/SM/0000010700</td> <td>Gentamicin POST</td> <td>Post</td> <td>10/07/2021 09:15 PM</td> <td></td> <td>Sample Rejected</td> </tr> </tbody> </table> </div> <p>6) If both sample is rejected, to display both reason in the listing 'Sample Management' and 'Clinical Summary' screen as below:</p>	Schedule Administration Date/Time	Drug Administered By	Sample ID	Lab Test Ordered	Sampling Type	Suggested Sampling Date/Time	Outsource	Sample Status	08/07/2021 09:15 AM	AZMAN B. MOHAMMAD	HSM/SM/0000010699	Gentamicin PRE	Pre	07/07/2021 11:15 PM		Verified	08/07/2021 09:15 AM	AZMAN B. MOHAMMAD	HSM/SM/0000010700	Gentamicin POST	Post	10/07/2021 09:15 PM		Sample Rejected
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Function Flow	Therapeutic Drug Monitoring Screen in current Version 2.4	Therapeutic Drug Monitoring Screen in new Version 2.5
		<p>Sample Management listing screen:</p>  <p>Click on 'Sample Rejected' hyperlink shall display as below:</p>  <p>There will be two tab to display both reject reason</p>

Function Flow	Therapeutic Drug Monitoring Screen in current Version 2.4	Therapeutic Drug Monitoring Screen in new Version 2.5
		<p>Clinical Summary:</p>  <p>- Click on 'Sample Rejected' hyperlink shall display as below:</p>  <p>- There will be two tab to display both reject reason</p>

Function Flow	External TDM Reporting in current Version 2.4	External TDM Reporting in new Version 2.5
<p>5. External TDM Reporting</p>	<p>Pharmacy Transaction → Clinical → TDM → External TDM</p> <p>Current version, there is no date & time of sampling display in the screen</p> <p>Current screen as below:</p> 	<p>Pharmacy Transaction → Clinical → TDM → External TDM</p> <ul style="list-style-type: none"> - New version screen has been enhanced as below: - Added new column for 'Actual Sampling Date/Time' - This date is capture from 'Actual Sampling Date/Time' at sample management screen during Outsource sample 