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Data Compliance Test (DCT)

Test Cases for

LABMB Record

*<HCP Name>*

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# Testing Instructions to HCPs

## Self-Service Testing Phase

* After development of the data upload programmes, you can use the **Self-Service test accounts and test HCRs** provided by eHealth for connection to the eHealth testing environment and proceed with the self-service testing.
* You can proceed with the Self-service test at your own pace by following this Self-Service Testing Guide and using the test cases provided in section 2.
* You can verify the **correctness** and **completeness** of the data upload by:
* checking the interface files / messages generated in your system against the sample expected results of interface files /messages for all test cases as provided;
* checking the results on eHR Viewer (EVE) by logging into the testing eHealth with the provided test account; and
* checking the upload status through Process Summary and Exception Report in eHR Inbox by logging into the testing eHealth.
* For data fields requiring eHR Codex values, you can refer the Code Sets provided with the Self-Service Kit.
* For details of technical requirements of the data interface files, please refer to the ‘Developer Quick Guide for LABMB Data Upload to eHealth.docx’.
* You are required to perform the test cases that are relevant to the data compliance level (Level 2, 3.1 or 3.2) supported by your clinic.
* You are required to perform the first batch of data upload by **Data Materialization** (**DM**) mode. **DM mode** is denoted in the interface by a fixed value **BL-M** in *HL7 OBX.4*
* You should use **Incremental Load** (**INC**) mode for the second batch of data upload to update the previously uploaded records. **INC mode** is denoted in the interface by a fixed value **BL** in *HL7 OBX.4.*
* Since the **DM** mode would replace the corresponding records previously uploaded to eHealth, you may repeat your testing unlimited number of times by uploading the first batch by **DM** mode.
* When all required test cases can be completed smoothly and correctly in this phase, you can proceed to the Final Testing Phase and submit **production environment setup form** to eHR DCT Support for preparation.

## Final Testing Phase

* You can start the Final Testing Phase once all test cases in the Self-Service Testing phase are passed.
* You should start Final Test by executing the test cases provided in section 2 with **Final Testing HCRs** provided by eHR DCT Support.
* You can verify the **correctness** and **completeness** of testing results by checking results in eHR Viewer (EVE) and the upload status through Process Summary and Exception Report in eHR Inbox.
* For LABMB DCT test cases, there are **TWO** batches of data files / transactions to be uploaded to the testing eHealth. The required records must be correctly uploaded from these 2 consecutive batches respectively.
* The Final Test will be considered PASSED if all the following criteria are met:
* The **TWO** batches of test data files are uploaded consecutively in the correct sequence. The second batch of data files/transactions must be submitted after completion of processing of the first batch by eHealth
* No additional data files / transactions are uploaded in between or after the uploads of the above two batches of data files / transactions to amend any records.
* No exception records are reported from the uploads.
* No manual interventions have been made to the data files / transactions.
* If the Final Test failed, you can re-attempt the Self-Service Test and Final Test until a successful run can be completed.

## Preparation DCT Test Report

* Once you have successfully passed the Final Test based on the above criteria, you should complete this document by attaching the below items to this document at the appropriate space provided:
  + Actual data files uploaded
  + Screen-shot of each test case
* You are required to submit this completed ‘DCT Test Cases’ document to eHR DCT Support for further processing. eHR DCT Support will provide feedback **within 10 working days**.

# Test Case Details

* *LABMB-LV3-001 and LABMB-LV3-002 : Only applicable for testing level 3 data upload*
* *LABMB-LV2-001 and LABMB-LV2-002 : Only applicable for testing level 2 data upload*
* *LABMB-LV1-001 and LABMB-LV1-002 : Only applicable for testing level 1 data upload*
* *Please complete and collect the upload results for LABMB-xxx-001 before proceeding to LABMB-xxx-002.*

| **1** | **Test Case ID** | LABMB-LV3-001 [FOR LEVEL 3 DATA UPLOAD ONLY] |
| --- | --- | --- |
|  | **Function Description** | HCP received sharing consents from testing HCRs, then perform the first data upload of HCRs’ clinical records to eHealth by DM Mode for Level 3 data. |
| **Subsequent case of** | N/A |
| **Testing Assumption** | * HCR1-HCR4 have already given sharing consents to the HCP. * The eMR system contains LABMB records of these HCRs and will upload all the LABMB records of <HCR1> - <HCR4> to eHealth in Batch 1 data files created by DM mode. |
| **Test Actions** | HCP creates below LABMB records in the Laboratory Information System (LIS): |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 1a | **Case scenario**: Register the lab test service request of urine microscopy in LIS for <HCR1>. The registered lab test is standardised (mapped with LOINC code). Upload the lab record when the result is ready as follows:  Expected data contents for Level 3 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = UR\_MIC * Panel local description = Urine Microscopy Examination   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = F * Laboratory report status description = Final report * Laboratory report status local description = Original report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type – recognized terminology name = HKCTT * Specimen type identifier – recognized terminology = 5700211 * Specimen type description – recognized terminology = Midstream urine * Specimen type local code = MSU * Specimen type local description = Midstream urine * Specimen collection datetime = 01-Aug-2024 10:00:00 * Specimen arrival datetime = 01-Aug-2024 12:00:00   Microbiology Culture Test Result data  Microbiology Culture Test Result 1   * Microbiology Culture Test - recognised terminology name = LOINC * Microbiology Culture Test identifier - recognised terminology = 12235-8 * Microbiology Culture Test description - recognised terminology = Microscopic observation [Identifier] in Urine sediment by Light microscopy * Microbiology Culture Test local code = UR\_MIC * Microbiology Culture Test local description = Urine Microscopy : * Laboratory Test Result Type = 3 * Laboratory test reportable result = Moderate numbers of WBC seen; A few epithelial cells seen * Organism and susceptibility test result indicator = 0   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * Laboratory report date = 02-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 3 data validation 3. The record should be displayed under “Microbiology & Virology” 4. The Profile Description should display “Midstream urine/Urine Microscopy Examination” 5. The Laboratory structure data will be shown in the eHR Viewer (EVE)    1. At Laboratory Cumulative Result(s):       1. The lab test is mapped with valid LOINC codes & descriptions. The test result 1 will be shown with their corresponding eHR test name (Level 3 data)  |  |  | | --- | --- | | eHR Description | Test Result | | Urine sediment microscopy | Moderate numbers of WBC seen; A few epithelial cells seen |  * 1. At Laboratory Details:      1. The lab test result 1 will be shown with its local test name (Level 2 data)  |  |  | | --- | --- | | Local Test Name | Test Result | | Urine Microscopy: | Moderate numbers of WBC seen; A few epithelial cells seen |  1. HCP uploaded one report image in PDF format and will be shown in the eHR Viewer (EVE)    1. PDF report content matched with the structured data |
| 1b | **Case scenario**: Register the lab test service request of urine microscopy & urine culture test in LIS for <HCR2>. All registered lab tests are standardised (mapped with LOINC code). Upload the lab record when the results are ready as follows:  Expected data contents for Level 3 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = UR\_CR * Panel local description = Microbiological examination of urine specimen and Microscopy Examination   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = F * Laboratory report status description = Final report * Laboratory report status local description = Original report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type – recognized terminology name = HKCTT * Specimen type identifier – recognized terminology = 5700211 * Specimen type description – recognized terminology = Midstream urine * Specimen type local code = MSU * Specimen type local description = Midstream urine * Specimen collection datetime = 01-Aug-2024 10:00:00 * Specimen arrival datetime = 01-Aug-2024 12:00:00   Microbiology Culture Test Result data  Microbiology Culture Test Result 1   * Microbiology Culture Test - recognised terminology name = LOINC * Microbiology Culture Test identifier - recognised terminology = 12235-8 * Microbiology Culture Test description - recognised terminology = Microscopic observation [Identifier] in Urine sediment by Light microscopy * Microbiology Culture Test local code = UR\_MIC * Microbiology Culture Test local description = Urine Microscopy: * Laboratory Test Result Type = 3 * Laboratory test reportable result = Nothing Abnormal Seen * Organism and susceptibility test result indicator = 0   Microbiology Culture Test Result 2   * Microbiology Culture Test - recognised terminology name = LOINC * Microbiology Culture Test identifier - recognised terminology = 630-4 * Microbiology Culture Test description - recognised terminology = Bacteria identified in Urine by Culture * Microbiology Culture Test local code = UR\_ORG * Microbiology Culture Test local description = Urine culture : * Laboratory Test Result Type = 3 * Laboratory test reportable result = Streptococcus agalactiae (Group-B) * Organism and susceptibility test result indicator = 1 * Organism key = C&ST|UR\_ORG|1|1   Organism and Susceptibility Test Result  Organism and Susceptibility Test Result 1   * Organism key = C&ST|UR\_ORG|1|1 * Organism growth description text result = >100,000 CFU/ml * Organism - recognised terminology name = HKCTT * Organism identifier - recognised terminology = 5000454 * Organism description - recognised terminology = Streptococcus agalactiae * Organism local code = 32597 * Organism local description = Streptococcus agalactiae (Group-B) * Microbiology Culture Test local code = UR\_ORG * Susceptibility test and related property - recognised terminology name = LOINC * Susceptibility test and related property identifier - recognised terminology = 18928-2 * Susceptibility test and related property description - recognised terminology = Gentamicin [Susceptibility] * Susceptibility test and related property local code = 22540 * Susceptibility test and related property local description = Gentamicin * Susceptibility test and related property result code = S * Susceptibility test and related property result description = Sensitive * Susceptibility test and related property result local description = Sensitive   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * Laboratory report date = 03-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 3 data validation 3. The record should be displayed under “Microbiology & Virology” 4. The Profile Description should display “Microbiological examination of urine specimen and Microscopy Examination” 5. The Laboratory structure data will be shown in the eHR Viewer (EVE)    1. At Laboratory Cumulative Result(s):       1. The lab tests are mapped with valid LOINC codes & descriptions. All test results will be shown with their corresponding eHR test name (Level 3 data)  |  |  | | --- | --- | | eHR Description | Test Result | | Urine sediment microscopy | Nothing Abnormal Seen | | Bacteria, Urine, Culture | Streptococcus agalactiae (Group B) |  * 1. At Laboratory Details:      1. All lab test results will be shown with their local test name (Level 2 data)  |  |  | | --- | --- | | Local Test Name | Test Result | | Urine Microscopy: | Nothing Abnormal Seen | | Organism 1: Streptococcus agalactiae (Group-B) | >100,000 CFU/ml | | * Gentamicin | Sensitive |  1. HCP uploaded one report image in PDF format and will be shown in the eHR Viewer (EVE)    1. PDF report content matched with the structured data |
| 1c | **Case scenario**: Register the lab test service request of pus culture test in LIS for <HCR3>. The registered lab test is standardised (mapped with LOINC code). Upload the lab record when the result is ready as follows:  Expected data contents for Level 3 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = MIS\_CU * Panel local description = Microbiological examination of miscellaneous specimen   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = F * Laboratory report status description = Final report * Laboratory report status local description = Original report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type – recognized terminology name = HKCTT * Specimen type identifier – recognized terminology = 5700261 * Specimen type description – recognized terminology = Pus * Specimen type local code = PUS * Specimen type local description = Pus * Specimen collection datetime = 01-Aug-2024 10:00:00 * Specimen arrival datetime = 01-Aug-2024 12:00:00   Microbiology Culture Test Result data  Microbiology Culture Test Result 1   * Microbiology Culture Test - recognised terminology name = LOINC * Microbiology Culture Test identifier - recognised terminology = 6463-4 * Microbiology Culture Test description - recognised terminology = Bacteria identified in Specimen by Culture * Microbiology Culture Test local code = MIS\_ORG * Microbiology Culture Test local description = Miscellaneous culture : * Laboratory Test Result Type = 3 * Laboratory test reportable result = Bacteroides spp. * Organism key = C&ST|MIS\_ORG|1|1 * Organism and susceptibility test result indicator = 1   Organism and Susceptibility Test Result  Organism and Susceptibility Test Result 1   * Organism key = C&ST|MIS\_ORG|1|1 * Organism growth description text result = Heavy growth * Organism - recognised terminology name = HKCTT * Organism identifier - recognised terminology = 5001322 * Organism description - recognised terminology = Genus Bacteroides * Organism local code = 32597 * Organism local description = Bacteroides spp. * Microbiology Culture Test local code = MIS\_ORG   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * Laboratory report date = 03-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 3 data validation 3. The record should be displayed under “Microbiology & Virology” 4. The Profile Description should display “Microbiological examination of miscellaneous specimen” 5. The Laboratory structure data will be shown in the eHR Viewer (EVE)    1. At Laboratory Cumulative Result(s):       1. The lab test is mapped with valid LOINC codes & descriptions. The test result 1 will be shown with their corresponding eHR test name (Level 3 data)  |  |  | | --- | --- | | eHR Description | Test Result | | Bacteria, Miscellaneous culture | Bacteroides species |  * 1. At Laboratory Details:      1. The lab test result 1 will be shown with its local test name (Level 2 data)  |  |  | | --- | --- | | Local Test Name | Test Result | | Organism 1: Bacteroides spp. | Heavy growth |  1. HCP uploaded one report image in PDF format and will be shown in the eHR Viewer (EVE)    1. PDF report content matched with the structured data |
| 1d | **Case scenario**: Register the lab test service request of body fluid cell count test in LIS for <HCR4>. The registered lab test is standardised (mapped with LOINC code). Upload the lab record when the result is ready as follows:  Expected data contents for Level 3 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = CC * Panel local description = Cell count examination   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = F * Laboratory report status description = Final report * Laboratory report status local description = Original report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type – recognized terminology name = HKCTT * Specimen type identifier – recognized terminology = 5700041 * Specimen type description – recognized terminology = Body fluid * Specimen type local code = BF * Specimen type local description = Body fluid * Specimen collection datetime = 01-Aug-2024 10:00:00 * Specimen arrival datetime = 01-Aug-2024 10:00:00   Microbiology Culture Test Result data  Microbiology Culture Test Result 1   * Microbiology Culture Test - recognised terminology name = LOINC * Microbiology Culture Test identifier - recognised terminology = 26466-3 * Microbiology Culture Test description - recognised terminology = Leukocytes [#/volume] in Body fluid * Microbiology Culture Test local code = BF\_WBC * Microbiology Culture Test local description = Leukocytes : * Laboratory Test Result Type = 1 * Laboratory test reportable result = 1000 * Laboratory test result unit = cells/ul * Organism and susceptibility test result indicator = 0   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * Laboratory report date = 01-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 3 data validation 3. The record should be displayed under “Microbiology & Virology” 4. The Profile Description should display “Cell count examination” 5. The Laboratory structure data will be shown in the eHR Viewer (EVE)    1. At Laboratory Cumulative Result(s):       1. The lab test is mapped with valid LOINC codes & descriptions. The test result 1 will be shown with their corresponding eHR test name (Level 3 data)  |  |  | | --- | --- | | eHR Description | Test Result | | Leukocytes, Body fluid | 1000 |  * 1. At Laboratory Details:      1. The lab test result 1 will be shown with its local test name (Level 2 data)  |  |  | | --- | --- | | Local Test Name | Test Result | | Leukocytes : | 1000 cells/ul |  1. HCP uploaded one report image in PDF format and will be shown in the eHR Viewer (EVE)    1. PDF report content matched with the structured data |
|  | **Expected eMR System Behavior** | 1. HCP’s eMR system will upload **Batch 1** data fileswith all LABMB of created in **1a-1d (Level 3 data)** by DM mode. 2. **Batch 1** data files should include below files: <[sample](#_Appendix_–_Sample)>    1. Participant List (PL)    2. Data File (DF)    3. HL7 message with signature    4. Zip File (embedded PL, DFs and HL7 message files)    5. Zip Control File (contains the filenames of PL, DFs and HL7 message) 3. eMR system uploads **Batch 1** data files (‘Zip File’ and ‘Zip Control File') to eHealth. 4. HCP verifies the data upload status by reviewing the 'Process Summary Report' and 'Exception Report' in eHR Inbox. 5. HCP verifies the completeness and correctness of data uploaded in eHR Viewer. | |
|  | **Results Verification** | * HCP verifies the interface file contents and check if the uploaded records can be properly viewed in eHR Viewer (EVE). HCP must also review if the data batches uploaded can be processed successfully or rejected through ‘Process Summary’, ‘Exception Report’ and ‘Re-grade Report’ in eHR Inbox. | |
| **Actual Result**  **(Screenshot / Attachment)** | **Data Files Uploaded:**  *<Attached the Zip file and Control file; password to unzip the file>* | |
| **Attachment/Screenshot:**  *<Attached the screen shots of records uploaded in eHR Viewers>* | |
| **Remark** | *<State your reasons/ justification for exemption with case number>* | |
| **Testing Date** | *<Provided by HCP>* | |
| **Verified By** | *<Provided by HCP>* | |

| **2** | **Test Case ID** | LABMB-LV3-002 [FOR LEVEL 3 DATA UPLOAD ONLY] | |
| --- | --- | --- | --- |
|  | **Function Description** | There are subsequent changes in HCRs’ clinical records in Batch 1 data upload. HCP uploads incremental changes to eHealth by INC Mode for Level 3 data. | |
| **Subsequent cases of** | LABMB-LV3-001 | |
| **Testing Assumption** | HCP has already verified that Batch 1 data have been processed successfully with correct test results. | |
| **Test Actions** | HCP updates LABMB records from Batch 1 in eMR system as follows: | |
| 2a | **Case scenario**: Add the new lab test service request of urine culture in LIS for <HCR1> of scenario 1a. The registered lab test is standardised (mapped with LOINC code). Upload the lab record when the newly added test results are ready as follows:  Expected data contents for Level 3 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * **(Updated)** Panel local code = UR\_CR * **(Updated)** Panel local description = Microbiological examination of urine specimen and Microscopy Examination   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = F * Laboratory report status description = Final report * Laboratory report status local description = Original report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type – recognized terminology name = HKCTT * Specimen type identifier – recognized terminology = 5700211 * Specimen type description – recognized terminology = Midstream urine * Specimen type local code = MSU * Specimen type local description = Midstream urine * Specimen collection datetime = 01-Aug-2024 10:00:00 * Specimen arrival datetime = 01-Aug-2024 12:00:00   Microbiology Culture Test Result data  Microbiology Culture Test Result 1   * Microbiology Culture Test - recognised terminology name = LOINC * Microbiology Culture Test identifier - recognised terminology = 12235-8 * Microbiology Culture Test description - recognised terminology = Microscopic observation [Identifier] in Urine sediment by Light microscopy * Microbiology Culture Test local code = UR\_MIC * Microbiology Culture Test local description = Urine Microscopy: * Laboratory Test Result Type = 3 * Laboratory test reportable result = Moderate numbers of WBC seen; A few epithelial cells seen * Organism and susceptibility test result indicator = 0   **(Added)** Microbiology Culture Test Result 2   * Microbiology Culture Test - recognised terminology name = LOINC * Microbiology Culture Test identifier - recognised terminology = 630-4 * Microbiology Culture Test description - recognised terminology = Bacteria identified in Urine by Culture * Microbiology Culture Test local code = UR\_ORG * Microbiology Culture Test local description = Urine culture : * Laboratory Test Result Type = 3 * Laboratory test reportable result = Klebsiella pneumoniae complex * Organism and susceptibility test result indicator = 1 * Organism key = C&ST|UR\_ORG|1|1   **(Added)** Microbiology Culture Test Result 3   * Microbiology Culture Test - recognised terminology name = LOINC * Microbiology Culture Test identifier - recognised terminology = 630-4 * Microbiology Culture Test description - recognised terminology = Bacteria identified in Urine by Culture * Microbiology Culture Test local code = UR\_ORG * Microbiology Culture Test local description = Urine culture : * Laboratory Test Result Type = 3 * Laboratory test reportable result = Pseudomonas aeruginosa * Organism and susceptibility test result indicator = 1 * Organism key = C&ST|UR\_ORG|2|1   **(Added)** Organism and Susceptibility Test Result  **(Added)** Organism and Susceptibility Test Result 1   * Organism key = C&ST|UR\_ORG|1|1 * Organism - recognised terminology name = HKCTT * Organism identifier - recognised terminology = 5003429 * Organism description - recognised terminology = Klebsiella pneumoniae complex * Organism local code = 32597 * Organism local description = Klebsiella pneumoniae complex * Organism growth description text result = >100,000 CFU/ml * Microbiology Culture Test local code = UR\_ORG * Susceptibility test and related property - recognised terminology name = LOINC * Susceptibility test and related property identifier - recognised terminology = 18862-3 * Susceptibility test and related property description - recognised terminology = Amoxicillin+Clavulanate [Susceptibility] * Susceptibility test and related property local code = 22494 * Susceptibility test and related property local description = Amoxycillin/clavulanate * Susceptibility test and related property result code = S * Susceptibility test and related property result description = Sensitive * Susceptibility test and related property result local description = Sensitive   **(Added)** Organism and Susceptibility Test Result 2   * Organism key = C&ST|UR\_ORG|1|1 * Organism - recognised terminology name = HKCTT * Organism identifier - recognised terminology = 5003429 * Organism description - recognised terminology = Klebsiella pneumoniae complex * Organism local code = 32597 * Organism local description = Klebsiella pneumoniae complex * Organism growth description text result = >100,000 CFU/ml * Microbiology Culture Test local code = UR\_ORG * Susceptibility test and related property - recognised terminology name = LOINC * Susceptibility test and related property identifier - recognised terminology = 18928-2 * Susceptibility test and related property description - recognised terminology = Gentamicin [Susceptibility] * Susceptibility test and related property local code = 22540 * Susceptibility test and related property local description = Gentamicin * Susceptibility test and related property result code = S * Susceptibility test and related property result description = Sensitive * Susceptibility test and related property result local description = Sensitive   **(Added)** Organism and Susceptibility Test Result 3   * Organism key = C&ST|UR\_ORG|1|1 * Organism - recognised terminology name = HKCTT * Organism identifier - recognised terminology = 5003429 * Organism description - recognised terminology = Klebsiella pneumoniae complex * Organism local code = 32597 * Organism local description = Klebsiella pneumoniae complex * Organism growth description text result = >100,000 CFU/ml * Microbiology Culture Test local code = UR\_ORG * Susceptibility test and related property - recognised terminology name = LOINC * Susceptibility test and related property identifier - recognised terminology = 20629-2 * Susceptibility test and related property description - recognised terminology = Levofloxacin [Susceptibility] * Susceptibility test and related property local code = 23278 * Susceptibility test and related property local description = Levofloxacin * Susceptibility test and related property result code = S * Susceptibility test and related property result description = Sensitive * Susceptibility test and related property result local description = Sensitive   **(Added)** Organism and Susceptibility Test Result 4   * Organism key = C&ST|UR\_ORG|2|1 * Organism - recognised terminology name = HKCTT * Organism identifier - recognised terminology = 5000552 * Organism description - recognised terminology = Pseudomonas aeruginosa * Organism local code = 20800 * Organism local description = Pseudomonas aeruginosa * Organism growth description text result = 10,000 – 100,000 CFU/ml * Microbiology Culture Test local code = UR\_ORG * Susceptibility test and related property - recognised terminology name = LOINC * Susceptibility test and related property identifier - recognised terminology = 20629-2 * Susceptibility test and related property description - recognised terminology = Levofloxacin [Susceptibility] * Susceptibility test and related property local code = 23278 * Susceptibility test and related property local description = Levofloxacin * Susceptibility test and related property result code = S * Susceptibility test and related property result description = Sensitive * Susceptibility test and related property result local description = Sensitive   **(Added)** Organism and Susceptibility Test Result 5   * Organism key = C&ST|UR\_ORG|2|1 * Organism - recognised terminology name = HKCTT * Organism identifier - recognised terminology = 5000552 * Organism description - recognised terminology = Pseudomonas aeruginosa * Organism local code = 20800 * Organism local description = Pseudomonas aeruginosa * Organism growth description text result = 10,000 – 100,000 CFU/ml * Microbiology Culture Test local code = UR\_ORG * Susceptibility test and related property - recognised terminology name = LOINC * Susceptibility test and related property identifier - recognised terminology = 18995-1 * Susceptibility test and related property description - recognised terminology = Ticarcillin+Clavulanate [Susceptibility] * Susceptibility test and related property local code = 23280 * Susceptibility test and related property local description = Ticarcillin/clavulanate * Susceptibility test and related property result code = S * Susceptibility test and related property result description = Sensitive * Susceptibility test and related property result local description = Sensitive   **(Added)** Organism and Susceptibility Test Result 6   * Organism key = C&ST|UR\_ORG|2|1 * Organism - recognised terminology name = HKCTT * Organism identifier - recognised terminology = 5000552 * Organism description - recognised terminology = Pseudomonas aeruginosa * Organism local code = 20800 * Organism local description = Pseudomonas aeruginosa * Organism growth description text result = 10,000 – 100,000 CFU/ml * Microbiology Culture Test local code = UR\_ORG * Susceptibility test and related property - recognised terminology name = LOINC * Susceptibility test and related property identifier - recognised terminology = 18969-6 * Susceptibility test and related property description - recognised terminology = Piperacillin [Susceptibility] * Susceptibility test and related property local code = 22575 * Susceptibility test and related property local description = Piperacillin * Susceptibility test and related property result code = I * Susceptibility test and related property result description = Intermediate * Susceptibility test and related property result local description = Intermediate   **(Added)** Organism and Susceptibility Test Result 7   * Organism key = C&ST|UR\_ORG|2|1 * Organism - recognised terminology name = HKCTT * Organism identifier - recognised terminology = 5000552 * Organism description - recognised terminology = Pseudomonas aeruginosa * Organism local code = 20800 * Organism local description = Pseudomonas aeruginosa * Organism growth description text result = 10,000 – 100,000 CFU/ml * Microbiology Culture Test local code = UR\_ORG * Susceptibility test and related property - recognised terminology name = LOINC * Susceptibility test and related property identifier - recognised terminology = 18928-2 * Susceptibility test and related property description - recognised terminology = Gentamicin [Susceptibility] * Susceptibility test and related property local code = 22540 * Susceptibility test and related property local description = Gentamicin * Susceptibility test and related property result code = S * Susceptibility test and related property result description = Sensitive * Susceptibility test and related property result local description = Sensitive   **(Updated)** Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * Laboratory report date = 04-Oct-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 3 data validation 3. The record should be displayed under “Microbiology & Virology” 4. The Profile Description should display “Microbiological examination of urine specimen and Microscopy Examination” 5. The Laboratory structure data will be shown in the eHR Viewer (EVE)    1. At Laboratory Cumulative Result(s):       1. The lab tests are mapped with valid LOINC codes & descriptions. All test results will be shown with their corresponding eHR test name (Level 3 data)  |  |  | | --- | --- | | eHR Description | Test Result | | Urine sediment microscopy | Moderate numbers of WBC seen; A few epithelial cells seen | | Bacteria, Urine, Culture | Klebsiella pneumoniae complex ; Pseudomonas aeruginosa |  * 1. At Laboratory Details:      1. All lab test results will be shown with its local test name (Level 2 data)  |  |  | | --- | --- | | Local Test Name | Test Result | | Urine Microscopy: | Moderate numbers of WBC seen; A few epithelial cells seen | | Organism 1: Klebsiella pneumoniae complex | >100,000 CFU/ml | | * Amoxycillin/clavulanate | Sensitive | | * Gentamicin | Sensitive | | * Levofloxacin | Sensitive | | Organism 2: Pseudomonas aeruginosa | 10,000 – 100,000 CFU/ml | | * Levofloxacin | Sensitive | | * Ticarcillin/clavulanate | Sensitive | | * Piperacillin | Intermediate | | * Gentamicin | Sensitive |  1. HCP uploaded one report image in PDF format and will be shown in the eHR Viewer (EVE)    1. PDF report content matched with the structured data |
| 2b | **Case scenario**: Update the bacterial growth count of the urine culture in LIS for <HCR2> of scenario 1b. Upload the lab record when the bacterial growth count is updated as follows:  Expected data contents for Level 3 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = UR\_CR * Panel local description = Microbiological examination of urine specimen and Microscopy Examination   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * **(Updated)** Laboratory report status code = A * **(Updated)** Laboratory report status description = Amended report * **(Updated)** Laboratory report status local description = Amend report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type – recognized terminology name = HKCTT * Specimen type identifier – recognized terminology = 5700211 * Specimen type description – recognized terminology = Midstream urine * Specimen type local code = MSU * Specimen type local description = Midstream urine * Specimen collection datetime = 01-Aug-2024 10:00:00 * Specimen arrival datetime = 01-Aug-2024 12:00:00   Microbiology Culture Test Result data  Microbiology Culture Test Result 1   * Microbiology Culture Test - recognised terminology name = LOINC * Microbiology Culture Test identifier - recognised terminology = 12235-8 * Microbiology Culture Test description - recognised terminology = Microscopic observation [Identifier] in Urine sediment by Light microscopy * Microbiology Culture Test local code = UR\_MIC * Microbiology Culture Test local description = Urine Microscopy: * Laboratory Test Result Type = 3 * Laboratory test reportable result = Nothing Abnormal Seen * Organism and susceptibility test result indicator = 0   Microbiology Culture Test Result 2   * Microbiology Culture Test - recognised terminology name = LOINC * Microbiology Culture Test identifier - recognised terminology = 630-4 * Microbiology Culture Test description - recognised terminology = Bacteria identified in Urine by Culture * Microbiology Culture Test local code = UR\_ORG * Microbiology Culture Test local description = Urine culture : * Laboratory Test Result Type = 3 * Laboratory test reportable result = Streptococcus agalactiae (Group-B) * Organism and susceptibility test result indicator = 1 * Organism key = C&ST|UR\_ORG|1|1   Organism and Susceptibility Test Result  Organism and Susceptibility Test Result 1   * Organism key = C&ST|UR\_ORG|1|1 * **(Updated)** Organism growth description text result = 10,000 – 100,000 CFU/ml * Organism - recognised terminology name = HKCTT * Organism identifier - recognised terminology = 5000454 * Organism description - recognised terminology = Streptococcus agalactiae * Organism local code = 32597 * Organism local description = Streptococcus agalactiae (Group-B) * Microbiology Culture Test local code = UR\_ORG * Susceptibility test and related property - recognised terminology name = LOINC * Susceptibility test and related property identifier - recognised terminology = 18928-2 * Susceptibility test and related property description - recognised terminology = Gentamicin [Susceptibility] * Susceptibility test and related property local code = 22540 * Susceptibility test and related property local description = Gentamicin * Susceptibility test and related property result code = S * Susceptibility test and related property result description = Sensitive * Susceptibility test and related property result local description = Sensitive   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * **(Updated)** Laboratory report date = 04-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 3 data validation 3. The record should be displayed under “Microbiology & Virology” 4. The Profile Description should display “Microbiological examination of urine specimen and Microscopy Examination” 5. The Laboratory structure data will be shown in the eHR Viewer (EVE)    1. At Laboratory Cumulative Result(s):       1. The lab tests are mapped with valid LOINC codes & descriptions. All test results will be shown with their corresponding eHR test name (Level 3 data)  |  |  | | --- | --- | | eHR Description | Test Result | | Urine sediment microscopy | Nothing Abnormal Seen | | Bacteria, Urine, Culture | Streptococcus agalactiae (Group B) |  * 1. At Laboratory Details:      1. All lab test results will be shown with their local test name (Level 2 data)  |  |  | | --- | --- | | Local Test Name | Test Result | | Urine Microscopy: | Nothing Abnormal Seen | | Organism 1: Streptococcus agalactiae (Group-B) | 10,000 – 100,000 CFU/ml | | * Gentamicin | Sensitive |  1. HCP uploaded one report image in PDF format and will be shown in the eHR Viewer (EVE)    1. PDF report content matched with the structured data |
| 2c | **Case scenario**: Register the send out lab test service request in LIS for <HCR3> of scenario 1c. The registered send out lab test is Level 1 PDF image data upload. Upload the send out lab test by new record key when the result is ready as follows:  Expected data contents for Level 1 interface record:  **(New Record Key)**  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = BID\_DH * Panel local description = Bacterial identification for DH   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = F * Laboratory report status description = Final report * Laboratory report status local description = Original report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type local code = PUS * Specimen type local description = Pus * Specimen collection datetime = 01-Aug-2024 10:00:00 * Specimen arrival datetime = 01-Aug-2024 12:00:00   Microbiology Culture Test Result data  Microbiology Culture Test Result 1   * Microbiology Culture Test local code = SENDOUT * Microbiology Culture Test local description = Sendout test: * Laboratory Test Result Type = 3 * Laboratory test reportable result = Please refer to DH report * Organism and susceptibility test result indicator = 0   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * Laboratory report date = 10-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Scenario 2c Lab record will pass Level 1 data validation 3. The record should be displayed under “Microbiology & Virology” 4. Two records should be shown in "Laboratory Record"    1. 01-Aug-2024 Pus/Bacterial identification for DH    2. 01-Aug 2024 Pus/Miscellaneous culture 5. No Structure data available at “Laboratory Cumulative Result(s)” for scenario 2c 6. Check the scenario 1c structured data in eHealth remains status quo.    1. **Please make reference to scenario 1c as following:**  |  |  | | --- | --- | | eHR Description | Test Result | | Bacteria, Miscellaneous culture | Bacteroides species |  1. HCP uploaded one report image in PDF format and will be shown in the eHR Viewer (EVE)    1. PDF report content should show the DH report. |
| 2d | **Case scenario:** Upload a “Delete” instruction to eHealth for removing the scenario 1d for <HCR4>  == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. The scenario 1d record will not be shown in the eHR Viewer (EVE). 2. Batch 2 Data file will contain 1 Delete transaction for record 1d. (Test results should be compared with provided results <*DF and DF\_INS message files>* as attached be Appendix 3 Sample Messages) |
|  | **Expected eMR System Behavior** | 1. HCP’s eMR system will upload **Batch 2** data file with all LABMB records of created in **2a-2d (Level 3 data)** by INC mode. 2. **Batch 2** data files should include below files: <[sample](#_Appendix_–_Sample)>    1. Participant List (PL)    2. Data Files (DFs)    3. HL7 message with signature    4. Zip File (embedded PL, DFs and HL7 message files)    5. Zip Control File (contains the filenames of PL, DFs and HL7 message) 3. eMR system uploads **Batch 2** data files (‘Zip File’ and ‘Zip Control File') to eHealth. 4. HCP verifies the data upload status by reviewing the 'Process Summary Report' and 'Exception Report' in eHR Inbox. 5. HCP verifies the completeness and correctness of data uploaded in eHR Viewer. | |
|  | **Results Verification** | * HCP verifies if the uploaded records can be properly viewed in eHR Viewer (EVE) and reviews if the data batches uploaded can be processed successfully or rejected through ‘Process Summary’, ‘Exception Report’ and ‘Re-grade Report’ in eHR Inbox. | |
| **Actual Result**  **(Screenshot / Attachment)** | **Data Files Uploaded:**  *<Attached the Zip file and Control file; password to unzip the file>* | |
| **Attachment/Screenshot:**  *<Attached the screen shots of records uploaded in eHR Viewers>* | |
| **Remark** | *<State your reasons/ justification for exemption with case number>* | |
| **Testing Date** | *<Provided by HCP>* | |
| **Verified By** | *<Provided by HCP>* | |

| **3** | **Test Case ID** | LABMB-LV2-001 [FOR LEVEL 2 DATA UPLOAD ONLY] | |
| --- | --- | --- | --- |
|  | **Function Description** | HCP received sharing consents from testing HCRs, then perform first data upload of HCRs’ LABMB records to eHealth by DM Mode for Level 2 data. | |
| **Subsequent case of** | N/A | |
| **Testing Assumption** | * <HCR1> - <HCR3> have already given sharing consents to the HCP. * The eMR system will upload Batch 1 data files to eHealth with all LABMB records of <HCR1> - <HCR3> created by DM mode. | |
| **Test Actions** | HCP creates below LABMB records in eMR system: | |
| 3a | **Case scenario**: Register the lab test service request of fungal culture in LIS for <HCR1>. Upload the lab record with structured lab test results and report image when the result is ready as follows:  Expected data contents for Level 2 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = FG * Panel local description = Mycological examination   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = P * Laboratory report status description = Provisional/Preliminary report * Laboratory report status local description = Interim report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type local code = NAIL * Specimen type local description = Nail * Specimen collection datetime = 01-Aug-2024 10:00:00 * Specimen arrival datetime = 01-Aug-2024 12:00:00   Microbiology Culture Test Result data  Microbiology Culture Test Result 1   * Microbiology Culture Test local code = FGCU * Microbiology Culture Test local description = Fungal culture : * Laboratory Test Result Type = 3 * Laboratory test reportable result = Trychophyton spp. * Organism and susceptibility test result indicator = 0   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * Laboratory report date = 08-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 2 data validation 3. The record should be displayed under “Microbiology & Virology” 4. The Profile Description should display “Mycological examination” 5. The Laboratory structure data will be shown in the eHR Viewer (EVE)    1. At Laboratory Cumulative Result(s):       1. The lab test will be shown with their local test names (Level 2 data)  |  |  | | --- | --- | | Local Test Name | Test Result | | Fungal culture : | Trychophyton spp. |  * 1. At Laboratory Details:      1. All lab test results will be shown with their local test name (Level 2 data)  |  |  | | --- | --- | | Local Test Name | Test Result | | Fungal culture : | Trychophyton spp. |  1. HCP uploaded one report image in PDF format and will be shown in the eHR Viewer (EVE)    1. PDF report content matched with the structured data |
| 3b | **(This case scenario is rather focusing on the IT technical readiness than business readiness.)**  **Case scenario**: Register the lab test service request of urine microscopy in LIS for <HCR2>. Upload the lab record with incomplete structured data **(i.e. Microbiology Culture Test local description = <Null>)** and report image when the result is ready as follows:  Expected data contents for Level 2 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = UR\_MIC * Panel local description = Urine Microscopy Examination   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = F * Laboratory report status description = Final report * Laboratory report status local description = Original report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type local code = MSU * Specimen type local description = Midstream urine * Specimen collection datetime = 01-Aug-2024 10:00:00 * Specimen arrival datetime = 01-Aug-2024 12:00:00   Microbiology Culture Test Result data  Microbiology Culture Test Result 1   * Microbiology Culture Test local code = UR\_MIC * **Microbiology Culture Test local description = <Null>** * Laboratory Test Result Type = 3 * Laboratory test reportable result = Nothing Abnormal Seen * Organism and susceptibility test result indicator = 0   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * Laboratory report date = 02-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will be regraded as Level 1 because the null value in Level 2 mandatory data field 3. The record should be displayed under “Microbiology & Virology” 4. The Profile Description should display “Urine Microscopy Examination” 5. The Laboratory record will be shown in the eHR Viewer (EVE) 6. No Structure data available at “Laboratory Cumulative Result(s)” 7. HCP uploaded one report image in PDF format and will be shown in the eHR Viewer (EVE)    1. The PDF report content should show the result of Urine Microscopy Examination. |
| 3c | **Case scenario**: Register the lab test service request of stool culture in LIS for <HCR3>. Upload the lab record with structured lab test results and report image when the result is ready as follows:  Expected data contents for Level 2 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = STLCU * Panel local description = Microbiological examination of stool specimen   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = F * Laboratory report status description = Final report * Laboratory report status local description = Original report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type local code = STL * Specimen type local description = Stool * Specimen collection datetime = 01-Aug-2024 10:00:00 * Specimen arrival datetime = 01-Aug-2024 12:00:00   Microbiology Culture Test Result data  Microbiology Culture Test Result 1   * Microbiology Culture Test local code = STL\_ORG * Microbiology Culture Test local description = Stool culture : * Laboratory Test Result Type = 3 * Laboratory test reportable result = No Salmonella, Shigella, Vibrio, Campylobacter isolated * Organism and susceptibility test result indicator = 0   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * Laboratory report date = 03-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 2 data validation 3. The record should be displayed under “Microbiology & Virology” 4. The Profile Description should display “Microbiological examination of stool specimen” 5. The Laboratory structure data will be shown in the eHR Viewer (EVE)    1. At Laboratory Cumulative Result(s):       1. The lab test will be shown with their local test names (Level 2 data)  |  |  | | --- | --- | | Local Test Name | Test Result | | Stool culture : | No Salmonella, Shigella, Vibrio, Campylobacter isolated |  * 1. At Laboratory Details:      1. All lab test results will be shown with their local test name (Level 2 data)  |  |  | | --- | --- | | Local Test Name | Test Result | | Stool culture : | No Salmonella, Shigella, Vibrio, Campylobacter isolated |  1. HCP uploaded one report image in PDF format and will be shown in the eHR Viewer (EVE)    1. PDF report content matched with the structured data |
|  | **Expected eMR System Behavior** | 1. HCP’s eMR system will upload **Batch 1** data fileswith all LABMB records of created in **3a-3c (Level 2 data)** by DM mode. 2. **Batch 1** data files should include below files: <[sample](#RXD001_Sample)>    1. Participant List (PL)    2. Data File (DF)    3. HL7 message with signature    4. Zip File (embedded PL, DFs and HL7 message files)    5. Zip Control File (contains the filenames of PL, DFs and HL7 message) 3. eMR system uploads **Batch 1** data files (‘Zip File’ and ‘Zip Control File') to eHealth. 4. HCP verifies the data upload status by reviewing the 'Process Summary Report' and 'Exception Report' in eHR Inbox. 5. HCP verifies the completeness and correctness of data uploaded in eHR Viewer. | |
|  | **Results Verification** | * HCP verifies if the uploaded records can be properly viewed in eHR Viewer (EVE) and reviews if the data batches uploaded can be processed successfully or rejected through ‘Process Summary’, ‘Exception Report’ and ‘Re-grade Report’ in eHR Inbox. | |
| **Actual Result**  **(Screenshot / Attachment)** | **Data Files Uploaded:**  *<Attached the Zip file and Control file; password to unzip the file>* | |
| **Attachment/Screenshot:**  *<Attached the screen shots of records uploaded in eHR Viewers>* | |
| **Remark** | *<State your reasons/ justification for exemption with case number>* | |
| **Testing Date** | *<Provided by HCP>* | |
| **Verified By** | *<Provided by HCP>* | |

| **4** | **Test Case ID** | LABMB-LV2-002 [FOR LEVEL 2 DATA UPLOAD ONLY] | |
| --- | --- | --- | --- |
|  | **Function Description** | There are subsequent changes in HCRs’ clinical records in Batch 1 data upload. HCP uploads incremental changes to eHealth by INC Mode for Level 2 data. | |
| **Subsequent case of** | LABMB-LV2-001 | |
| **Testing Assumption** | * HCP has already verified Batch 1 data are completed successfully. | |
| **Test Actions** | HCP updates LABMB records from Batch 1 in eMR system as follows: | |
| 4a | **Case scenario**: Update the result of fungal culture in LIS for <HCR1> of scenario 3a. Upload the lab record with structured lab test results and report image when the result is ready as follows:  Expected data contents for Level 2 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = FG * Panel local description = Mycological examination   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = F * Laboratory report status description = Final report * Laboratory report status local description = Original report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type local code = NAIL * Specimen type local description = Nail * Specimen collection datetime = 01-Aug-2024 10:00:00 * Specimen arrival datetime = 01-Aug-2024 12:00:00   Microbiology Culture Test Result data  Microbiology Culture Test Result 1   * Microbiology Culture Test local code = FGCU * Microbiology Culture Test local description = Fungal culture : * Laboratory Test Result Type = 3 * **(Updated)** Laboratory test reportable result = Trychophyton rubrum * Organism and susceptibility test result indicator = 0   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * **(Updated)** Laboratory report date = 10-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 2 data validation 3. The record should be displayed under “Microbiology & Virology” 4. The Profile Description should display “Mycological examination” 5. The Laboratory structure data will be shown in the eHR Viewer (EVE)    1. At Laboratory Cumulative Result(s):       1. The lab test will be shown with their local test names (Level 2 data)  |  |  | | --- | --- | | Local Test Name | Test Result | | Fungal culture : | Trychophyton rubrum |  * 1. At Laboratory Details:      1. All lab test results will be shown with their local test name (Level 2 data)  |  |  | | --- | --- | | Local Test Name | Test Result | | Fungal culture : | Trychophyton rubrum |  1. HCP uploaded one report image in PDF format and will be shown in the eHR Viewer (EVE)    1. PDF report content matched with the structured data |
| 4b | **Case scenario**: Update the incomplete structured data (i.e. Microbiology Culture Test local description = Urine Microscopy:) in LIS for <HCR2>. Upload the lab record with structured data and report image when the result is ready as follows:  Expected data contents for Level 2 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = UR\_MIC * Panel local description = Urine Microscopy Examination   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = F * Laboratory report status description = Final report * Laboratory report status local description = Original report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type local code = MSU * Specimen type local description = Midstream urine * Specimen collection datetime = 01-Aug-2024 10:00:00 * Specimen arrival datetime = 01-Aug-2024 12:00:00   Microbiology Culture Test Result data  Microbiology Culture Test Result 1   * Microbiology Culture Test local code = UR\_MIC * **(Updated)** Microbiology Culture Test local description = Urine Microscopy: * Laboratory Test Result Type = 3 * Laboratory test reportable result = Nothing Abnormal Seen * Organism and susceptibility test result indicator = 0   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * Laboratory report date = 02-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 2 data validation 3. The record should be displayed under “Microbiology & Virology” 4. The Profile Description should display “Urine Microscopy Examination” 5. The Laboratory structure data will be shown in the eHR Viewer (EVE)    1. At Laboratory Cumulative Result(s):       1. The lab test will be shown with their local test names (Level 2 data)  |  |  | | --- | --- | | Local Test Name | Test Result | | Urine Microscopy: | Nothing Abnormal Seen |  * 1. At Laboratory Details:      1. All lab test results will be shown with their local test name (Level 2 data)  |  |  | | --- | --- | | Local Test Name | Test Result | | Urine Microscopy: | Nothing Abnormal Seen |  1. HCP uploaded one report image in PDF format and will be shown in the eHR Viewer (EVE)    1. PDF report content matched with the structured data |
| 4c | **Case scenario:** Upload a “Delete” instruction to eHealth for removing the LABMB record of <HCR3> of scenario 3c.  == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. The previous record will not be shown in the eHR Viewer (EVE). 2. Batch 2 Data file will contain 1 Delete transaction for record 3c. (Test results should be compared with provided results <*DF message files>* as attached be Appendix 3 Sample Messages) |
|  | **Expected eMR System Behavior** | 1. HCP’s eMR system will upload **Batch 2** data file with all LABMB records of created in **4a-4c (Level 2 data)** by INC mode. 2. **Batch 2** data files should include below files: <[sample](#_Appendix_–_Sample)>    1. Participant List (PL)    2. Data Files (DFs)    3. HL7 message with signature    4. Zip File (embedded PL, DFs and HL7 message files)    5. Zip Control File (contains the filenames of PL, DFs and HL7 message) 3. eMR system uploads **Batch 2** data files (‘Zip File’ and ‘Zip Control File') to eHealth. 4. HCP verifies the data upload status by reviewing the 'Process Summary Report' and 'Exception Report' in eHR Inbox. 5. HCP verifies the completeness and correctness of data uploaded in eHR Viewer. | |
|  | **Results Verification** | * HCP verifies if the uploaded records can be properly viewed in eHR Viewer (EVE) and reviews if the data batches uploaded can be processed successfully or rejected through ‘Process Summary’, ‘Exception Report’ and ‘Re-grade Report’ in eHR Inbox. | |
| **Actual Result**  **(Screenshot / Attachment)** | **Data Files Uploaded:**  *<Attached the Zip file and Control file; password to unzip the file>* | |
| **Attachment/Screenshot:**  *<Attached the screen shots of records uploaded in eHR Viewers>* | |
| **Remark** | *<State your reasons/ justification for exemption with case number>* | |
| **Testing Date** | *<Provided by HCP>* | |
| **Verified By** | *<Provided by HCP>* | |

| **5** | **Test Case ID** | LABMB-LV1-001 [FOR LEVEL 1 DATA UPLOAD ONLY] | |
| --- | --- | --- | --- |
|  | **Function Description** | HCP received sharing consents from testing HCRs, then perform first data upload of HCRs’ LABMB records to eHealth by DM Mode for Level 1 data. | |
| **Subsequent case of** | N/A | |
| **Testing Assumption** | * <HCR1> - <HCR3> have already given sharing consents to the HCP. * The eMR system will upload Batch 1 data files to eHealth with all LABMB records of <HCR1> - <HCR3> created by DM mode. | |
| **Test Actions** | HCP creates below LABMB records in eMR system: | |
| 5a | **Case scenario**: Register the lab test service request of viral hepatitis in LIS for <HCR1>. Upload the report image when the result is ready as follows:  Expected data contents for Level 1 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = VH * Panel local description = Viral hepatitis   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = F * Laboratory report status description = Final report * Laboratory report status local description = Original report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type local code = CB * Specimen type local description = Clotted blood   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * Laboratory report date = 05-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 1 data validation 3. The Laboratory record will be shown in the eHR Viewer (EVE)    1. The Laboratory record should be displayed under “Microbiology & Virology”    2. The Profile Description should display “Clotted blood/Viral hepatitis” 4. The report image will be shown in the eHR Viewer (EVE) |
| 5b | **Case scenario**: Register the send out lab test service request of AFB smear and culture in LIS for <HCR2>. Upload the report image when the result is ready as follows:  Expected data contents for Level 1 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = AFB * Panel local description = AFB smear and culture   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = P * Laboratory report status description = Provisional/Preliminary report * Laboratory report status local description = Interim report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type local code = SPU * Specimen type local description = Sputum   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * Laboratory report date = 02-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 1 data validation 3. The Laboratory structure data will be shown in the eHR Viewer (EVE)    1. The structure data should be displayed under “Microbiology & Virology”    2. The Profile Description should display “Sputum/AFB smear and culture” 4. The report image will be shown in the eHR Viewer (EVE)    1. PDF report with incomplete content should be shown |
| 5c | **Case scenario**: Register the lab test service request of Rubella virus Ab in LIS for <HCR3>. Upload the report image when the result is ready as follows:  Expected data contents for Level 1 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = RUBAB * Panel local description = Rubella virus Ab   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = F * Laboratory report status description = Final report * Laboratory report status local description = Original report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type local code = CB * Specimen type local description = Clotted blood   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * Laboratory report date = 02-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 1 data validation 3. The Laboratory record will be shown in the eHR Viewer (EVE)    1. The Laboratory record should be displayed under “Microbiology & Virology”    2. The Profile Description should display “Clotted blood/ Rubella virus Ab” 4. HCP uploaded one PDF file and one report image will be shown in the eHR Viewer (EVE)    1. The PDF should show the result of antenatal serology |
|  | **Expected eMR System Behavior** | 1. HCP’s eMR system will upload **Batch 1** data fileswith all LABMB records of created in **5a-5c (Level 1 data)** by DM mode. 2. **Batch 1** data files should include below files: <[sample](#_Appendix_–_Sample)> 3. Participant List (PL) 4. Data File (DF) 5. HL7 message with signature 6. Zip File (embedded PL, DFs and HL7 message files) 7. Zip Control File (contains the filenames of PL, DFs and HL7 message) 8. eMR system uploads **Batch 1** data files (‘Zip File’ and ‘Zip Control File') to eHealth. 9. HCP verifies the data upload status by reviewing the 'Process Summary Report' and 'Exception Report' in eHR Inbox. 10. HCP verifies the completeness and correctness of data uploaded in eHR Viewer. | |
|  | **Results Verification** | * HCP verifies if the uploaded records can be properly viewed in eHR Viewer (EVE) and reviews if the data batches uploaded can be processed successfully or rejected through ‘Process Summary’, ‘Exception Report’ and ‘Re-grade Report’ in eHR Inbox. | |
| **Actual Result**  **(Screenshot / Attachment)** | **Data Files Uploaded:**  *<Attached the Zip file and Control file; password to unzip the file>* | |
| **Attachment/Screenshot:**  *<Attached the screen shots of records uploaded in eHR Viewers>* | |
| **Remark** | *<State your reasons/ justification for exemption with case number>* | |
| **Testing Date** | *<Provided by HCP>* | |
| **Verified By** | *<Provided by HCP>* | |

| **6** | **Test Case ID** | LABMB-LV1-002 [FOR LEVEL 1 DATA UPLOAD ONLY] | |
| --- | --- | --- | --- |
|  | **Function Description** | There are subsequent changes in HCRs’ clinical records in Batch 1 data upload. HCP uploads incremental changes to eHealth by INC Mode for Level 1 data. | |
| **Subsequent case of** | LABMB-LV1-001 | |
| **Testing Assumption** | * HCP has already verified Batch 1 data are completed successfully. | |
| **Test Actions** | HCP updates LABMB records from Batch 1 in eMR system as follows: | |
| 6a | **Case scenario**: Update the lab test service request from “viral hepatitis” to “Viral hepatitis B study” in LIS for <HCR1> of scenario 5a. Upload the report image when the result is ready as follows:  Expected data contents for Level 1 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * **(Updated)** Panel local code = VHBS * **(Updated)** Panel local description = Viral hepatitis B study   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * Laboratory report status code = F * Laboratory report status description = Final report * Laboratory report status local description = Original report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type local code = CB * Specimen type local description = Clotted blood   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * Laboratory report date = 05-Aug-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 1 data validation 3. The Laboratory record will be shown in the eHR Viewer (EVE)    1. The Laboratory record should be displayed under “Microbiology & Virology”    2. The Profile Description should display “Clotted blood/Viral hepatitis B study” 4. The report image will be shown in the eHR Viewer (EVE) |
| 6b | **Case scenario**: Update the send out lab test service request of AFB smear and culture in LIS for <HCR2> of scenario 5b. Upload the report image when the result is ready as follows:  Expected data contents for Level 1 interface record:  Laboratory test request data   * Laboratory test order number = [source system provided] * Laboratory test request healthcare institution identifier = [source system provided] * Laboratory test request healthcare institution long name = [source system provided] * Laboratory test request healthcare institution local name = [source system provided] * Panel local code = AFB * Panel local description = AFB smear and culture   Laboratory result general information data   * Laboratory test request performing laboratory name = [source system provided] * Laboratory test request number = [source system provided] * Laboratory category code = MICRO * Laboratory category description = Microbiology & Virology * Laboratory category local description = Clinical Microbiology * **(Update)** Laboratory report status code = F * **(Update)** Laboratory report status description = Final report * **(Update)** Laboratory report status local description = Original report * Laboratory report reference datetime = 01-Aug-2024 10:00:00   Specimen data   * Specimen type local code = SPU * Specimen type local description = Sputum   Laboratory test report data  Lab test report 1   * Laboratory report (PDF) = [PDF file upload by HCP] * File indicator = 1 * File name = [PDF file name upload by HCP] * **(Update)** Laboratory report date = 02-Oct-2024 17:00:00   == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. Data Upload without problem 2. Lab record will pass Level 1 data validation 3. The Laboratory structure data will be shown in the eHR Viewer (EVE)    1. The structure data should be displayed under “Microbiology & Virology”    2. The Profile Description should display “Sputum/AFB smear and culture” 4. The report image will be shown in the eHR Viewer (EVE)    1. PDF report should show the complete content |
| 6c | **Case scenario:** Upload a “Delete” instruction to eHealth for removing the LABMB record of <HCR3> of scenario 5c  == Actual data values (Refer to “Appendix - Actual Data Values (Sample)” for details)  **Expected result:**   1. The previous record will not be shown in the eHR Viewer (EVE). 2. Batch 2 Data file will contain 1 Delete transaction for record 5c. (Test results should be compared with provided results <*DF message files>* as attached be Appendix 3 Sample Messages) |
|  | **Expected eMR System Behavior** | 1. HCP’s eMR system will upload **Batch 2** data file with all LABMB records of created in **6a-6c (Level 1 data)** by INC mode. 2. **Batch 2** data files should include below files: <[sample](#_Appendix_–_Sample)> 3. Participant List (PL) 4. Data Files (DFs) 5. HL7 message with signature 6. Zip File (embedded PL, DFs and HL7 message files) 7. Zip Control File (contains the filenames of PL, DFs and HL7 message) 8. eMR system uploads **Batch 2** data files (‘Zip File’ and ‘Zip Control File') to eHealth. 9. HCP verifies the data upload status by reviewing the 'Process Summary Report' and 'Exception Report' in eHR Inbox. 10. HCP verifies the completeness and correctness of data uploaded in eHR Viewer. | |
|  | **Results Verification** | * HCP verifies if the uploaded records can be properly viewed in eHR Viewer (EVE) and reviews if the data batches uploaded can be processed successfully or rejected through ‘Process Summary’, ‘Exception Report’ and ‘Re-grade Report’ in eHR Inbox. | |
| **Actual Result**  **(Screenshot / Attachment)** | **Data Files Uploaded:**  *<Attached the Zip file and Control file; password to unzip the file>* | |
| **Attachment/Screenshot:**  *<Attached the screen shots of records uploaded in eHR Viewers>* | |
| **Remark** | *<State your reasons/ justification for exemption with case number>* | |
| **Testing Date** | *<Provided by HCP>* | |
| **Verified By** | *<Provided by HCP>* | |

# Appendix – Sample Messages

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Step No.** | **File Type** | **Bulk Load Format**  **Level 3** | **SOAP Format**  **(by LAAM)** |
| LABMB-LV3-001 | [DM]  1a – 1e | Participant List (PL) |  |  |
| Data File (DF\_REQ) |  |
| Data File (DF\_MB) |  |
| Data File (DF\_ST) |  |
| Data File (DF\_RPT) |  |
| HL7 Message |  |
| Zip File | *(Password: Abcd1234)* |
| Control File |  |
| LABMB-LV3-002 | [INC]  2a – 2d | Participant List (PL) |  |  |
| Data File (DF\_REQ) |  |
| Data File (DF\_MB) |  |
| Data File (DF\_ST) |  |
| Data File (DF\_RPT) |  |
| HL7 Message |  |
| Zip File | *(Password: Abcd1234)* |
| Control File |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Step No.** | **File Type** | **Bulk Load Format**  **Level 2** | **SOAP Format**  **(by LAAM)** |
| LABMB-LV2-001 | [DM]  3a – 3c | Participant List (PL) |  |  |
| Data File (DF\_REQ) |  |
| Data File (DF\_MB) |  |
| Data File (DF\_ST) |  |
| Data File (DF\_RPT) |  |
| HL7 Message |  |
| Zip File | *(Password: Abcd1234)* |
| Control File |  |
| LABMB-LV2-002 | [INC]  4a – 4c | Participant List (PL) |  |  |
| Data File (DF\_REQ) |  |
| Data File (DF\_MB) |  |
| Data File (DF\_ST) |  |
| Data File (DF\_RPT) |  |
| HL7 Message |  |
| Zip File | *(Password: Abcd1234)* |
| Control File |  |

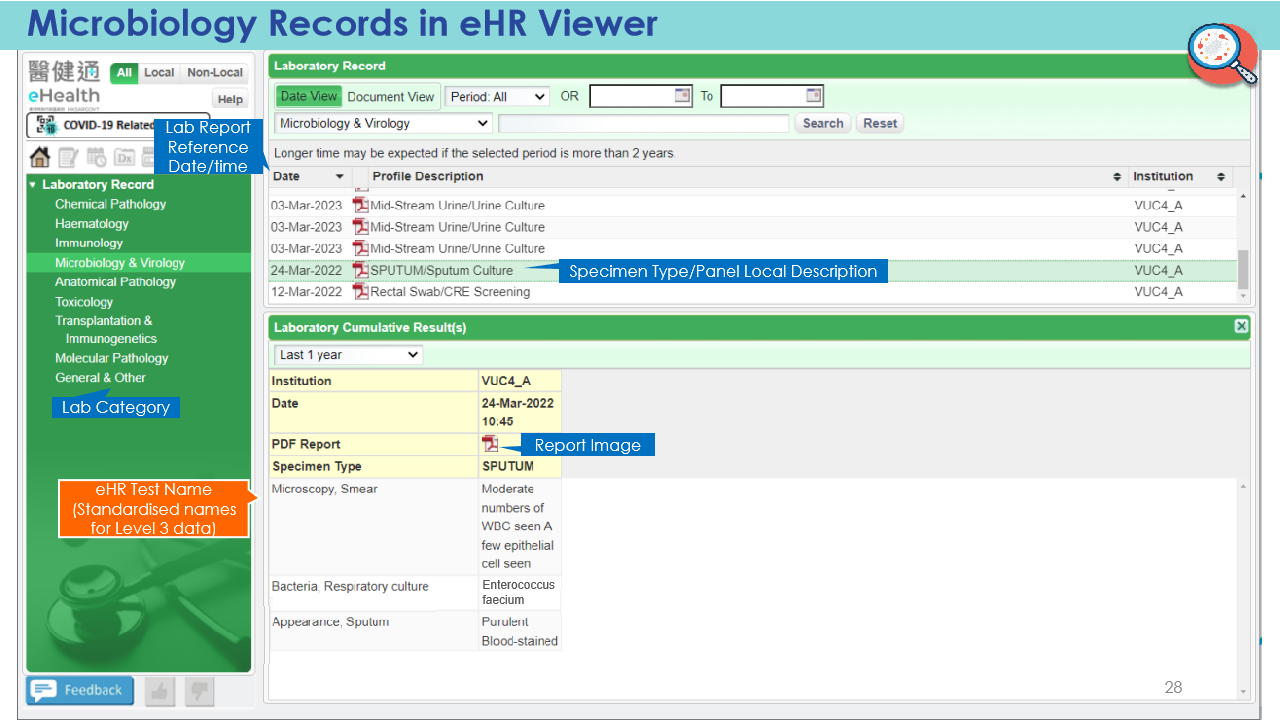
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Step No.** | **File Type** | **Bulk Load Format**  **Level 1** | **SOAP Format**  **(by LAAM)** |
| LABMB-LV1-001 | [DM]  5a – 5c | Participant List (PL) |  |  |
| Data File (DF\_REQ) |  |
| Data File (DF\_MB) |  |
| Data File (DF\_ST) |  |
| Data File (DF\_RPT) |  |
| HL7 Message |  |
| Zip File | *(Password: Abcd1234)* |
| Control File |  |
| LABMB-LV1-002 | [INC]  6a – 6c | Participant List (PL) |  |  |
| Data File (DF\_REQ) |  |
| Data File (DF\_MB) |  |
| Data File (DF\_ST) |  |
| Data File (DF\_RPT) |  |
| HL7 Message |  |
| Zip File | *(Password: Abcd1234)* |
| Control File |  |

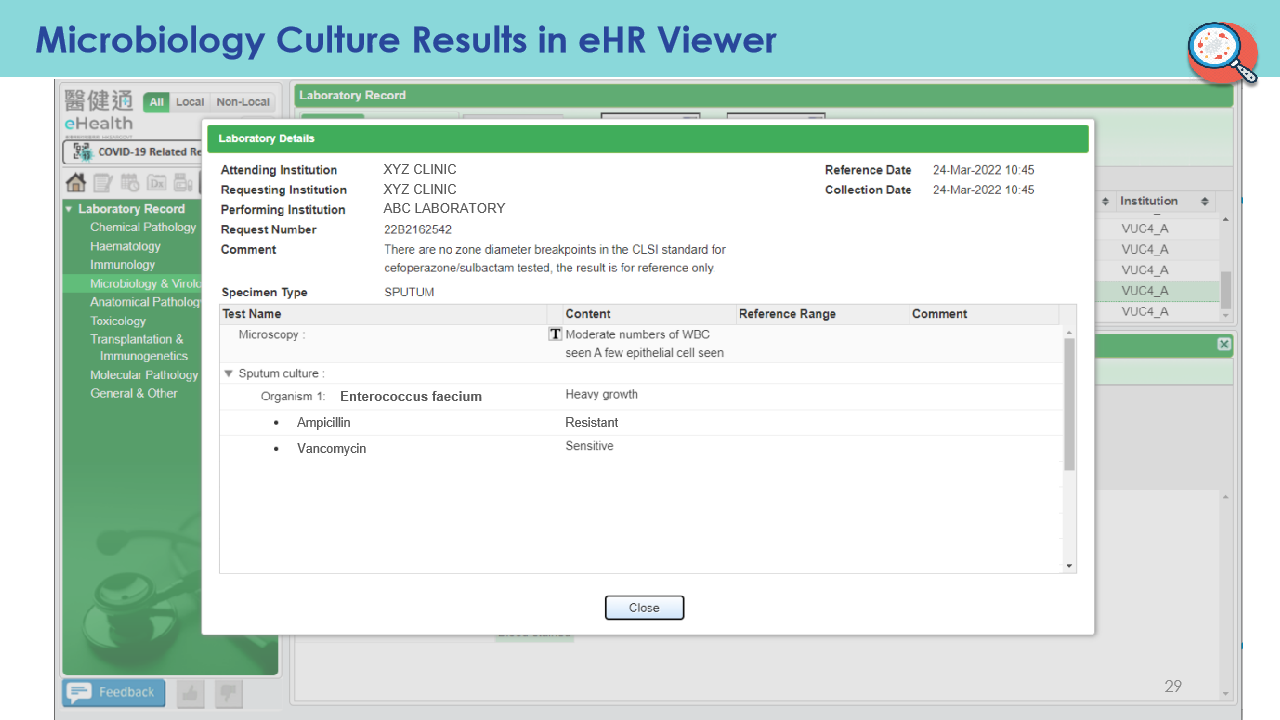
# Appendix – Testing HCP and HCRs Information

|  |  |
| --- | --- |
| **Sample Message** |  |
| **Self-Service Testing** | *<Attach the testing HCRs excel file used>* |
| **Final Testing** | *<Attach the testing HCRs excel file used>* |

* + eHR DCT Support will provide other sets of testing HCRs for HCP to perform Self-Service testing and Final testing respectively.

# Appendix – Sample Results in eHR Viewer (EVE)



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# Appendix – Actual Data Values (Sample)

If the actual values entered are various from the test case, please provide actual values as below.

If the value is not inputted, please use [BLANK] to indicate that empty value is inputted intentionally.

