

Sample HL7 Message Requirements

To receive feedback on an existing HL7 interface, the organization should email the sample HL7 messages in raw text format, including accompanying lab reports (either a printout or screen image so that the CPIS can identify which fields on the report are transmitted in the HL7 message).

Please submit messages for the following scenarios:

Core Laboratory Messages

1. Single test with a **numeric result**
2. Single test with a **numeric result** expressed as a **range of values**
3. Single test with a **textual result**
4. **Battery/group** test with **multiple results**
5. **Reflexed** test
6. **Cancel** a single test
7. **Cancel** one test from a **battery/group** test but result the rest
8. **Add** a test to an order
9. **Correct** a single result
10. **Correct one result** in a group test but not the rest of the results
11. **Withdraw** a result for a mislabeled specimen

Microbiology Messages

For microbiology messages, the organization should include the following additional scenarios (and include reports for each stage of each of the scenarios):

1. Report a **gram stain** indicating multiple organisms and pus, then **correct** the gram stain
2. Report a **preliminary** gram stain, then report the **confirmation**
3. Report a **negative** blood culture
4. Report a **positive** blood culture

5. Order and result a **culture and sensitivity report**, including all messages that would be sent through its “life cycle” until the report has transitioned to “final” status:
 - Gram stain
 - Three organisms identified
 - Indicate that one of the organisms has been reported to public health
 - Multiple sensitivities reported for each organisms identified:
 - Correct one of the organisms in the report – choose a corrected organism that has no impact on the sensitivities previously reported (verify and send the report message(s))
 - Transition the report to “final” status
 - Correct another (one) of the organisms in the report with multiple organisms, choose a corrected organism that requires correcting at least some of the sensitivities previously reported
6. Order and result a **culture and sensitivity report**, including two organisms and multiple sensitivities for each
 - Report one or two of the sensitivity batteries
 - Subsequently send the remaining sensitivity battery(ies)
 - **Invalidate/withdraw** at least one of the organisms in the report, along with the associated sensitivities
7. **Urine culture report** with single organism and colony count
8. Order and result a **urine culture report** with two organisms, single colony count (if the adopter organization does not report two organisms with a single count, please indicate this and omit this scenario)
9. Order and result a **urine culture report** with multiple organisms, multiple counts (i.e., a distinct organism for each count) and sensitivities
 - **Correct** one of the organisms in the report
10. Order and result a **multiplex PCR**
11. Order and result a **stool for ova and para, CD toxin and culture** (with sensitivity on the isolated shigella)
12. Order and result a **genital specimen for chlamydia PCR (positive) and culture**, including a direct exam (wet prep) showing light growth for Staph aureus with sensitivities
13. Order and result a **serology screen** (like Flu B igG and IgM, and a serology with a titer result)
14. Show a result with an **interpretation** (e.g., “No evidence of recent infection”, or “This result is consistent with Bacterial vaginosis”)