## Yampa Valley Medical Center

## Clinical Laboratory

**Reflex Test Protocols**

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| **Test Ordered** | **Initial Test Performed** | **Criteria for Reflex** | **Tests Ordered by Reflex, as applicable** |
| **Blood Bank** | | | |
| Prepare RBCs for Transfusion | N/A | No Antibody Screen ordered | Antibody Screen |
| (aka Crossmatch) |  |  |  |
| Direct Antiglobulin Test (DAT) | Polyspecific DAT | Positive polyspecific DAT | IgG DAT |
|  |  |  |  |
| Fetal Cell Screen | Fetal Cell Screen | Positive | Fetal Hemoglobin |
| Rh Type | Rh Type | Rh-negative mother with Rh - | Type and Screen and/or Rh |
|  |  | positive or Rh-unknown baby | Immunoglobulin |
| Type and Screen | ABO, Rh, Antibody Screen | Positive antibody screen | Antibody identification |
|  |  | No historical ABO type | ABO Group (retype) |
| Transfusion Reaction | N/A | Patient temperature increase | Culture and Gram Stain of |
| Investigation (red cell |  | ≥ 3°C. | blood unit |
| components only) |  |  |  |
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| **Test Ordered** | **Initial Test Performed** | **Criteria for Reflex** | **Tests Ordered by Reflex, as applicable** |
| **Chemistry/Immunoassay** | | | |
| Lactate Arterial Sepsis | Lactate, Arterial | Result of ≥ 2.0 mmol/L | Lactate, Arterial to be drawn 2 |
|  |  |  | hours post treatment/ |
|  |  |  | monitoring. |
| Lactate Venous Sepsis | Lactate, Venous | Result of ≥ 2.0 mmol/L | Lactate, Venous to be drawn 2 |
|  |  |  | hours post treatment/ |
|  |  |  | monitoring. |
|  |  |  |  |
|  |  |  |  |
| Hepatitis C | Hepatitis C IgG and IgM Antibodies | Result is Reactive | Hepatitis C RNA Quantification  (ARUP) |
|  |  |  |  |
| HIV 1/2 Antibody | HIV 1 and 2 Antibodies | Result is Reactive | HIV-1 Antibody Western Blot Confirmation |
|  |  |  |  |
| Hepatitis B Surface Antigen | HBsAG Screen | Result is Reactive | Hepatitis B Surface Antigen Confirmation (ARUP) |
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| **Test Ordered** | **Initial Test Performed** | **Criteria for Reflex** | **Tests Ordered by Reflex, as applicable** |
| **Hematology and Coagulation** | | | |
| CBC/Plt/Autodiff | CBC/Plt/Autodiff | Autodiff fails | CBC, no autodiff |
| Physician Directed Path | Pathologist Review and | Pathologist required clinical | CBC is automatically ordered |
| Review | Complete Blood Count (CBC) | context for correlation. | and performed. |

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| **Test Ordered** | **Initial Test Performed** | **Criteria for Reflex** | **Tests Ordered by Reflex, as applicable** |
| **Microbiology** | | | |
| Blood Culture | Blood Culture | Positive culture | Identification, aerobe; |
|  |  |  | Identification, anaerobe; |
|  |  |  | Identification, enzyme |
|  |  |  | detection; |
|  |  |  | Identification, mold; |
|  |  |  | Identification, Mycobacteria/ |
|  |  |  | AFB; |
|  |  |  | Identification, yeast; |
|  |  |  | Sensitivity; |
|  |  |  | Culture typing; per antiserum |
| Rapid Streptococcal A | Rapid Streptococcal A | Negative | Throat Culture, Group A Strep |
| Antigen | Antigen |  | only |
| C-Diff PCR | C-Diff PCR | Positive | C-Diff Toxin |

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| **Urinalysis** | | | |
| Urinalysis, Reflex | Urinalysis Chemical | Any appearance other than | Microscopic Examination |
|  |  | "Clear", and/or Positive |  |
|  |  | Protein, Blood, Nitrite, and/or |  |
|  |  | Leukocyte esterase |  |
| Urinalysis with culture if indicated | Urinalysis Dipstick test, Microscopic if applicable | <10 Epithelial cells per high power field AND > 10 WBCs per high power field. | Urine Culture |

**ARUP Reference Lab** <https://arupconsult.com/Algorithms/or.html>