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| **Children’s Minnesota Laboratory** |
| **Microbiology & Molecular** |
| **PPE Assessment** |
| **Campus: Minneapolis**  | Checked boxes are the minimum requirements as defined by Children’s Minnesota policies. If task presents additional exposure concerns add PPE to minimize exposure to biological or hazardous splashes. |
| **TASK** | **No PPE** | **Gloves** | **Lab Coat** | **Eye/Face Protection – goggles, face shield, benchtop shield** | **Hood** | **Other Information** |
| 1. Physically transporting patient specimens between labs
 | X |  |  |  |  | Specimens must be in a plastic bag and ‘sealed’. |
| 1. Physically transporting slides between labs
 | X |  |  |  |  | Specimens should be in a closed carrier or cardboard slide container. |
| 1. Any specimens transported within the lab, not in a plastic bag
 |  | X | X |  |  |  |
| 1. Handling any specimen within the lab, not in a plastic bag
 |  | X | X |  |  |  |
| 1. Performing inventory and unpacking media
 |  |  | X |  |  |  |
| 1. Instrument maintenance: parts contaminated with body fluids or blood
 |  | X | X |  |  |  |
| 1. Processing microbiology specimens
 |  | X | X |  | BSCX |  |
| 1. Processing molecular specimens
 |  | X | X |  | BSCX |  |
| 1. Processing positive blood/body fluid cultures or sub-culturing blood/body fluid cultures, includes making slide for gram stain
 |  | X | X |  | BSCX |  |
| 1. Prepping cytocentrifuge slides
 |  | X | X |  | BSCX |  |
| 1. Staining slides
 |  | X | X | X |  |  |
| **TASK** | **No PPE** | **Gloves** | **Lab Coat** | **Eye/Face Protection – goggles, face shield, benchtop shield** | **Hood** | **Other Information** |
| 1. Boiling Thios
 |  | X(insulated) | X |  |  |  |
| 1. Reading dry stained slides at Microscope
 |  |  | X |  |  |  |
| 1. Cover-slipping wet slides
 |  | X | X |  |  |  |
| 1. Reading wet slides at microscope
 |  | X | X |  |  |  |
| 1. Measuring acetone/alcohols
 |  | X | X | X |  |  |
| 1. Measuring Americlear/other chemical solutions
 |  | X | X | X |  |  |
| 1. Preparing 10% bleach solution
 |  | X | X |  |  |  |
| 1. Rehydrating reagents (FA buffer, Shigella antisera)
 |  | X | X |  |  |  |
| 1. Changing Fyrite
 |  | X | X | X |  |  |
| 1. Cleaning bench tops
 |  | X | X |  |  |   |
| 1. Cleaning hood surfaces
 |  | X | X |  |  |  |
| 1. Reading plates
 |  |  | X |  |  |  |
| 1. Subculture colonies or broth tubes
 |  |  | X |  |  |  |
| 1. Performing PBP2a assay
 |  | X | X |  |  |  |
| 1. Performing identification tests (rapid tests, VITEK 2, VITEK MS, Microscan)
 |  | \* | X | \*\* |  | \*Use gloves when performing identification on VITEK MS \*\*Use eye protection when performing identification on VITEK 2 and Microscan |
| 1. Setting up AST (all methods)
 |  |  | X | X\* |  | \*Vortexing or other spatter-generating steps require eye/face protection |
| 1. Preparing smears and fixing slides
 |  | X | X |  |  |  |
| **TASK** | **No PPE** | **Gloves** | **Lab Coat** | **Eye/Face Protection – goggles, face shield, benchtop shield** | **Hood** | **Other Information** |
| 1. Preparing lactophenol cotton blue preps
 |  | X | X |  | BSCX |  |
| 1. Examining sealed fungal cultures
 |  |  | X |  |  |  |
| 1. Handling yeast cultures
 |  |  | X |  |  |  |
| 1. Operating Vitek
 |  |  | X |  |  |  |
| 1. Operating MALDI-TOF
 |  | X | X |  |  | Glove use to prevent contamination of slide/prevent moisture inside vacuum of instrument  |
| 1. Operating Bactec
 |  | \* | X |  |  | \*Use gloves if bottles are being installed/removed from instrument |
| 1. Instrument maintenance
 |  |  | X |  |  |  |
| 1. Cleaning incubators
 |  | X | X | X |  |  |
| 1. Concentrating fecal specimens, smear, and wet mounts
 |  | X | X | X |  |  |
| 1. Disposing biohazard waste (red trash)
 |  | X | X |  |  |  |
| 1. Changing gas tanks
 | X |  |  |  |  |  |
| 1. Eyewash and safety shower checks
 |  |  | X |  |  |  |
| 1. Obtaining specimens from -70° C freezer
 |  | X(insulated) | X |  |  | Wear insulated gloves |
| 1. Obtaining dry ice from insulated container
 |  | X(insulated) | X |  |  | Wear insulated gloves |
| 1. Centrifuging microbiology specimens
 |  | X | X |  |  | Sealed containers |
| 1. Operating Biofire
 |  | X | X |  |  |  |
| 1. Operating GeneXpert
 |  | X | X |  |  |  |
| **TASK** | **No PPE** | **Gloves** | **Lab Coat** | **Eye/Face Protection – goggles, face shield, benchtop shield** | **Hood** | **Other Information** |
| **Molecular tasks:** |  |  |  |  |  |  |
| 1. Operating Simplexa
 |  | X | X |  |  |  |
| 1. Operating easyMAG
 |  | X | X |  |  |  |
| 1. Operating Agena MassArray
 |  | X | X |  |  |  |
| 1. Operating KingFisher
 |  | X | X | \* |  | \*Any handling of the proteinase K and Beads/Binding solution outside of the biosafety cabinet will require the use of eye protection |
| 1. Making chemical solutions (Extran, bleach)
 |  | X | X | X |  |  |
| 1. Operating Thermocycler
 |  | X | X |  |  |  |
| 1. Operating microfuge
 |  | X | X |  |  |  |