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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 |  | BSC  X |  | |
| 1. Processing molecular specimens |  | X | X |  | BSC  X |  | |
| 1. Processing positive blood/body fluid cultures or sub-culturing blood/body fluid cultures, includes making slide for gram stain |  | X | X |  | BSC  X |  | |
| 1. Prepping cytocentrifuge slides |  | X | X |  | BSC  X |  | |
| 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 |  | BSC  X |  | |
| 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 |  |  |  | |