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|---------------------------------|--------------------------------------------------|-------------------------------------------------|----------|
|                                 | <b>One Dorset Pathology</b>                      | <b>Title: A - Z of Microbiology tests (A-D)</b> |          |
|                                 | Dorset County Hospital NHS Foundation Trust      | Document U-MIC-P-134                            |          |
|                                 | University Hospitals Dorset NHS Foundation Trust | Revision: 16                                    | Page 1/3 |
| <b>Department: Microbiology</b> |                                                  | <b>Site: Bournemouth</b>                        |          |

| Test                                                                                                                                                                                               | Specimen                                           | Container                      | Required volume | Laboratory           | Turnaround time                                            | Additional information                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------|-----------------|----------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Adenovirus                                                                                                                                                                                         | Faeces – children under 5 years                    | Sterile universal container    | 1ml             | RBH                  | 1 day                                                      |                                                                                                                                                                         |
|                                                                                                                                                                                                    | Faeces - immune-compromised                        | Sterile Universal              | Minimum 200µl   | Reference laboratory | 7 days                                                     | <b>All requests for PCR MUST be discussed with a Consultant Microbiologist</b>                                                                                          |
|                                                                                                                                                                                                    | Blood                                              | EDTA blood (purple top)        | 1-5ml           |                      |                                                            |                                                                                                                                                                         |
|                                                                                                                                                                                                    | Swabs (e.g. eye)                                   | Swab in Viral Transport Medium | N/A             |                      |                                                            |                                                                                                                                                                         |
| Amoebic serology (Amoebic IFAT)                                                                                                                                                                    | Blood (serum)                                      | Clotted blood (red-top)        | 5-10ml          | Reference laboratory | 14 days                                                    | All requests MUST be discussed with Consultant Microbiologist                                                                                                           |
| Antenatal serology                                                                                                                                                                                 | Blood (serum)                                      | Clotted blood (red-top)        | 5-10ml          | RBH                  | 1-3 days                                                   |                                                                                                                                                                         |
| Anthrax (isolation/ PCR)                                                                                                                                                                           | Tissue/ lesion fluid                               | Sterile Universal              |                 | Reference laboratory | 7 days                                                     | <b>All requests MUST be discussed with Consultant Microbiologist</b>                                                                                                    |
| <b>Antibiotic Assays</b>                                                                                                                                                                           | <b>SEE TRUST INTRANET – Antimicrobial Guidance</b> |                                |                 |                      |                                                            |                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>Aspirates (eg joint)</li> </ul>                                                                                                                             | Aspirate/ fluid                                    | Sterile Universal              |                 | RBH                  | 4-7 days for MC&S                                          | Please specify if mycobacterial investigations needed.<br><br>For urgent samples, include the name of requesting Doctor & bleep/contact number on request form          |
| <b>Arboviral serology and PCR</b><br><br>(e.g Chikungunya virus, Dengue fever, Yellow fever, West Nile virus, Zika virus) <ul style="list-style-type: none"> <li></li> </ul>                       | Blood (serum)                                      | Clotted blood (red-top)        | 5-10ml          | Reference laboratory | 7-14 days                                                  | <b>A full travel history and immunisation details is essential for test interpretation.</b><br><br><b>All requests MUST be discussed with Consultant Microbiologist</b> |
| Beta-glucan antigen test<br>Galactomannan,                                                                                                                                                         | Blood (serum)                                      | Clotted blood (red-top)        | 5-10ml          | Reference laboratory | 4 days                                                     |                                                                                                                                                                         |
| Blood cultures <ul style="list-style-type: none"> <li>If endocarditis is clinically suspected please state in clinical details</li> <li>If suspected line infection need simultaneously</li> </ul> | In Adult : Blood                                   | Blood culture bottles          | 8-10 ml<br>4 ml | RBH                  | 5 days for generic protocol                                | Take before antimicrobials are given if possible.                                                                                                                       |
|                                                                                                                                                                                                    | In children: Blood                                 | Blood culture bottles          |                 |                      | unless clinical details state endocarditis 21 day protocol |                                                                                                                                                                         |

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| line and lumen cultures and clearly label                                     |                                                                                   |                                              |                                                                                                   |                                        |                                                                                                               |                                                                     |
| Bordetella PCR                                                                | Pernasal swab or NPA (child)                                                      | Swab or Universal if NPA                     | N/A                                                                                               | Reference laboratory                   | 6 days                                                                                                        |                                                                     |
| Bordetella serology-<br>?recent infection<br>[not for assessment of immunity] | Blood (serum)                                                                     | Clotted blood (red-top)                      | 5-10ml                                                                                            | Reference laboratory                   | 14 days                                                                                                       | For individuals with chronic cough for >2 weeks.                    |
| Broncho-alveolar lavage (BAL) or washings                                     | BAL/ washings                                                                     | Sterile Universal                            |                                                                                                   | RBH<br><br>PCP to Reference laboratory | 4 days for standard MC&S (may be extended to 7 days if extended incubation for fungi is clinically indicated) | Please specify if TB, fungal, viral or other test required (eg PCP) |
| Cervical swab (endocervical) for gonococci, PID. See below for Chlamydia.     | Swab                                                                              | Swab in Amies transport medium with charcoal | N/A                                                                                               | RBH                                    | 4 days                                                                                                        | See below for Chlamydia.                                            |
| Chickenpox                                                                    | See under Varicella                                                               |                                              |                                                                                                   |                                        |                                                                                                               |                                                                     |
| Chlamydia trachomatis NAATS/ PCR test                                         | Urine                                                                             | Dedicated collection device                  | 10-20 ml                                                                                          | Dorset County Hospital                 | <b>2 days upon receipt at DCH</b>                                                                             | First catch urine                                                   |
|                                                                               | Female endocervical/ female high vaginal / urethral / intra-abdominal (PID) swabs |                                              |                                                                                                   |                                        |                                                                                                               |                                                                     |
|                                                                               | Conjunctival / Throat swabs                                                       |                                              |                                                                                                   |                                        |                                                                                                               |                                                                     |
| <i>Clostridium difficile</i> toxin testing                                    | Faeces                                                                            | Universal 30 ml faecal pot                   | With the spatula provided transfer a cherry-sized portion of faeces or equivalent volume of fluid | RBH                                    | 30hrs                                                                                                         |                                                                     |
| CMV serology                                                                  | Blood                                                                             |                                              |                                                                                                   |                                        |                                                                                                               |                                                                     |
| CMV PCR (Quantitative assay)<br>Corneal scrape                                | Blood                                                                             | EDTA blood                                   | 1-5 ml (minimum 200µl/ assay)                                                                     | Reference laboratory<br>RBH            | 8 days                                                                                                        | Discuss interpretation of results a Consultant Microbiologist.      |

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|                                                | Tissues/fluids/<br>resp samples   | Sterile<br>Universal                                        | N/A               |                         | Up to 14<br>days                                              | <b>Please state<br/>clearly if fungal/<br/>mycobacterial or<br/>viral<br/>investigations<br/>required.</b> |
| <i>Coxiella burnetii</i><br>serology (Q fever) | Blood (serum)                     | Clotted<br>blood<br>(red-top)                               | 5-10ml            | Reference<br>laboratory | 7-14 days                                                     | <b>Discuss with<br/>Consultant<br/>Microbiologist if<br/>suspected.</b>                                    |
| Cryptococcal antigen                           | Blood (serum)                     | Clotted<br>blood<br>(red-top)                               | 5-10ml<br>(blood) | Reference<br>laboratory | 48 hrs upon<br>receipt at<br>reference<br>laboratory<br>(TBC) |                                                                                                            |
| Dengue serology                                | Refer to<br>Arboviral<br>serology |                                                             |                   |                         |                                                               |                                                                                                            |
| Diphtheria isolation                           | Swab                              | Swab in<br>Amies<br>transport<br>medium<br>with<br>charcoal | N/A               | RBH                     | 2-3 days                                                      | <b>Discuss with<br/>Consultant<br/>Microbiologist if<br/>suspected.</b>                                    |