

Dept	Discription of Changes from Ver. 3.13 to 3.14 GUH LAB USER GUIDE	Page No. Ver. 3.13	Page No. Ver. 3.14
General	Changed: USE OF THE LABORATORY from page 13 to 14 Changed: PHLEBOTOMY SERVICE from page 19 to 20 Changed: TRANSPORT OF SPECIMENS TO THE LABORATORY from page 21 to 22 Changed: REPORTING RESULTS from page 24 to 27 Changed: BLOOD AND TISSUE ESTABLISHMENT from page 26 to 29 Changed CLINICAL BIOCHEMISTRY DEPARTMENT from page 37 to 40 Changed: DIVISION OF ANATOMIC PATHOLOGY from page 43 to 46 Changed: MORTUARY SERVICES-AUTOPSY from page 53 to 56 Changed: IMMUNOLOGY DEPARTMENT (SUPRAREGIONAL SERVICE) from page 57 to 60 Changed: HAEMATOLOGY LABORATORY from page 71 to 75 Changed: MEDICAL MICROBIOLOGY DEPARTMENT from page 75 to 79 Changed: VIROLOGY DEPARTMENT (Division of Medical Microbiology) from page 85 to 89 Changed: OUT OF HOURS (EMERGENCY SERVICE) from page 89 to 93 Changed: ALPHABETICAL TEST DIRECTORY from page 92 to 96		
General	Changed logo in header from Saolta University Health Care Group to Health Service Executive	1	1
General	1. The Laboratory Medicine Service changed: "Galway University Hospital, Laboratory Medicine Department aims to act as a centre of service excellence, innovation and research to support the health care mission of the Saolta Health Care Group and the HSE regionally and nationally. " to: "Galway University Hospital, Laboratory Medicine Department aims to act as a centre of service excellence, innovation and research to support the health care mission of the HSE West and North West Region and the HSE nationally."	3	3
BIO	3. Use of the Laboratory UHG replaced with GUH in whole document		
BIO	2. General Information 2.3 Contact Information in Clinical Biochemistry Changed extention number for Ms. Karen Heverin from "8752" to "8644"	6	6
BIO	3. Use of the Laboratory 3.2 Requests to the Laboratory GP users: removed "if available", added: "If using addressograph labels on specimens please ensure that the label fits the specimen tube. Oversized labels cause specimens to get stuck on our automated instruments and will lead to sample processing delays."	14	15
BIO	3. Use of the Laboratory 3.4 Collection of Specimens General Guidelines removed: "or ammonia"	17	18
BIO	5. Transport of Specimens to the Laboratory added: "5.7 Community Hub Clinics This information is for use by the community hub clinics and other primary care clinics to provide information regarding stability and best practice for blood and urine sample storage. Sending Samples to the Laboratory 1. Specimens should ideally be sent to the laboratory as soon as possible (via the next transport on the day of sample collection). 2. If samples cannot be sent to the laboratory on the day of collection (e.g. venepuncture performed after the last courier pick-up):	23	25

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BIO	<p>5. Transport of Specimens to the Laboratory</p> <p>5.7 Community Hub Clinics</p> <p>added: "Biochemistry samples</p> <ul style="list-style-type: none"> • Biochemistry samples (serum gel or lithium heparin with gel) should be centrifuged and ideally stored refrigerated in a tube rack (2-8°C) • Biochemistry samples (fluoride oxalate) should not be centrifuged; these should be stored refrigerated (2-8°C) <p>**Note EDTA specimens for HBA1c must not be centrifuged and can be stored at room temperature until courier collection the next day</p> <ul style="list-style-type: none"> • Urine samples (random 'spot' and 24-hour samples) should be stored refrigerated (2-8°C) <p>Haematology samples</p> <ul style="list-style-type: none"> • EDTA samples for Full Blood Counts should not be centrifuged. These samples should ideally be stored refrigerated (2-8°C). • Citrate samples should not be centrifuged and must be stored at room temperature. One day old citrate samples are suitable for INR only and are not suitable for coagulation screen. <p>Coagulation screen requests must be received in the laboratory on the same day as sample collection.</p> <ul style="list-style-type: none"> • Haematinic samples (B12, Folate and Ferritin- serum gel) must be centrifuged and stored refrigerated in a tube rack (2-8°C). <p>Immunology samples</p> <p>Requests (for example Allergy or Autoimmunity screens -serum gel or lithium heparin with gel) should be centrifuged and ideally stored refrigerated in a tube rack (2-8°C)</p> <p>**Note EDTA specimens for Haemachromatosis, Genetics or Flow Cytometry MUST not be centrifuged and MUST be stored at room temperature until courier collection the next day</p> <p>Microbiology samples</p> <p>Sputum samples stored refrigerated (2-8°C) until courier pick up next morning</p> <p>3. Do not freeze blood samples unless specifically advised by the laboratory to do so. These samples should be sent to the laboratory the next morning. They need to reach the laboratory within 24 hours of being taken.</p> <p>4. Please note: samples should ideally not be taken on Fridays after the last courier pick- up as these samples will only reach the laboratory the next Monday.</p> <p>For more information, please contact the relevant laboratory or refer to their respective departmental websites/ sections of this laboratory user guide."</p>	24	25
BIO	<p>8. Clinical Biochemistry Department</p> <p>8.1 Department Profile</p> <p>corrected from "dependant" to "dependent""</p>	38	
BIO	<p>8. Clinical Biochemistry Department</p> <p>8.2 Clinical Advice and Service</p> <p>In "Clinical advice and interpretation is available from the Consultant Chemical Pathologist" added: "s and Principal Clinical Biochemists"</p>	37	40
BIO	<p>8. Clinical Biochemistry Department</p> <p>8.4 Biochemistry Tests</p> <p>in Test Profiles:</p> <p>"The test profiles defined in the following table are available to requesting doctors. Please use the profile names given below as these are the only profiles defined and recognised by the Clinical Biochemistry department. Non-specific and vague statements such as "biochemistry screen" or "bioprofile" should not be used. Terms such as cardiac enzymes, SMAC, SMA12, SMA, hormone profile, toxicology, tumour marker etc. are vague, undefined and unfocused and should not be used in when requesting tests.</p> <p>added: "Toxicology screen" is not sufficiently specific and should not be requested. Instead, urine drugs of abuse screening or testing for a specific drug / metal being queried, may be more appropriate."</p>	38	41
BIO	<p>8. Clinical Biochemistry Department</p> <p>Added Section 8.5 Reference Intervals</p>	N/A	43
BIO	<p>8. Clinical Biochemistry Department</p> <p>8.7 GP Specimens</p> <p>removed: "glucose,"</p>	40	43
BIO	<p>8. Clinical Biochemistry Department</p> <p>8.8 Add on Test Requesting</p> <p>added: "or provide to courier service on the next available courier run"</p>	40	43

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BIO	8. Clinical Biochemistry Department 8.13 Fluid Analysis added: "and staff can reference required standard operating procedures to provide information required."	41	44
BIO	8. Clinical Biochemistry Department 8.14 Near Patient Testing (NPT) replaced: " The development of an integrated laboratory connected and managed NPT service for critical care analysers, glucose meters, ketone meters and intra-operative PTH is progressing throughout the Galway University Hospitals. The NPT service is under the governance of the multidisciplinary Laboratory Medicine Directorate. " with "The development of an integrated laboratory-connected and managed NPT service for critical care analysers, glucose meters, ketone meters and intra-operative PTH is complete throughout the Galway University Hospitals. The NPT service is under the governance of the multidisciplinary Laboratory Medicine Directorate with a NPT Steering Committee available in the Hospital."	41	44
BIO	11. Immunology Department (Supraregional Service) 11.12 Guidelines relating to Genetic Referrals added: "Endocrine/Metabolic/select rare disease molecular genetics requests are processed in Clinical Biochemistry (e.g. Endocrine neoplasia/parathyroid/familial hypercholesterolaemia/Fabrys/Gauchers). Request forms are available on GUH Useful resources in the Biochemistry folder or alternatively, please contact a member of the clinical team for advice. "	70	72
BIO	15. Out Of Hours (Emergency Service) Ammonia Clinical Biochemistry changed from restricted to unrestricted	89	93
BIO	16. Alphabetical Test Directory Amino Acids: specimens added: ", received in the laboratory within 1 hour of venepuncture Comment: changed from "Full clinical information and reason for request must accompany specimen." to "Fully completed CHI at Temple Street Metabolic Request form (GUH Useful Resources) with clinical information and reason for request must accompany specimen."	95	99
BIO	16. Alphabetical Test Directory Amphetamine: See: " Toxicology Urine Drugs of Abuse Screen"	96	100
BIO	16. Alphabetical Test Directory added: "Apolipoprotein A1 Laboratory: Clinical Biochemistry: - referred to external laboratory for analysis Specimen: 7.0mL blood in a plain gel tube Turnaround: 1 week Report: On report form"	107	110
BIO	16. Alphabetical Test Directory added: "Apolipoprotein B Laboratory: Clinical Biochemistry: - referred to external laboratory for analysis Specimen: 7.0mL blood in a plain gel tube Turnaround: 1 week Report: On report form"	107	111
BIO	16. Alphabetical Test Directory Adrenaline/Noradrenaline/Dopamine split into Adrenaline (Paediatric) and Adrenaline Plasma)	95	97
BIO	16. Alphabetical Test Directory Cadmium (Urine) added: "Comment: Only send specimen to the laboratory during normal working hours."	115	119
BIO	16. Alphabetical Test Directory Calcium (Urine) added: "Comment: Only send specimen to the laboratory during normal working hours."	115	120

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BIO	16. Alphabetical Test Directory Cannabis: See: " Toxicology Urine Drugs of Abuse Screen"	116	120
BIO	16. Alphabetical Test Directory Catecholamines/Fractionated Metanephprines (Adrenaline/ Noradrenaline/ Dopamine/ Metanephprine/ Normetanphrine/ 3-methoxytyramine - Urine) added: "Comment: Only send specimen to the laboratory during normal working hours."	117	121
BIO	16. Alphabetical Test Directory Cerebrospinal Fluid – Culture / Microscopy in Comment: changed from "If Xantochromia is requested a CSF sample should be received in the laboratory wrapped in tinfoil. Culture reported only on CSFs with an elevated cell count" to "If Xanthochromia is requested a CSF sample should be received in the laboratory light protected/wrapped in tinfoil with accompanying 'CSF Xanthochromia request form' which is available in GUH Useful resources in the Biochemistry folder. Culture reported only on CSFs with an elevated cell count."	117	122
BIO	16. Alphabetical Test Directory Cholinesterase Phenotyping Specimen: removed: " 4.0 mL blood in a plain gel tube " added: "4.0 mL K+ EDTA blood"	120	125
BIO	16. Alphabetical Test Directory Cocaine See "Urine Drugs of Abuse Screen Toxicology "	122	126
BIO	16. Alphabetical Test Directory Copper (Urine) added: "Comment: Only send specimen to the laboratory during normal working hours."	124	128
BIO	16. Alphabetical Test Directory Cortisol (Urine) added: "Comment: Only send specimen to the laboratory during normal working hours."	124	129
BIO	16. Alphabetical Test Directory Creatinine (Urine) added: "Comment: Only send specimen to the laboratory during normal working hours."	125	130
BIO	16. Alphabetical Test Directory Creatinine Clearance added: "Comment: Only send specimen to the laboratory during normal working hours."	125	130
BIO	16. Alphabetical Test Directory Cyanide added: "Comment: Only send specimen to the laboratory during normal working hours."	127	132
BIO	16. Alphabetical Test Directory DHEA Sulphate in Comment: removed "Paula O'Shea", added: "Verena Gounden"	130	135
BIO	16. Alphabetical Test Directory Dopamine added: "Comment: Only send specimen to the laboratory during normal working hours."	131	135
BIO	16. Alphabetical Test Directory Ecstasy See "Urine Drugs of Abuse Toxicology Screen"	132	136
BIO	16. Alphabetical Test Directory Ethylene Glycol in Comment: removed "Paula O'Shea", added: "Verena Gounden"	133	138

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BIO	16. Alphabetical Test Directory Fabry's Disease in Specimen: removed: " Blood Spot Card obtained from Clinical Biochemistry " added: "Two 5.0 mL K+ EDTA blood, fully filled."	134	139
BIO	16. Alphabetical Test Directory Added: "5-HIAA (Serum) Laboratory: Clinical Biochemistry: - referred to external laboratory for analysis Specimen: Serum, ideally sample taken after overnight fast and important to counsel patient to avoid serotonin containing food prior to sampling (bananas/avocados/pineapple/kiwi/walnuts/tomatoes) and cough medicines) Turnaround: 10 working days Ref. Range: On report form"	146	151
BIO	16. Alphabetical Test Directory 5-HIAA (Urine) Added: "Comment: Only send specimen to the laboratory during normal working hours."	146	151
BIO	16. Alphabetical Test Directory Homocysteine in Laboratory: added: ": - referred to external laboratory for analysis" in Specimen: changed from: " 4.0 mL EDTA blood delivered to the laboratory within 60 minutes of collection " to: "4.0 mL EDTALithium Heparin blood placed on ice and walked over delivered to the laboratory within 60 minutes of collection. Specimens not placed on ice immediately may exhibit a 10 - 20% increase in homocysteine concentration. MMUH will also accept Sarstedt Monovette Hcy-Z tubes. With this sample type, ice is not required but samples must reach the laboratory within 8 hours of collection (or within 24h if refrigerated) for separation and freezing."	147	153
BIO	16. Alphabetical Test Directory Lactate Dehydrogenase (LDH) in Laboratory: added: ". PLEASE NOTE: LDH concentration can be increased significantly due to disruption of the red cell membranes when specimens are sent through the pneumatic chute (pod) system. It is recommended that where possible in-house samples requesting LDH should be delivered to the laboratory by hand." in Turnaround: changed from "1 hour" to "1hr"	153	159
BIO	16. Alphabetical Test Directory added: "Lead Laboratory: Clinical Biochemistry: referred to external laboratory for analysis Specimen: 7.0 mL blood in a Na+. EDTA trace element tube. Turnaround: 1 month Ref. Range: On report form"	153	159
BIO	16. Alphabetical Test Directory Lipoprotein (a) in Specimen: removed: " 7.0 mL blood in a plain gel tube ", added: "3.0 mL K+ EDTA blood" - back to "7.0mL blood in a plain gel tube" added: "Comment: Not routinely available, Clinical Details must be provided." - changed to "contact clinical team to discuss"	155	161
BIO	16. Alphabetical Test Directory Metanephrines (Metanephrine/Normetanphrine/3-methoxytyramine - Plasma) in Speciment: removed: " 1 x 5 mL: k+EDTA (Plasma) on ice patient fasting cannulated and supine for 30 minutes. Delivered to laboratory immediately. ", added: "1 x 3.0 ml EDTA adequately filled and taken on ice, delivered to the laboratory immediately. Please state on request form if patient is fasting and whether it is seated/supine sampling." in Comment: removed: " to the lab post phlebotomy. "	158	164
BIO	16. Alphabetical Test Directory Methadone See "Urine Drugs of Abuse Toxicology Screen"	158	164
BIO	16. Alphabetical Test Directory Molecular Genetics changed section from: 11.10 to 11.12	159	165

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BIO	16. Alphabetical Test Directory Morphine (Opiates) See "Urine Drugs of Abuse Toxicology Screen"	159	165
BIO	16. Alphabetical Test Directory removed: "Myoglobin" Laboratory: Clinical Biochemistry: referred to external laboratory for analysis Specimen: 7.0 mL blood in a plain gel tube Turnaround: 1 – 2 weeks Ref. Range: On report form"	162	-
BIO	16. Alphabetical Test Directory Opiates See "Urine Drugs of Abuse Toxicology Screen"	163	170
BIO	16. Alphabetical Test Directory Osmolality in Turnaround added: "Please note if urgent analysis required, contact must be made with Clinical Biochemistry by phone, otherwise samples received will be treated as routine."	164	170
BIO	16. Alphabetical Test Directory Osmolality (Urine) in Turnaround added: "Please note if urgent analysis required, contact must be made with Clinical Biochemistry by phone, otherwise samples received will be treated as routine."	164	170
BIO	16. Alphabetical Test Directory Phenytoin (Epanutin) in Turnaround: removed: "1 week", added: "Analysed during routine working hours"	166	172
BIO	16. Alphabetical Test Directory Phosphate (Urine) in Comment added: "Only send specimen to the laboratory during normal working hours."	166	173
BIO	16. Alphabetical Test Directory Porphyrin Screen in Specimen amended: from "All specimens must be protected from light. St. James's Hospital Porphyrin Request Form must be completed, available in GUH Useful Resources" to "All specimens must be protected from light. St. James's Hospital 'Porphyrin Request Form' must be completed and sent with sample, form available in GUH Useful Resources"	168	175
BIO	16. Alphabetical Test Directory Potassium (Urine) added: "Comment: Only send specimen to the laboratory during normal working hours."	169	176
BIO	16. Alphabetical Test Directory Proinsulin in Specimen: replaced: "4.0 mL fasting blood in a Li Heparin tube, send to the laboratory immediately " with "7.0mL blood in a plain gel tube, send to the laboratory immediately to allow separation and freezing within 30 minutes of venepuncture" added: "Comment Hypoglycaemia, spontaneous or whilst fasting, must first be established (confirmed by laboratory analysis)"	170	177
BIO	16. Alphabetical Test Directory Protein (Urine) added: "Comment: Only send specimen to the laboratory during normal working hours."	170	177
BIO	16. Alphabetical Test Directory Sodium (Urine) added: "Comment: Only send specimen to the laboratory during normal working hours."	176	183

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BIO	16. Alphabetical Test Directory added: "Teriflunomide (Leflunomide) Laboratory: Clinical Biochemistry – referred to external laboratory for analysis Specimen: Test kit must be pre-ordered with special tubes, consultation with clinical team required before test kits are ordered Turnaround: 1 – 3 weeks Ref. Range: On report form"	179	186
BIO	16. Alphabetical Test Directory removed: "Toxicology / Drug Screen Urine (Benzodiazepines, barbiturates, opiates, cocaine, propoxyphene, cannabis, amphetamine, methadone, phencyclidine, phenothiazine, alcohol) Laboratory: Clinical Biochemistry – referred to external laboratory for analysis Specimen: 10.0 mL fresh plain urine Turnaround: 1 – 3 weeks Comment: Parental consent required in patients <18 years old Report: On report form"	181	-
BIO	16. Alphabetical Test Directory added: "Toxicology Screen Vague request Should not be used on request forms. Instead, urine drugs of abuse screen or testing for a specific drug / metal of concern is more appropriate."	177	188
BIO	16. Alphabetical Test Directory Urea (Urine) added: "Comment: Only send specimen to the laboratory during normal working hours."	184	191
BIO	16. Alphabetical Test Directory Uric Acid (Urine) added: "Comment: Only send specimen to the laboratory during normal working hours."	184	192
BIO	16. Alphabetical Test Directory added: "Urine Drugs of Abuse Screen (benzodiazepines, barbiturates, opiates, cocaine, ecstasy, cannabis, amphetamine, methadone, alcohol) Laboratory: Clinical Biochemistry - referred to external laboratory for analysis Specimen: 10.0 mL fresh plain urine Turnaround: 2 – 3 weeks Comment: Parental consent required in patients <18 years old Report: Information provided on returned report"	185	193
BIO	16. Alphabetical Test Directory Vitamin B1 (Thiamine) in Specimen: removed: "10.0 mL blood in a Li. Heparin tube", added: "4.0 mL K+ EDTA blood on ice"	187	195
BIO	16. Alphabetical Test Directory Vitamin B2 (Riboflavin) in Specimen: replaced: "10.0 mL blood in a Li. Heparin tube" with "4.0 mL K+ EDTA blood on ice"	187	195
BIO	16. Alphabetical Test Directory Vitamin B6 (Pyridoxyl Phosphate) in Specimen: replaced: "10.0 mL blood in a Li. Heparin tube" with "4.0 mL K+ EDTA blood on ice"	187	195
BIO	16. Alphabetical Test Directory in Vitamin D removed: "(25 Hydroxy Vitamine D3 / Hydroxycholecalciferol)" in Laboratory: added: "(Requests for testing are subject to provision of appropriate clinical details on request form)" in Turnaround: removed: "2 – 3 weeks-", added: "2 working days"	188	195

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DAP	2. General Information 2.3 Contact Information in Histopathology, Cytopathology and Molecular Pathology added: "Dr Gian Raulli Consultant Pathologist Gian.Raulli@hse.ie Phone Ext: 3060 Dr Daniela Catargiu Consultant Pathologist Daniela.Catargiu@hse.ie Phone Ext: 3061 Guillermo Garcia-Diego Consultant Pathologist Guillermo.Garcia-Diego@hse.ie Phone Ext: 3444"	6	6
DAP	5. Transport of Specimens to the Laboratory 5.2 Internal Transport of Specimens amended: "Radioactive specimens for the Histopathology laboratory should be delivered to the dedicated radiation room in the Histopathology lab, placed behind the lead lined shield, and lab staff informed of its presence there." to "Radioactive specimens for the Histopathology laboratory should be delivered to the dedicated radiation area in the Histopathology lab cutup, placed behind the lead lined shield, and lab staff informed of its presence there."	21	23
DAP	6. Reporting Results 6.1 iLAB added: ", PUH "	24	27
DAP	9. Division of Anatomic Pathology 9.1 Division Profile added: "report interpretation"	43	46
DAP	9. Division of Anatomic Pathology 9.4 Histopathology Unbooked Frozen Sections removed: "(ext. 4589)", added: "Contact switch for consultant on call."	47	50
DAP	9. Division of Anatomic Pathology 9.4 Histopathology Immunofluorescence on Skin Biopsies changed: "If the biopsy is from outside University Hospital, Galway, the sample may be sent in a suitable transport medium (e.g. Michel's or Zeuss medium). Ensure the package is addressed to the Histology Lab, rather than the department. The specimen must be delivered directly to the Histology lab without delay." to "The sample may also be sent in a suitable transport medium (e.g. Michel's or Zeuss medium). If sending by post, ensure the package is addressed to the Histology Lab, rather than the department. The specimen must be delivered directly to the Histology lab without delay"	47	50
DAP	9. Division of Anatomic Pathology 9.4 Histopathology Renal Biopsies for Immunofluorescence and Electron microscopy added: "EM is not performed in GUH histology, referred out and EM reports interpreted on site in context of clinical information. "	47	50
DAP	9. Division of Anatomic Pathology 9.4 Histopathology Fresh Lymph Nodes query Lymphoma added: "Core biopsy of lymph nodes are not advised for Flow as sample adequacy cannot be guaranteed."	47	50
DAP	9. Division of Anatomic Pathology 9.4 Histopathology Radiation Specimen removed: "laboratory ", added: "area in the cutup"	48	51
DAP	9. Division of Anatomic Pathology 9.4 Histopathology Outside normal working hours removed: "to enable specimen reception." removed: "fixed", added: "placed in fixative solution (eg. Formalin)"	48	51

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DAP	<p>9. Division of Anatomic Pathology</p> <p>9.4 Histopathology</p> <p>Placentas</p> <p>replaced: "Placentas from labour ward should be placed in adequate formalin fixative and placed in the large size container. Ensure both requisition form and container are labelled with specimen Placenta and with patient demographics. Clinical details should always include gestational age at time of delivery, in addition to other relevant clinical information."</p> <p>with "Placentas from labour ward should be placed in adequate formalin fixative and placed in the large size container. Ensure that the placenta requisition form is used and clinical details are filled in. Ensure that the placenta requisition form, the container and container lid are labelled with specimen type -Placenta and with patient demographics. Clinical details should always include gestational age at time of delivery, in addition to other relevant clinical information as specified on the placenta requisition form. Monochorionic Twin placentas are recommended to be sent in fresh without formalin for injection studies. Notify Perinatal Pathologist on call if a specimen requiring injection studies is sent over fresh. For products of conception where there is a suspicion of the presence of a fetus, it is recommended to send fresh, only during the operational hours of the laboratory, as to not compromise the villous morphology for molar pregnancy assessment."</p>	48	51
DAP	<p>9. Division of Anatomic Pathology</p> <p>9.6 Molecular Pathology</p> <p>replaced: "Request forms for molecular assays are available from the Department of Histopathology, Cytopathology and Molecular Pathology, Ext 4078. NSCLC adenocarcinoma with no mutations detected negative by the in-house panel will be referred to Cancer Molecular Diagnostics in St James Hospital for NGS analysis with the Lungf Adenocarcinoma Focus assay."</p> <p>with "Request forms for molecular assays are available from the Department of Histopathology, Cytopathology and Molecular Pathology, Ext 4078. NSCLC adenocarcinoma with no mutations detected by the in-house panel will be referred to Cancer Molecular Diagnostics in St James Hospital for NGS analysis with the Lung Adenocarcinoma Focus assay."</p> <p>added: ". Melanoma panels with no mutations detected by the in house panel will be sent to St James Hospital for NGS analysis with the Melanoma Focus assay."</p>	50	53
DAP	<p>9. Division of Anatomic Pathology</p> <p>9.8 Turnaround Times</p> <p>for P01 All changed from 3-10 to 3-11</p> <p>P02 All GI changed from 3-10 to 3-11</p> <p>P03 Cancer resection cases changed from 7-10 to 7-11</p> <p>P04 Non cancer resection cases changed from 7-12 to 7-14</p>	52	55
DAP	<p>16. Alphabetical Test Directory</p> <p>removed: "DDISH, HER-2 Status Evaluation</p> <p>Laboratory: Department of Histopathology, Cytopathology and Molecular Pathology</p> <p>Specimen: Tissue samples already processed by the Histopathology Laboratory, on Request from Consultant Pathologist only.</p> <p>Comment; Testing available on request by Pathologist.</p> <p>Turnaround; 5 – 10 working days after request from Pathologist received</p> <p>Report: Integral part of Histopathology report issued by Division of Anatomic Pathology"</p>	130	-
DAP	<p>16. Alphabetical Test Directory</p> <p>Electron Microscopy</p> <p>in Specimen removed: "Tissue", added: "Fresh tissue required for referral to external laboratory."</p>	132	137
DAP	<p>16. Alphabetical Test Directory</p> <p>added: "HER-2 DDISH, Status Evaluation</p> <p>Laboratory: Department of Histopathology, Cytopathology and Molecular Pathology</p> <p>Specimen: Tissue samples already processed by the Histopathology Laboratory, on Request from Consultant Pathologist only.</p> <p>Comment; Testing available on request by Pathologist.</p> <p>Turnaround; 5 – 10 working days after request from Pathologist received</p> <p>Report: Integral part of Histopathology report issued by Division of Anatomic Pathology"</p>	145	150
DAP	<p>16. Alphabetical Test Directory</p> <p>Renal Biopsy for Electron Microscopy</p> <p>in Comment added: "Referred out for EM"</p>	173	180


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GBTE	<p>7. Blood and Tissue Establishment</p> <p>7.1 Department Profile</p> <p>added: "GBTE also has a Calibration Department INAB Accredited to ISO 17025."</p> <p>in: "Autologous and Allogeneic Serum Eye Drops (ASE's), Stem Cell Collections, " added: "CAR-T service"</p> <p>7.2 Services and Products available at GBTE</p> <p>in "GBTE stock the following blood components/products:"</p> <ul style="list-style-type: none"> • "LG Plasma" removed: (Octaplas) • "Fibrinogen" removed: 1gm (Riastap) • added: "Albumin" to "20% and Albumin 5%" • "Anti D Immunoglobulin" removed: ":-(Rhopylac)" • edited: Factor Concentrates (human & recombinant) e.g. factor VIIa (Novoseven), factor VIII (Electa), factor VIII/ human von Willebrands factor, recombinant vWF (Wilate) factor IX (Alprolix), Prothrombin Complex Concentrate <u>added</u>: "(PCC)" and <u>removed</u> "(Octaplex)." • Human Hemin (Normosang)— • Hepatitis B & Varicella Immunoglobulins • C1 esterase inhibitor (Berinerit P) • FEIBA Activated PCC 	26	29
GBTE	<p>7. Blood and Tissue Establishment</p> <p>7.3 Sample / Request Form Labelling Policy</p> <p>added: "Minimum and Maximum Sample Volume for Paediatric / Neonatal patients.</p> <p>The minimum volume for a Neonatal / Paediatric specimen is 1ml. If you are unable to obtain 1ml on a Paediatric / Neonatal specimen then you must contact the GBTE to discuss and the laboratory will further advise.</p> <p>The optimum sample volume for Neonatal / Paediatric specimens is 2ml. Please refrain from taking more than this amount in this patient cohort (cord bloods accepted).</p> <p>Minimum and Maximum Sample Volume for Adult patients</p> <p>The minimum volume for an Adult patient is as follows:</p> <ul style="list-style-type: none"> - Hospital, GP and Ante Natal specimens - minimum 2ml, maximum / optimal is to the fill line o If a patient has a complex serology the GBTE minimum volume is to the fill line and GBTE staff will advise if additional samples are required. - Referrals – contact the GBTE for the minimum and maximum volumes required <p>Specimen Labelling Requirements for Group & Hold / Crossmatch</p> <p>Please ensure prior to taking sample that the expiry date on the sample tube is in date, otherwise the sample will be rejected"</p>	29	32
	<p>7. Blood and Tissue Establishment</p> <p>7.17 Clinical Advice and Service</p> <p>In List of Consultant Haematologists in GUH added:</p> <p>* Dr Teresa Biotin Lopez * Dr Mark Gurney (arriving later in 2024 / early 2025)</p> <p>*Dr Jillian Coll * Dr Tracey Murphy</p> <p>removed: "Dr Abdelrahman Moutaz"</p>	34	38
GBTE	<p>7. Blood and Tissue Establishment</p> <p>7.18 Turnaround Time</p> <p>in the table added:</p> <p>Test: "Cross-Match (Urgent)* and *** and *****"</p> <p>Turnaround Time: "50 Minutes (please always phone these)"</p> <p>**** Please refer to sect. 7.6 Urgent Request Policy above also</p>	35	38

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HAEM	<p>2. General Information</p> <p>2.3 Contact Information</p> <p>In Haematology added:</p> <p>"Dr Tracy Murphy Consultant Haematologist Tracy.murphy5@hse.ie Phone Ext:3227</p> <p>Dr Jill Coll Consultant Haematologist Jill.Coll@hse.ie Phone Ext:8415</p> <p>Mr Mark Lyons Chief Medical Scientist Mark.lyons@hse.ie Phone Ext: 4514"</p> <p>removed: "Ms. Mary Kilcooley Chief Medical Scientist Mary.kilcooley@hse.ie Phone Ext: 4514"</p>	9	9
HAEM	<p>12. Haematology Laboratory</p> <p>12.2 Availability of Clinical Advice and Interpretation</p> <p>added: "Galway University hospital is a busy level 4 hospital with a wide range of specialities on site including Medicine, Surgery, Obstetrics, Paediatrics and Neonates. Consequently, the Consultant Haematologists at Galway University Hospital provide a clinical advisory service to a wide variety of specialities and General Practice.</p> <p>Haematology – Consultant Haematologists at Galway University Hospital provide clinical advice and interpretation of results to facilitate the diagnosis, treatment and management of haematological diseases to Galway University Hospital, Merlin Park University Hospital, Portiuncula University Hospital, Mayo University Hospital and Roscommon University Hospital. Regular multidisciplinary meetings are held to discuss complicated cases.</p> <p>General Practice- a large part of the clinical advisory service involves communication of results to General Practitioners. This is done using a variety of methods including clinical and interpretive comments on blood film reports, as well as phone calls if and when required. This is carried out by the laboratory registrars in conjunction with the Consultant Haematologist on laboratory duty or the Consultant Haematologist on Call, depending on urgency.</p> <p>Paediatrics- a clinical advisory service is provided to Paediatric patients. Emergency advice is provided on call in conjunction with Children’s Hospital Ireland where required.</p> <p>Neonatology- interpretation of normal and abnormal Haematology results, with advice on investigation of common problems including thrombocytopenia, neutropenia, anaemia and the diagnosis of bleeding disorders.</p> <p>Obstetrics- a Clinical Obstetric Haematology advice service is provided to patients in Galway University Hospital, Portiuncula University Hospital and Mayo University Hospital. This includes but is not limited to patients with thrombocytopenia, anaemia including hereditary spherocytosis, sickle cell disease, thalassaemia and bleeding disorders. Advice is also provided for Obstetric Haematology Patients with respect to the diagnosis and treatment of Neonatal Alloimmune Thrombocytopenia, HELLP, SLE and other conditions that may present in pregnancy.</p> <p>Interpretation of Coagulation investigations – Galway University Hospital is a Haemophilia Treatment Centre. Consultant Haematologists review all Factor Assays, von Willebrand’s screens and Platelet Aggregation results to ensure appropriate interpretation and clinical follow up where required. Any unexpected or clinically significant thrombophilia result is reviewed by a Consultant Haematologist and an interpretive comment applied."</p> <p>removed: "Clinical advice regarding the results of laboratory investigations is available from the Haematology medical team.-"</p>	70	75
HAEM	<p>12. Haematology Laboratory</p> <p>12.8 Haematology Specimen Rejection Policy</p> <p>in Turnaround times replaced: "Time of receipt of specimen " to "Time from receipt of specimen"</p>	72	78
HAEM	<p>16. Alphabetical Test Directory</p> <p>BCR-ABL</p> <p>in Comment added: CMD request form required. Prior approval by consultant Haematologist or registrar."</p>	107	114
HAEM	<p>16. Alphabetical Test Directory</p> <p>added: "CAL-R</p> <p>See MPN Panel"</p>	113	120
HAEM	<p>16. Alphabetical Test Directory</p> <p>FLT3 – Mutation</p> <p>in Comment added: "Requires CMD request form."</p>	134	141
HAEM	<p>16. Alphabetical Test Directory</p> <p>G6PD Quantitation</p> <p>in Laboratory removed: "Special Haematology, St James Hospital, Dublin 8", added: "Red Cell Lab. Kings College Hospital."</p>	137	144

Dept	Discription of Changes from Ver. 3.13 to 3.14 GUH LAB USER GUIDE	Page No. Ver. 3.13	Page No. Ver. 3.14
HAEM	16. Alphabetical Test Directory added: "Haematinics (Vitamin B12 + Serum Folate + Serum Ferritin) Laboratory: Haematology Specimen: 5.0 mL blood in a plain gel tube. Specimen to be received within 24hrs of phlebotomy for whole blood and 2 days if sample spun and refrigerated. Turnaround: 4 days Ref. Range: Refer to report"	139	146
HAEM	16. Alphabetical Test Directory Haemoglobin A2 removed: "Laboratory: Haematology — referred to St James Hospital. Specimen: 3.0 mL K3 EDTA blood, (1.0 mL Paediatric tubes are available). -Comment: Request form must give clinical details, transfusion history and ethnic origin of patient. Levels of HbA2 will be affected by the presence of iron deficiency. Turnaround: 4 weeks Ref. Range: On report form" added: "See Haemoglobinopathy Screen"	140	147
HAEM	16. Alphabetical Test Directory Haemoglobin F removed: "Laboratory: Haematology — referred to St James Hospital. Specimen: 3.0 mL K3 EDTA blood, (1.0 mL Paediatric tubes are available). -Comment: Request form must give clinical details, transfusion history and ethnic origin of patient. Levels of HbA2 will be affected by the presence of iron deficiency. Turnaround: 4 weeks Ref. Range: On report form" added: "See Haemoglobinopathy Screen"	140	147
HAEM	16. Alphabetical Test Directory Haemoglobin S removed: "Laboratory: Haematology — referred to St James Hospital. Specimen: 3.0 mL K3 EDTA blood, (1.0 mL Paediatric tubes are available). -Comment: Request form must give clinical details, transfusion history and ethnic origin of patient. Levels of HbA2 will be affected by the presence of iron deficiency. Turnaround: 4 weeks Ref. Range: On report form" added: "See Haemoglobinopathy Screen"	140	147
HAEM	16. Alphabetical Test Directory Haemoglobinopathy Screens in Laboratory added: "for patients greater than 16 years age. For patients less than 16 years, samples are referred to Crumlin Hospital" in Speciment changed: "EDTA sample required" to "1 EDTA sample plus 1 serum required" in Comments added: " Must request FBC and ferritin in addition to haemoglobinopathy for patients less than 16 years."	140	147
HAEM	16. Alphabetical Test Directory JAK 2 Mutation replaced: "Laboratory: Haematology: — referred to CMD Laboratory, St James Hospital, Dublin 8. Specimen: 3 x 3.0 mL K3 EDTA blood Comment: Test available Monday-Thursday only — Turnaround: 120 days Ref. Range: N/A" with "Please refer to MPN Panel"	150	157
HAEM	16. Alphabetical Test Directory added: "JAK -2 Exon 12 Please refer to MPN Panel"	150	157

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HAEM	16. Alphabetical Test Directory Methylmalonic Acid (Serum) in Specimen removed: " Frozen Serum x 2ml ", added: "5.0 mL blood in a plain gel tube. Specimen to be received within 24hrs of phlebotomy."	157	165
HAEM	16. Alphabetical Test Directory added: "MPL See MPN Panel"	158	166
HAEM	16. Alphabetical Test Directory added: "MPN Panel (includes Jak2, CAL-R, Jak2 Exon 12, MPL) Laboratory: Haematology: - referred to CMD Laboratory, St James Hospital, Dublin 8 Specimen: 3 x 3.0 mL K3 EDTA blood Comment: Test available Monday –Thursday only .CMD request form required. Prior approval by consultant Haematologist or registrar. Turnaround: 120 days Ref. Range: N/A"	158	166
HAEM	16. Alphabetical Test Directory Plasma Viscosity in Turnaround changed: " 1 day " to "5 days"	165	174
HAEM	16. Alphabetical Test Directory Prothrombin Gene Mutation in Comment added: "prior approval by consultant Haematologist or registrar."	169	178
HAEM	16. Alphabetical Test Directory Vitamin B12 in Comment added: "and refrigerated."	185	195
IMM	2. General Information Changed 2.7 Complaints to 2.8 Added 2.7 Data Protection "When the laboratory is required by law or authorized by contractual arrangements to release confidential information, the patient concerned will be notified of the information released, unless prohibited by law. Information about the patient from a source other than the patient (e.g. complainant, regulator) will be kept confidential by the laboratory. The identity of the source will be kept confidential by the laboratory and will not be shared with the patient, unless agreed by the source."	12	12
IMM	2. General Information 2.8 Complaints Added: "Additionally the patient advocacy service provides an independent, free and confidential service (www.patientadvocacyservice.ie). It provides information and support to people who want to make a formal complaint through the relevant complaints policy about the care they have experienced in a Public Acute Hospital."	12	12
IMM	5. Transport of Specimens to the Laboratory 5.1 General Guidelines Added: "For the transport of routine samples, a basic triple packaging system is recommended comprising of the following. 1. The primary watertight, leakproof sample container. 2. A secondary, watertight leakproof packaging with absorbant material to contain the primary sample 3. A third, outer layer of packaging to protect the sample from physical damage while in transit."	21	22

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IMM	<p>5. Transport of Specimens to the Laboratory</p> <p>5.5 General Practice, Primary Care and HSE Hospitals</p> <p>Added: "Specimens should ideally be sent to the laboratory as soon as possible (via the next transport on the same day as collection). If samples cannot be sent to the laboratory on the day of collection (e.g. venepuncture performed after last pick up), it is important to be aware of sample specific storage guidelines i.e. refrigeration vs Room temperature etc. If patient samples and materials are to be stored they should be stored in conditions that ensure the continuing integrity samples and in a manner that prevents cross contamination and deterioration. For queries related to sample storage refer to Section 16 or contact the relevant laboratory.</p> <p>Additionally it is important that when samples are transported from primary or secondary care that they are kept within the specified temperature range and are compliant with ADR regulations.</p> <p>If GP is organising a Taxi\GP Practice staff member drop off, GPs are to ensure samples transported to the Laboratory are in line with prevailing ADR transport regulations.</p> <p>Guidelines for Sample Centrifugation</p> <p>Please contact the laboratory for information on the correct procedure for centrifugation and ensure that manufacturer's guidelines for safe use are adhered to."</p>	23	24
IMM	<p>11. Immunology Department (Supraregional Service)</p> <p>Changed 11.2 Guidelines for Requesting Allergy Tests to 11.32</p> <p>Added: "11.2 Urgent Requests</p> <p>The Department of Immunology does not provide an emergency on-call service to its users; i.e. non-deferrable tests necessary for decisions regarding patient treatment. All samples received are processed as routine work however, requests may be deemed urgent if the requesting clinician contacts the department directly.</p> <p>Requests which may considered urgent include ANCA and GBM. All other requests marked 'urgent' are processed at the discretion of the Immunology department.</p> <p>The transport of the urgent specimen should be as promptly as possible. Specimens from outside hospital ideally should not be delivered to central reception. Samples from within the hospital should not enter the pneumatic chute system, as this may delay their delivery to the lab.</p> <p>The Department of Immunology accepts responsibility for the urgent request once it has been received at the laboratory"</p>	56	60/61
IMM	<p>11. Immunology Department (Supraregional Service)</p> <p>Changed 11.3 Guidelines for Requesting Tests for Autoimmune Disease to 11.4</p>	58	62
IMM	<p>11. Immunology Department (Supraregional Service)</p> <p>Changed 11.4 Endocrine Disorders to 11.5</p>	59	63
IMM	<p>11. Immunology Department (Supraregional Service)</p> <p>Changed 11.5 Dermatology to 11.6</p> <p>Changed 11.6 Autoimmune Rheumatic and Renal Diseases to 11.7</p>	59	64
IMM	<p>11. Immunology Department (Supraregional Service)</p> <p>11.7 Autoimmune Rheumatic and Renal Diseases</p> <p>In Extractable Nuclear Antigens (ENA) table removed all asterisks</p>	61	67
IMM	<p>11. Immunology Department (Supraregional Service)</p> <p>Changed 11.7 Neurology to 11.8</p>	61/62	65/66
IMM	<p>11. Immunology Department (Supraregional Service)</p> <p>Changed 11.8 Guidelines for Requesting Immunochemistry Tests to 11.9</p>	63	67
IMM	<p>11. Immunology Department (Supraregional Service)</p> <p>11.9 Guidelines for Requesting Immunochemistry Tests</p> <p>in Cryoglobulins added: "Guidance for collection of samples for Cryoglobulin:</p> <p>Collection of blood for cryoglobulin analysis MUST be pre-arranged directly with the Immunology laboratory. Pre-warmed sample collection tubes and a flask will be provided on request</p> <ul style="list-style-type: none"> - 10ml of blood collected into one red-topped clotted sample tube - 4 ml of blood collected into one purple-topped EDTA tube <p>All tubes MUST be kept between 37C – 41C in the thermos flask and be delivered to the laboratory IMMEDIATELY. Samples arriving in the lab below 37C or above 41C will be rejected.</p> <p>Note: Samples must not be taken from arterial or heparinized lines. Samples cannot be shared with other tests. Yellow top tubes are not recommended."</p>	65	69

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IMM	11. Immunology Department (Supraregional Service) Changed 11.9 Guidelines for Investigation of Immunodeficiency to 11.10	66	71
IMM	11. Immunology Department (Supraregional Service) Changed 11.10 Therapeutic Drug Monitoring to 11.11 Changed 11.11 Interferon Gamma Release Assay (IGRA/Quantiferon) to 11.12	67	72
IMM	11. Immunology Department (Supraregional Service) 11.12 Interferon Gamma Release Assay (IGRA/Quantiferon) Added: "Instructions for collection of samples for Quantiferon Analysis - Patient samples are collected using the Quantiferon-TB Gold Plus Blood Collection Tubes; A four tube set containing; Nil, TB1, TB2 and Mitogen tubes.  - Sample tubes are available on request from the Immunology laboratory and should be stored at room temperature. - Collect 1ml of blood into each tune in the following order: Grey, Green, Yellow, Purple. - Tubes must be filled to the black fill line (1ml). Under or over filling may lead to erroneous results. - Immediately after filling, shake tubes 10 times just firmly enough to ensure the entire inner surface of tube is coated in blood, to dissolve antigens on tube wall. Caution: Over-energetic shaking may cause gel disruption and could lead to abhorrent results. - Complete the Quantiferon TB (IGRA) Request form (available from the Immunology laboratory). - NOTE: It is important to record the date and time of collection. - NOTE: Samples must be received at the Immunology laboratory within 16 hours of collection Monday to Thursday only before 5pm."	68	73
IMM	11. Immunology Department (Supraregional Service) Changed 11.12 Guidelines relating to Genetic Referrals to 11.13	69	74
IMM	16. Alphabetical Test Directory Anti-Centromere Antibodies removed: "Specimen: 5.0 mL blood in plain gel tube Turnaround: 7 working days Report: Positive/Negative" added: "Comment: Refer to Connective Tissue Disease screen"	96	102
IMM	16. Alphabetical Test Directory Cryoglobulins In Specimen added: "Refer to Section 11.9 for detailed instructions on sample collection."	124	130
IMM	16. Alphabetical Test Directory HLA B27 Typing In Specimen changed: "5.0 mL EDTA blood" to "EDTA blood (to be kept at room temperature only)"	145	152
IMM	16. Alphabetical Test Directory HLA Typing In Specimen removed: "5.0 mL" In Comment added: "Eurofins Biomnis Consent form for HLA testing to be submitted with samples for (available at www.eurofins.ie/biomnis/test-information/test-request-forms)." 	145	152
IMM	16. Alphabetical Test Directory Huntington's Disease In Specimen removed: "5.0 mL"	146	153

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IMM	16. Alphabetical Test Directory Lymphocyte subsets CD3 (T cell) CD4 (T helper) CD8 (T cytotoxic) CD19 (B cell) CD16/56 (NK cell) In Specimen changed 5.0 ml to 3.0 ml and added: "NOTE: Sample MUST be kept at Room Temperature. " In Comment changed 48 hours to 72 hours	154	162
IMM	16. Alphabetical Test Directory Quantiferon Test (Interferon Gamma Release assay – IGRA) In Specimen added: ". Refer to Section 11.12 for instruction on sample collection."	170	179
Micro	2. General Information 2.3 Contact Information in Medical Microbiology swapped order between Prof. Martin Cormican Consultant Microbiologist martin.cormican@hse.ie Phone Ext: 4146 and Dr. Una Ni Riain Consultant Microbiologist Una.niriain@hse.ie Phone Ext: 3779	9	9
Micro	2. General Information 2.3 Contact Information in Virology swapped order between Dr. Una Ni Riain Consultant Microbiologist Una.niriain@hse.ie Phone Ext: 3779 and Dr. Deirbhile Keady Consultant Microbiologist deirbhile.keady@hse.ie Phone Ext : 2013	9	10
Micro	2. General Information 2.5 Laboratory Opening Hours removed: "Routine samples arriving after the stated deadlines will be processed on the next routine working day. An on-call system operates outside of normal hours for emergency work i.e. non-deferrable tests necessary for decisions regarding patient treatment. Refer to the 'On-Call/Emergency Service' section of this manual:"	11	12
Micro	3. Use of the Laboratory 3.2 Requests to the Laboratory in GP users: replaced: "GP users are requested to provide the 'Hospital Board Number' (BN) applicable to the patient on the request form when available" with "GP users are requested to provide the 'Hospital Board Number' (BN) applicable to the patient on the request form if available "	14	15
Micro	5. Transport of Specimens to the Laboratory 5.4 Pneumatic Tube System Transport in Non-transportable items removed: "Respiratory Specimens;"	22	23
Micro	13. Medical Microbiology Department 13.1 Department Profile Changed: "International Standard ISO/IEC 15189" to "International Standard ISO/IEC 15189:2022"	74	79
Micro	13. Medical Microbiology Department 13.4 Out of Hours Service On Saturday changed 12:30 to 12:00 Added: "- Urines - Swabs - Stools for viral screen - Sputa" in Specimens from ICU / HDU added: " A/E ,and urgent specimens from "	75	80
Micro	13. Medical Microbiology Department 13.4 Out of Hours Service In contact added: "After 00.00hrs the on call medical scientist is contacted via switchboard."	76	81
Micro	13. Medical Microbiology Department 13.4 Out of Hours Service In SARS COV-2 PCR testing Out Of Hours service changed: Saturday 13.00 to 12.00, Sunday 13.00 to 12.00	76	81

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Micro	13. Medical Microbiology Department 13.5 Guidelines for Requesting Microbiology Tests In Urines: Retention times changed 72-h to 1 week In Respiratory: specimens added: "(these specimens cannot be processed if they are >48 hours old from date of specimen collection)", in retention time changed 1-week to 3 weeks	76	81
Micro	13. Medical Microbiology Department 13.5 Guidelines for Requesting Microbiology Tests in General Collection and Transport Guidelines changed: "Do not submit CSF, glass blood culture bottles mycolytic or respiratory specimens to the laboratory via the "chute" transport system." to "Do not submit CSF, glass blood culture bottles or glass mycolytic blood culture bottles to the laboratory via the "chute" transport system."	77	82
Micro	13. Medical Microbiology Department 13.5 Guidelines for Requesting Microbiology Tests in Disinfect the culture bottle cap before transferring the sample changed collection to collecting	81	86
Micro	13. Medical Microbiology Department added: "13.7 Notifying Infectious Diseases for notifiable disease regulations The Laboratory is required to notify the Medical Officer of Health (MOH)/Director of Public Health (DPH) of certain diseases. This information is used to investigate cases thus preventing spread of infection and further cases. The information will also facilitate the early identification of outbreaks. It is also used to monitor the burden and changing levels of diseases, which can provide the evidence for public health interventions such as immunisation. Laboratory notifications are made electronically through the Computerised Infectious Disease Reporting System (CIDR). Notification to the Medical Officer of Health is a legal obligation and is not in contravention of data protection legislation. The Medical Officer of Health is required to treat records of infectious disease notifications in a confidential manner. under notifiable disease legislation to notify the Dept of Health and the Health Protection surveillance centre of notifiable disease detected in patient specimens.A full explanation is available on; https://www.hpsc.ie/notifiablediseases/notifyinginfectiousdiseases/ "	83	88
Micro	16. Alphabetical Test Directory Adenovirus / Rotavirus Antigen in Turnaround changed: "2 working days" to "1 working day"	90	96
Micro	16. Alphabetical Test Directory Amikacin In Turnaround added: "Cut off time (12.00) for same day referral."	93	99
Micro	16. Alphabetical Test Directory added: "Bile Fluid for culture Laboratory: Medical Microbiology Specimen: Sample in Plain universal Turnaround: 3 working days Report: Any Growth."	108	115
Micro	16. Alphabetical Test Directory Blood Culture in Turnaround added: "Further time may be needed for results to be returned by Reference laboratories in certain cases."	109	115
Micro	16. Alphabetical Test Directory in Broncho Alveolar lavage fluid (BAL)/ added: "Bronchial Washings" - Culture in Turnaround added: "All BALs are tested for TB using GeneXpert MTB/Rif ultra. Mycobacterial microscopy/culture is not performed unless clinical details state MOTT or NTM or are positive on gene Xpert."	111	118
Micro	16. Alphabetical Test Directory Carbapenemase Producing Enterobacteriaceae Screen in Turnaround added: "(A longer turnaround time is needed if sample is referred to the CPE Reference Laboratory)."	113	120

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Micro	16. Alphabetical Test Directory Cerebrospinal Fluid (Molecular analysis for Pathogens) in Turnaround changed: " 1-2 working days " to "1 week"	115	122
Micro	16. Alphabetical Test Directory Cerebrospinal Fluid – Viral PCR In Turnaround changed: " 1-2 working days " to "1 week"	115	122
Micro	16. Alphabetical Test Directory Cervical Swab in Turnaround changed: " 3 working days " to "4working days"	117	124
Micro	16. Alphabetical Test Directory Corneal Scrapings / Intraocular Fluids in Turnaround changed: " 3 days " to "5-7 days"	122	129
Micro	16. Alphabetical Test Directory "Creutzfeld-Jakob Disease (CJD, 14-3-3 Protein)" changed to "Creutzfeldt-Jakob Disease (CJD, 14-3-3 RT-Quic)"	123	130
Micro	16. Alphabetical Test Directory Added: "CSF- Cerebrospinal Fluid- Cryptococcal Antigen(CrAg) Laboratory: Medical Microbiology Specimen: CSF (150uls) Turnaround: 1 working day Result Cryptococcal Antigen(CrAg) Detected/Not Detected"	124	131
Micro	16. Alphabetical Test Directory Dermatophytosis in Comment changed: "If delay refrigerate @ room temperature. " to "If delay store at room temperature."	128	134
Micro	16. Alphabetical Test Directory Enterobius vermicularis (Sellotape slide for Pinworms) in Specimen added: "at night or early morning"	131	137
Micro	16. Alphabetical Test Directory Eye Swab in Turnaround added: " (4-5 days in case of Neisseria gonorrhoea culture in Neonatal Eye swabs <4weeks)"	132	139
Micro	16. Alphabetical Test Directory added: "Galactomannan on Respiratory samples Laboratory: Medical Microbiology Specimen: 3-5 mls of Untreated Sputum/Bal Comment: Not to be done routinely, all Galactomannan samples for analysis must be authorised by a Consultant Microbiologist before sending to St James's Hosp., Dublin. Turnaround: 2 weeks Report: Detected/ Not Detected"	137	144
Micro	16. Alphabetical Test Directory Genital Swab in Comment changed: " Endocervical swabs and Urethral swabs are routinely cultured for N. gonorrhoeae. All other specimens must specify N. gonorrhoeae on request if required. " to "Only Endocervical swabs, and Urethral swabs and IUCDs are routinely cultured for N. gonorrhoeae. All other specimens must specify N. gonorrhoeae on request if required."	138	145
Micro	16. Alphabetical Test Directory High Vaginal Swab (HVS) in Comment changed: " Endocervical swabs and Urethral swabs are routinely cultured for N. gonorrhoeae. All other specimens must specify N. gonorrhoeae on request if required. " to "Only Endocervical swabs, and Urethral swabs and IUCDs are routinely cultured for N. gonorrhoeae. All other specimens must specify N. gonorrhoeae on request if required."	144	151

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Micro	16. Alphabetical Test Directory Intra – Uterine Contraceptive Device (IUCD) in Comment chabged: " Only submit for culture with relevant clinical details. Endocervical swabs and Urethral swabs are routinely cultured for N. gonorrhoeae. All other specimens must specify N. gonorrhoeae on request if required. " to "Only submit for culture with relevant clinical details. Only Endocervical swabs, and Urethral swabs and IUDs are routinely cultured for N. gonorrhoeae. All other specimens must specify N. gonorrhoeae on request if required."	149	157
Micro	16. Alphabetical Test Directory Intravascular Cannulae - Culture in Specimen added: "(Tips >4cm will be rejected)."	149	157
Micro	16. Alphabetical Test Directory changed "JAK-2 Mutation" to "JAK 2 Mutation"	150	157
Micro	16. Alphabetical Test Directory Added: "Joint Aspirates -Culture Laboratory: Medical Microbiology Specimen: Fresh specimen in Sterile Universal Container Comment: delay of >2 hrs refrigerate at 2-8C Turnaround: 3 days Report: Any significant pathogen and sensitivities, if required."	150	158
Micro	16. Alphabetical Test Directory Legionella culture in Comment changed: " Routinely on ICU specimens. On request following approval by a Consultant Microbiologist on non-ICU specimens. Atypical pneumonia " to "Routinely on ICU BAL specimens, and sputum on request. Non-ICU specimens are on request following approval by a Consultant Microbiologist. Atypical pneumonia."	151	159
Micro	16. Alphabetical Test Directory Methicillin-Resistant Staph aureus (MRSA) in Turnaroudn changed " 3 working days. " to "4 working days."	157	165
Micro	16. Alphabetical Test Directory MSU – Midstream Urine in Turnaround added: "MSU culture is only routinely performed on samples from children <16 yrs, maternity patients, clinical details specifying patient is neutropenic, immunocomprised and patients with a microscopy result with a white cell count >20/cmm. However culture may be requested in certain circumstances following discussion with a Consultant Microbiologist"	158	167
Micro	16. Alphabetical Test Directory "Mycobacteria Testing " changed to "Mycobacteria Microscopy and Culture" in comment changed: " Culture is only performed on all tissue and fluid samples or where clinical details query MOTT. " to "Culture is performed on all tissue and fluid samples where clinical details query MOTT."	159	167
Micro	16. Alphabetical Test Directory Mycobacteria PCR - Xpert assayMycobacteria PCR - Xpert assay in Specimen removed " tissues ", added: "Fine Needle Aspirates/ Lymph Nodes" in Comment added: "	159	168
Micro	16. Alphabetical Test Directory Nose Swab in Report changed: " S. aureus isolated/Not isolated. " to "Relevant pathogens"	161	169

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Micro	16. Alphabetical Test Directory Pernasal Swab / Pertussis changed from: " Laboratory: Medical Microbiology Specimen: Pernasal swab (available from Medical Microbiology)- Comment: Delay > 2 h refrigerate @ 2-8OC. Turnaround: 10 days Report: Growth / No Growth of Bordetella sp" to: "Laboratory: Medical Microbiology – referred to Our Lady's Children's Hospital Crumlin [OLCHC] Specimen: Pernasal swab (available from Medical Microbiology). Delay > 2 h refrigerate @ 2-8OC. Turnaround: 10 days. Report: Bordetella sp isolated / not isolated"	163	172
Micro	16. Alphabetical Test Directory Pinworm in Specimen added: "at night or early morning"	164	173
Micro	16. Alphabetical Test Directory added: "Placenta Laboratory: Medical Microbiology Specimen: Fresh sample received in Cellular Pathology Sterile white specimen container Turnaround: 3 working days Report: Any significant pathogen and sensitivities if required."	164	173
Micro	16. Alphabetical Test Directory added: "Placental Surface Swabs Laboratory: Medical Microbiology Specimen: Paired charcoal swabs taken from both Foetal and Maternal side of the Placenta Turnaround: 3 working days Report: Any significant pathogen and sensitivities if required."	165	174
Micro	16. Alphabetical Test Directory Pneumocystis jiroveci investigation in Laboratory changed: " Medical Microbiology " to "Sent to NVRL subject to Medical staff approval."	166	175
Micro	16. Alphabetical Test Directory Sputum Culture in Turnaround added: " For Cystic Fibrosis patients 7 days"	175	184
Micro	16. Alphabetical Test Directory Swab - Culture in Turnaround added: " and 5 days in the case of Neisseria gonorrhoeae culture."	176	185
Micro	16. Alphabetical Test Directory Tear Duct - Culture in Turnaround changed: "3 working days" to "4 working days"	177	186
Micro	16. Alphabetical Test Directory Tissue/ Biopsy in Turnaround added: ", may be extended to 7 days on consultant request."	178	188
Micro	16. Alphabetical Test Directory Tobramycin in Laboratory added: "cut off time (12.00) for same day referral."	179	188

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Micro	16. Alphabetical Test Directory Tuberculosis Testing in Specimen added: "(testing of Early Morning Urines are not routinely processed and are strictly subject to Microbiology Consultant Approval)" in Comment changed: "Culture is only performed on all tissue and fluid samples or where clinical details query MOTT" to "Culture is performed on all tissue and fluid samples where clinical details query MOTT." in Report added: "species"	181	191
Micro	16. Alphabetical Test Directory Urethral Swab in Turnaround changed: "3 working days." to "4-5 working days"	182	192
Micro	16. Alphabetical Test Directory Urine Culture – Midstream Urine in Turnaround added: "MSU culture is only routinely performed on samples form children <16 yrs of age, maternity patients, clinical details specifying patient is neutropenic or immunocompromised, and patients with a microscopy result >20cmm. However culture may be requested in certain circumstances following discussion with a Consultant Microbiologist."	182	192
Micro	16. Alphabetical Test Directory Vaginal Swab in Comment changed: "Endocervical swabs and Urethral swabs are routinely cultured for N. gonorrhoeae. All other specimens must specify N. gonorrhoeae on request if required." to "Only Endocervical swabs Urethral swabs and IUCDs are routinely cultured for N. gonorrhoeae. All other specimens must specify N. gonorrhoeae on request if required. N gonorrhoeae testing on other sample is subject to Microbiology Consultant approval."	183	193
Mort			
PHLEB	2. General Information 2.3 Contact Information In Phlebotomy Departmnet: updated email adresses for: KaraM.burke@hse.ie from Kara.burke@hse.ie ; Maureen.keane@hse.ie from Maureen.keane@hse.ie removed: Bleep: 735 and Bleep: 835	10	10
	4. Phlebotomy Service in UHG: Wards (Excluding Paediatrics and Psychiatry) Mon-Friday 7:00 to completion changed to 7:00-13:30 Weekend (Emergency bloods only) Saturday - Sunday changed from 07:00-13:00 to 07:00-12:30 Bank Holiday Arrangements changed from 07:00-13:00 (excluding Christmas day) to 07:00 – 12:30 (excluding Christmas day) removed: Emergency Bleep the senior Phlebotomist 735/835 in Merlin park Universit Hospital: Wards (Hospital 1, 2, SCU, Hospital Ground, Units 1, 4, 6, 8) Mon - Friday changed from 07:00-13:30 to 07:00-13:30 removed: Orthopaedic Pre-assessment Clinic Monday – Wednesday 08:30 – 09:30 in Requirements for Patients Attending Phlebotomy: removed: Bleep Kara Burke 735 or Maureen Keane 835 for any queries. replaced with "Bleep Senior Phlebotomist 735/835 for any queries."	19	20
Viro	5. Transport of Specimens to the Laboratory 5.7 Community Hub Clinics added: "Virology samples On occasion where overnight storage is required, serum gel whether centrifuged or not, should ideally be stored refrigerated (4-8°C). Note: 8 ml K2E K2EDTA separator specimens for Viral Load testing must be received in the laboratory within 24 hours post venepuncture and after discussion with laboratory staff. Samples received > 24 hours are not processed. Telephone to discuss if required."	23	25
Viro	14. Virology Department 14.4 Add on Test Requesting removed: "Additional testing will only be performed on receipt of a written request.", added: "Verbal requests for any Virology tests are now accepted. There is no longer a need to send another request form with the test request on it, to the laboratory. This includes HIV and , Hepatitis requests."	84	89

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Viro	14. Virology Department 14.5 Virology Tests SARS CoV-2 PCR Testing and Extended Viral Panel Testing removed: "the Virology Laboratory (Ext4398)", added: "Laboratory stores (labstores.uchg@hse.ie)"	85	90
Viro	14. Virology Department 14.5 Virology Tests CMV Detection added: "Urine for DEAFF test must be received in the laboratory before 11.00 am Monday to Thursday to allow dispatch to the NVRL on the day of collection."	85	90
Viro	14. Virology Department 14.5 Virology Tests Molecular Virology Specimens (PCR, Viral Load, Genotype) replaced: "Blood specimens for molecular virology testing should be collected in 8ml Greiner K2EDTA tubes only and should arrive in the Virology Laboratory within three hours of phlebotomy and be given directly to a staff member." with "Blood specimens for molecular virology testing should be collected in 8ml Greiner K2EDTA tubes only and should arrive in the Virology Laboratory within 24 hours of phlebotomy and be given directly to a staff member. "	85	90
Viro	14. Virology Department 14.5 Virology Tests Urine Specimens removed: "For DEAFF test see 5.2 above.", added: "Urine for DEAFF test must be received in the laboratory before 11.00 am Monday to Thursday to allow dispatch to the NVRL on the day of collection."	86	91
Viro	14. Virology Department 14.5 Virology Tests Changed: "Influenza and RSV Detection" to "Influenza A/B, and RSV Detection" changed: "During the season, Influenza A and B, and RSV A and B detection is available after prior approval by a Consultant Microbiologist." with "Influenza A and B, and RSV detection is available."	86	91
Viro	16. Alphabetical Test Directory in Amoebic antibodies (Entamoeba histolytica; E. dispar; Amoebic liver abscess) added "State clinical details and onset date. Serology may take up to 2 weeks to become positive in amoebic liver abscess. Note that faecal microscopy/sample should be testedPCR for E. histolytica should be tica in performed for suspected intestinal amoebiasis/amoebic dysentery" Report: Detected/Not Detected with comment if detected	91	100
Viro	16. Alphabetical Test Directory Anti-Streptolysin-O (ASO) Added: "Titre" Added: "Test indications: Suspected post-streptococcal condition e.g. glomerulonephritis, rheumatic fever, PANDAS suspected. "	103	108
Viro	16. Alphabetical Test Directory Aspergillus fumigatus precipitins Added"Test indications: suspected aspergillosis in immunocompetent patients (e.g. allergic bronchopulmonary aspergillosis (ABPA), aspergilloma, chronic necrotising aspergillosis, aspergillus sinusitis). "	101	111
Viro	16. Alphabetical Test Directory Avian precipitins (Bird Fancier's disease) Added: "Lung (BFL)" Added: "(investigation of ? BFL with risk factors) "	102	112
Viro	16. Alphabetical Test Directory Bartonella henselae PCR Added "(Cat scratch disease)" eport: Detected/Not detected	107	113

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Viro	16. Alphabetical Test Directory added: "Bartonella Serology Laboratory: Virology: -referred to Rare & Imported Pathogens Laboratory (RIPL) Porton Down, Salisbury. Specimen: Serum Comment: By prior arrangement with Microbiology Medical Staff. Turnaround: 2-3 weeks Report: Detected/Not detected"	107	113
Viro	16. Alphabetical Test Directory Added "BK (Polyomavirus) PCR Laboratory: Virology: - referred to NVRL Specimen: EDTA whole blood; Urine Comment: Post-transplant surveillance of renal transplant and haemopoietic stem cell recipients. Turnaround: 2 – 3 weeks Report: Detected/not detected. Quantitative viral load available."	108	115
Viro	16. Alphabetical Test Directory Bordetella pertussis antibodies Added "May be used to provide evidence of vaccination or past infection; test does not determine immunity to B. pertussis. Send at least 14 days after onset of persistent cough." Report: Detected/not detected.	110	117
Viro	16. Alphabetical Test Directory Borrelia burgdorferi antibodies (Lyme Disease) Added "Specimens which are reactive at GUH are referred to the PHE, Rare and Imported Pathogens Laboratory (RIPL), Porton Down for further testing and a final report" Added "Clinical details essential. Samples without clinical details will NOT be tested but stored pending same. Patients with classical rash of erythema migrans are treated on clinical grounds without serological testing. If testing indicated, take samples 4-6 weeks after symptom onset and please state: If the patient had a tick bite and the date of the tick bite; Date of onset of symptoms and details of symptoms; If neurological and/ or ophthalmic symptoms"	110	117
Viro	16. Alphabetical Test Directory Brucella Antibodies Added "State clinical symptoms, travel and exposure history. Antibody response may take up to 6 weeks to develop"	111	118
Viro	16. Alphabetical Test Directory Cat Scratch Disease Antibodies changed: "See "Bartonella henselae PCR"" to "See "Bartonella henselae Serology""	114	121
Viro	16. Alphabetical Test Directory Chlamydia pneumoniae Serology in Laboratory removed: "The National Virus Reference Laboratory, Dublin."	117	124
Viro	16. Alphabetical Test Directory Chlamydia psittaci Antibodies in Turnaround changed: "2—5 working days" to "1-2 weeks"	117	124
Viro	16 Alphabetical Test Directory Added Chlamydia pneumoniae/C. psittaci/C. abortus PCR Laboratory: Virology: -referred to UKHSA respiratory and vaccine preventable bacteria reference unit (RVPBRU) Colindale Specimen: BAL Comment: Serological testing in which acute and convalescent blood samples are tested for antibodies has historically been used for psittacosis diagnosis but is no longer considered best practice and has been replaced by respiratory tract PCR diagnosis. Clinical details and risk factors required for referral. Turnaround: 1-2 weeks Report: Detected / Not Detected	118	124

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Viro	16 Alphabetical Test Directory Added Chlamydia trachomatis antibodies. Laboratory: Virology. Referred to HPA, Bristol, Specimen: 7ml blood in a plain gel tube Comment: Infertility testing in female patients only. This test is not useful for the diagnosis of symptomatic genital infections but may assist in the diagnosis of tubal factor infertility. If current C. trachomatis infection is suspected please send a specimen for PCR testing. Turnaround: 1-3 weeks Report: Detected / Not Detected	118	124
Viro	16. Alphabetical Test Directory Chlamydia trachomatis (PCR) in Laboratory added: "swab or urine (first void in an Abbott Multicollect),"	118	124
Viro	16. Alphabetical Test Directory Conjunctivitis (Chlamydia trachomatis) Added "See Chlamydia trachomatis (CT) Nucleic Acid Amplification Test (NAAT) multiplex PCR "	121	128
Viro	16. Alphabetical Test Directory Coxiella burnetii IgM Antibodies (Q fever) in Laboratory added: "and"	122	129
Viro	16. Alphabetical Test Directory Coxiella burnetii IgM Antibodies (Q fever) Added "Comment: Include date of onset of symptoms and clinical details. If there is a clinical suspicion of chronic infection, please discuss with a consultant microbiologist."	122	129
Viro	16. Alphabetical Directory Removed Cytomegalovirus (CMV DEAFF) Removed Cytomegalovirus (CMV – PP65 Antigenaemia)	127	133
Viro	16. Alphabetical Test Directory Cytomegalovirus (CMV – PCR) Specimen: 8ml K2EDTA Greiner tube; Tissue biopsies; Urine. Specimens must be delivered directly to a staff member in the Virology laboratory within 24 hours of phlebotomy. Comment: Clinical details essential. Surveillance of patients at risk of active CMV infection / disease, monitoring response to immune suppression dose reduction and/or antiviral therapy, or suspected active/primary CMV infection. Organ or BMT recipient, immunocompromised host, congenital CMV infection (CMV hearing, code "MCMH")Specimens must be delivered directly to a staff member in the Virology laboratory within 24 hours of phlebotomy. Request must be approved by the Microbiology Medical Staff.	127	133
Viro	16. Alphabetical Test Directory Cytomegalovirus (CMV) IgG Antibody Laboratory: Virology Specimen: 7.0 ml blood in a plain gel tube Comment: Please provide clinical details re symptoms, pregnancy, immunosuppression. IgG detection signifies previous CMV infection. Further testing e.g. IgM, avidity, PCR testing may be indicated in some instances pending clinical discussion. Turnaround: 1-2 days Report: Detected / Not Detected	127	133
Viro	16 Alphabetical Test Directory Cryptococcal Antigen Added "Infection with Cryptococcus neoformans typically associated with immunosuppression. Please state clinical details, symptoms, date on onset" Turnaround: 1 week unless discussed as urgent test	127	133
Viro	16 Alphabetical Test Directory Dengue Fever Antibodies Added "– Must discuss with consultant Microbiologist" Available only if clinical details and travel historys provided.	129	135

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Viro	16. Alphabetical Test Directory Added: "Epstein – Barr Virus (EBV) PCR Laboratory: Virology: - referred to the National Virus Reference Laboratory, Dublin Specimen: 8ml K2EDTA Greiner tube Comment: Specimens must be delivered directly to a staff member in the Virology laboratory within 24 3 hours of phlebotomy. Request must be approved by the Microbiology Medical Staff. Turnaround: 1 – 3 weeks Report: Detected/Not Detected"	131	138
Viro	16. Alphabetical Test Directory Enterovirus (PCR) Specimen: Added "; (Stool, respiratory secretions, blood (8ml K2EDTA Greiner tube), vesicular fluid" Comment Added: Serology is NOT available. Please state clinical details; date of onset and if recent travel	131	138
Viro	16 Alphabetical Test Directory Erythrovisu changed to Parvovirus	140	
Viro	16. Alphabetical Test Directory Hepatitis B DNA / Viral Load in Comment changed: " 3 hours " to "24 hours" in Report added: "Not detected/ Viral Load"	142	149
Viro	16. Alphabetical Test Directory Hepatitis C PCR / Viral Load / Genotype in Comment changed: "3 hours" to: "24 hours" in Report added: "Not detected/"	143	150
Viro	16. Alphabetical Test Directory Hepatitis D Antibody in Comment changed: " Request must be approved by Consultant Microbiologist " to "Only sent if patient is Hepatitis B surface antigen positive"	143	1505
Viro	16. Alphabetical Test Directory Herpes simplex virus - PCR removed: " Comment: On Consultant Microbiologist request "	143	151
Viro	16. Alphabetical Test Directory Human Immunodeficiency (HIV) PCR / Viral Load / Genotype in Specimen removed: " (Ref: 455040) " in Comment changed: " Specimen must be delivered to a Virology staff member within 3 hours of phlebotomy. Greiner tubes should be used to collect both adult and paediatric samples. " to "Specimen must be delivered to a Virology staff member within 24 hours of phlebotomy."	145	153
Viro	16. Alphabetical Test Directory Influenza A virus removed: " Comment: Seasonal availability only "	148	156
Viro	16. Alphabetical Test Directory Influenza B virus removed: "Comment: Seasonal availability only"	148	156

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Viro	16. Alphabetical Test Directory Added: "Mycoplasma genitalium PCR Laboratory: Virology Specimen: Abbott Multicollect swab or urine (first void in an Abbott Multicollect), preferably delivered to the laboratory within 24 h of collection. Comment: Available only in very specific cases and following prior arrangement with a Consultant Microbiologist Turnaround: 10 working days Report: Not detected, if negative. A provisional report will be issued on any sample giving presumptive detected findings on initial testing. These specimens are referred to Colindale for further testing and a final report."	160	168
Viro	16. Alphabetical Test Directory Neisseria gonorrhoeae PCR in Specimen added: "or urine (first void in an Abbott Multicollect),"	160	169
Viro	16. Alphabetical Test Directory Respiratory Syncytial Virus removed: "Comment: Seasonal availability only"	171	180
Viro	16. Alphabetical Test Directory Strongyloides antibodies removed: "Ref. Range: N/A"	175	184
Viro	16. Alphabetical Test Directory added: "Trichomonas vaginalis PCR Laboratory: Virology Specimen: Abbott Multicollect swab or urine (first void in an Abbott Multicollect),swab or urine, preferably delivered to the laboratory within 24 h of collection. Comment: Available only upon request in very specific cases.in very specific cases and following prior arrangement with a Consultant Microbiologist Turnaround: 10 days Report: Not detected/ Detected weak / Detected"	180	189
Viro	16. Alphabetical Test Directory Zika added: "Report: Full report received from referral laboratory"	187	197