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| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |



**THE  
ROTUNDA  
HOSPITAL**  
DUBLIN

## USER MANUAL

|                            |  |
|----------------------------|--|
| <b>Telephone:</b>          | +353 - 1 – 8171739 / 8730700               |
| <b>Fax:</b>                | +353 – 1 – 8720919                         |
| <b>Director:</b>           | Prof. Richard Drew (rdrew@rotunda.ie)      |
| <b>Laboratory Manager:</b> | Mr John O'Loughlin (joloughlin@rotunda.ie) |
| <b>Website</b>             | www.rotunda.ie                             |

### EMERGENCY CONTACT FOR THE LAB STAFF ON CALL

(From 6pm- 8am; Mon - Fri, from 12.30 pm Sat, all day Sun /Bank holiday Monday): **BLEEP 538**

ON CALL MOBILE **086-2626101**

ON CALL BEDROOM **Ext 1571 and 1671**

**When completing requests please give as much clinical detail as possible.**

**PLEASE NOTE:** patients may not request laboratory tests from the laboratory. This must be performed by the requesting clinician. If a patient wishes to access any healthcare record they must contact the freedom of information office: foi@rotunda.ie.

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This manual primarily documents information applicable to medical/clinical users and it also beneficial to patients and those looking for information with respect to the laboratory service particularly with regard to:

- providing an overview of the department of laboratory medicine
- contacting staff for technical and advisory advice
- identifying tests available during routine hours, on Saturday mornings and during out of hours service
- the collection, transport additional requests (add-ons)
- direct patients and healthcare providers acting on the patient behalf how to access patient healthcare records

WI-GEN-0001 Quality Policy and the following documents complement the manual:

**Test Repertoire - these tables provide information on sample requirements, tests type available, turnaround times and accreditation status.**

LF-GEN-0066 Biochemistry Active Test Table

LF-GEN-0067 Blood Transfusion Active Test Repertoire Table

LF-GEN-0069 Histology Active Test Repertoire

LF-GEN-0068 Haematology Active Test Repertoire

LF-GEN-0070 Microbiology Active Test Repertoire

LF-GEN-0071 Andrology Active Test Repertoire

LF-GEN-0076 POCT Active Test Table Repertoire

#### **\*Blood Tube Guides**

LI-GEN-0006 Quick Pick Tube Guide

LI-GEN-0002 Blood Collection Tube Guide

LI-GEN-0005 Paediatric Tube Guide

EX-MICRO-0319 Recommended Swab Type

*\*Mainly for contingency if electronic chart is down.*

#### **Ordering of Tests on the MN-CMS**

LI-GEN-0016 MN-CMS Quick Reference Guide for the Department of Laboratory Medicine & LI-GEN-0017 MN-CMS Quick Reference Guide for Blood Transfusion.

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Current editions are available on the hospital websites and hospital Q-Pulse. They are held as standalone documents to allow quick review and issuing when changes are made which need to be advised to the users without delay.

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| Edition No. 15  | Laboratory Procedure                 |   |

## CHANGES TO THIS EDITION

|                            |                            |
|----------------------------|----------------------------|
| <b>OLD EDITION NO.: 14</b> | <b>NEW EDITION NO.: 15</b> |
|----------------------------|----------------------------|

| <b>Section No.</b> | <b>Amendment</b>  |
|--------------------|---|
| 1                  | Updated to clarify target user of this manual and how patients can seek information.                                    |
| 2                  | Details expanded to include impartiality policy, risk management, laboratory incident policy, open disclose and ethics. |
| 3                  | Main changes to the service since June 2025 documented.   |
| 4.1                | New section detailing the consent policy.   |
| 4.2                | Updated with names of key staff members.  |
| 4.3.2              | Details on how to recognise changes to reference ranges added.  |
| 7                  | Updated to include where paper request forms can be located.  |
| 7.3                | Cross reference to RF-HAEM-0002 Thrombophilia Request Form added.   |
| 7.4.2              | Elocata replaced with Altuvoct.   |
| 13                 | New section on Data Protection.   |

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| Edition No. 15  | Laboratory Procedure                 |   |

## TABLE OF CONTENTS

|  |           |
|--|-----------|
| <b>1. INTRODUCTION.....</b>  | <b>8</b>  |
| <b>2. QUALITY STATEMENT .....</b>                                  | <b>9</b>  |
| <b>3. MAIN CHANGES TO THE LABORATORY SERVICE .....</b>             | <b>11</b> |
| <b>4. LABORATORY LOCATION AND SERVICES .....</b>                   | <b>12</b> |
| 4.1 CONSENT.....   | 13        |
| 4.2 SCIENTIFIC AND CLINICAL ADVICE .....                           | 13        |
| 4.3 ROUTINE TESTS AVAILABLE PER DEPARTMENT .....                   | 15        |
| 4.3.1 <i>Turnaround Times</i> .....                                | 15        |
| 4.3.2 <i>Reference Ranges</i> .....                                | 15        |
| 4.3.3 <i>Referral Test Reference Ranges</i> .....                  | 16        |
| 4.3.4 <i>CSF Reference Ranges</i> .....                            | 16        |
| 4.3.5 <i>Post Mortem Examination</i> .....                         | 16        |
| 4.3.6 <i>Post Mortem Examination Reports</i> .....                 | 18        |
| 4.3.7 <i>Placental Examination</i> .....                           | 18        |
| 4.4 TESTS AVAILABLE ON SATURDAY MORNING .....                      | 18        |
| 4.4.1 <i>Biochemistry/Endocrinology Tests</i> .....                | 18        |
| 4.4.2 <i>Blood Transfusion</i> .....                               | 19        |
| 4.4.3 <i>Haematology Tests</i> .....                               | 19        |
| 4.4.4 <i>Microbiology Tests</i> .....                              | 19        |
| 4.4.5 <i>Histopathology and Cytopathology</i> .....                | 19        |
| 4.4.6 <i>Post-Mortem Examinations</i> .....                        | 19        |
| 4.5 ON CALL SERVICE .....  | 20        |
| 4.6 TESTS PERFORMED ON-CALL .....                                  | 21        |
| 4.6.1 <i>Biochemistry</i> .....                                    | 21        |
| 4.6.2 <i>Blood Transfusion</i> .....                               | 21        |
| 4.6.3 <i>Haematology</i> .....                                     | 21        |
| 4.6.4 <i>Microbiology</i> .....                                    | 21        |
| 4.7 POCT (POINT OF CARE TESTING) .....                             | 22        |
| <b>5. PREPARATION OF THE PATIENT.....</b>                          | <b>23</b> |
| 5.1 COLLECTING URINE SAMPLES FOR ANALYSIS – BASIC PRINCIPLES ..... | 23        |

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
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| Edition No. 15  | Laboratory Procedure                 |   |

|   |           |
|---|-----------|
| <b>6. COLLECTION AND TRANSPORT OF SPECIMENS.....</b>  | <b>23</b> |
| 6.1 POSITIVE IDENTIFICATION OF THE PATIENT (PPID) .....   | 24        |
| 6.1.1 <i>In-Patients</i> .....  | 24        |
| 6.1.2 <i>Outpatients</i> .....  | 25        |
| 6.1.3 <i>Positive Patient Identification of Neonates</i> .....  | 25        |
| 6.1.4 <i>Paediatric Out-patients</i> .....  | 25        |
| 6.2 COLLECTION OF BLOOD SAMPLE .....  | 26        |
| 6.2.1 <i>Action to be taken if there are Patient Problems</i> .....   | 26        |
| 6.3 DISPOSAL OF MATERIALS USED IN SAMPLE COLLECTION.....  | 26        |
| 6.4 CONTAINERS.....   | 26        |
| 6.4.1 <i>Minimum Patient Data required on a Specimen Container (except for Blood Transfusion and Histology)</i> ..... | 26        |
| 6.4.2 <i>Patient Data Required On Specimens for Histology</i> .....   | 27        |
| 6.4.3 <i>Patient Data Required on Specimens for Blood Transfusion</i> .....   | 28        |
| 6.5 SPECIMENS RECEIVED FROM OUTSIDE USERS.....  | 28        |
| <b>7. REQUESTING TESTS.....</b>   | <b>30</b> |
| 7.1 GENERAL REQUESTS (NOT BLOOD TRANSFUSION/THROMBOPHILIA) .....  | 31        |
| 7.1.1 <i>Requesting a Test</i> .....  | 31        |
| 7.1.2 <i>Specimens</i> .....  | 32        |
| 7.2 MICROBIOLOGY REQUESTS .....   | 33        |
| 7.3 THROMBOPHILIA REQUESTS .....  | 33        |
| 7.4 BLOOD TRANSFUSION REQUESTS .....  | 34        |
| 7.4.1 <i>Request</i> .....  | 34        |
| 7.4.2 <i>Request for Blood/Blood Products</i> .....   | 34        |
| 7.5 HISTOLOGY REQUESTS .....  | 35        |
| 7.6 POST MORTEM EXAMINATION.....  | 36        |
| 7.6.1 <i>Placenta Request Form</i> .....  | 36        |
| <b>8. QUALITY OF SERVICE.....</b>   | <b>37</b> |
| <b>9. SPECIMEN/ HEALTHCARE RECORD RETENTION POLICY .....</b>  | <b>40</b> |
| 9.1 SPECIMENS AND PREPARATIONS.....   | 41        |
| 9.2 RESIDUAL SAMPLES FOR RESEARCH PURPOSES .....  | 42        |
| 9.3 POST-MORTEM MATERIAL .....  | 43        |
| <b>10. REPORTS .....</b>  | <b>43</b> |

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
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| Edition No. 15  | Laboratory Procedure                 |   |

|            |  |           |
|------------|--|-----------|
| 10.1       | ISSUING OF REPORTS DURING NORMAL OPENING HOURS.....                                  | 44        |
| 10.2       | ISSUING OF REPORTS ON-CALL .....   | 44        |
| 10.3       | WARD ACCESS TO LABORATORY RESULTS.....   | 45        |
| 10.4       | CLINICAL ADVICE AND INTERPRETATION ON REPORTS.....                                   | 45        |
| <b>11.</b> | <b>TIME LIMITS FOR REQUESTING ADDITIONAL EXAMINATIONS.....</b>                       | <b>46</b> |
| 11.1       | REQUESTING ADDITIONAL EXAMINATIONS (VERBAL REQUESTS).....                            | 47        |
| 11.2       | REQUESTING REPEAT EXAMINATIONS.....  | 48        |
| <b>12.</b> | <b>PROBLEMS / COMPLAINTS/SUGGESTIONS/FEEDBACK.....</b>                               | <b>48</b> |
| 12.1       | COMPLAINTS.....  | 48        |
| 12.2       | SUGGESTIONS / FEEDBACK.....  | 49        |
| <b>13.</b> | <b>DATA PROTECTION .....</b>   | <b>49</b> |
| <b>14.</b> | <b>MANAGEMENT OF INCIDENTS THAT COULD HAVE OR RESULTED IN<br/>PATIENT HARM .....</b> | <b>50</b> |
|            | OPEN DISCLOSURE .....  | 50        |
| <b>15.</b> | <b>REPertoire OF TESTS.....</b>  | <b>50</b> |
| <b>16.</b> | <b>ORDERING TESTS ON MN-CMS.....</b>   | <b>50</b> |
| <b>17.</b> | <b>APPENDICES .....</b>  | <b>51</b> |

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
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| Edition No. 15  | Laboratory Procedure                 |   |

## 1. INTRODUCTION

Bartholomew Mosse, surgeon and man-midwife founded the Rotunda Hospital in 1745. Originally known as The Dublin Lying-In Hospital, it was the first maternity training hospital of its kind.

The Rotunda has provided an unbroken record of service to women and babies since its foundation in 1745 and has occupied its present premises since 1757.

Towards the end of the nineteenth century, the importance of the new speciality of pathology became apparent in Dublin. The first pathology laboratory opened in the Rotunda Hospital in 1897. In 1902 Dr R. Dancer Purefoy funded the building and furnishing of a laboratory. The Laboratory has continued to expand to the present day adopting the latest diagnostic tools available to medical scientists. This manual is intended to give the user an overall view of the services provided by the pathology department and how to request those services.

In November 2017 the Rotunda hospital implemented the Maternal Newborn – Clinical Management System (MN-CMS) for mothers and babies. In 2019 the gynae services were moved to the Millennium system. This replaced the existing paper patient health record with an electronic powerchart.

The Rotunda moved out patient and some allied health care services to Hampson House in January 2025. This included the phlebotomy department being relocated to Hampson House providing an improvement in the facilities for patients and phlebotomy staff. In 2026, gynae out-patients moved to the original hospital site. Point of care services expanded to Hampson House as part of the relocation.

Please note that the information provided in this document is intended as a reference guide for clinical users. Patients cannot request testing directly through this service. Patients should follow their healthcare provider's instructions when providing required samples. Test results are returned exclusively to the requesting clinician, and laboratory staff are unable to discuss results directly with patients or their families. For information on laboratory policies regarding complaints, data protection, and consent, please refer to the relevant sections of this manual.

|   |                                      |   |
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| Edition No. 15  | Laboratory Procedure                 |   |

## 2. QUALITY STATEMENT

**Ref.:** WI-GEN-0001 Quality Policy

Contact the laboratory if you require a copy of this document.

Test reports are directed only to the requesting clinician or their specified nominee to support appropriate patient care. Laboratory incidents are reported via the laboratory non-conformance system and users are informed promptly of errors or issues with sample handling or testing to minimise risks to patient care and facilitate corrective actions where relevant or appropriate.

Laboratory management is also committed to upholding the open disclosure policies of the HSE. Medical Scientists working at the Rotunda Hospital Laboratory are subject to the Medical Scientists Registration Board (CORU) Code of Professional Conduct and Ethics. Laboratory Departmental Consultants are subject to the Medical Council's (IMC) Guide to Professional Conduct and Ethics for Registered Medical Practitioners.

An electronic version of this manual and associated documents are available on the hospital Intranet under the Laboratory link and on Laboratory & Hospital Q-Pulse.

If a Memorandum of Understanding (MOU) is required, contact the relevant laboratory discipline.

Contact the hospital if pricing is required.

The Department of Laboratory Medicine is multi-disciplinary with the following departments/disciplines:

- Administration
- Biochemistry/Endocrinology
- Blood Transfusion
- Haematology
- Haemovigilance
- Histopathology / Cytopathology
- Microbiology/Serology/Virology/Andrology
- Mortuary

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| Edition No. 15  | Laboratory Procedure                 |   |

- Phlebotomy
- Point of Care Testing
- Information and Communications Technology

This manual is intended to give an overall view of the services available in the department of laboratory medicine.

**Individual tests available and test guidelines / TAT can be viewed on the Active Test Repertoire table.**

**Tests referred may be viewed on the Referred Test Repertoire Table.**

**Ref.:** LF-GEN-0066-0071 & 0076 departmental Active Test Tables and LF-GEN-0072 Referred Test Table

Blood Tube Guides are available on Q-Pulse and the hospital intranet. These are held for contingency as MN-CMS directs the user as to what sample tubes are required.

The laboratory will inform the patient in advance of the information it intends to place in the public domain e.g. notifiable diseases, adverse events and adverse reactions associated with blood and blood products transfusions. Please note that the laboratory, as per legislative requirements, is required to notify the medical officer of health (MOH)/Director of Public Health (DPH/Health Protection Surveillance Centre) of certain diseases. The list of diseases (and their respective causative pathogens) that are notifiable is contained in the Infectious Diseases Regulations 1981 and Subsequent amendments. The most recent amendment to the Regulations is the Infectious Diseases (Amendment Number 2) Regulations 2024 (S.I. No. 528 of 2024)

Refer to

<https://www.hpsc.ie/notifiablediseases/listofnotifiablediseases/List%20of%20NDs%20Oct24.pdf>

The hospital reports some patient information resulting from histology examinations to agencies like the National Screening Service and the National Cancer Registry. Transfer of patient information to another histology department may be required for the provision of care (e.g. tests not performed in the Rotunda, transfer of patient care to another hospital or to obtain an expert opinion).

|   |                                      |   |
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| Edition No. 15  | Laboratory Procedure                 |   |

The laboratory is required to report serious adverse events and serious adverse reactions (SAEs and SARs) to the National Haemovigilance Office.

### 3. MAIN CHANGES TO THE LABORATORY SERVICE

The following major changes occurred in relation to the laboratory service between June 2025 and 2026 (at the date of issue of this document):

- The laboratory has appointed a new clinical director, Prof. Richard Drew and following retirement, Emily Forde was appointed Laboratory Quality Manager
- Totara learning platform has been introduced for POCT and Haemovigilance training.
- Point of Care Testing implemented in Hampson House.
- Histology relocated some storage to Mosse house which freed up space in the nurses home for renovation by the hospital
- Colposcopy moved to Hampson House.
- Phlebotomy department in Hampson House have extended their service to 5pm, Monday to Friday.
- Gynae OPD is now facilitated in the main hospital building.
- INAB awarded accreditation to ISO 15189:2022 Standard

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#### 4. LABORATORY LOCATION AND SERVICES

The hospital is located on Parnell Square at the top of O'Connell Street in the centre of Dublin. Some outpatients department including phlebotomy services relocated to Hampson House on North Earl Street. The laboratory is located on the ground floor of the hospital. Main Laboratory entrance is reached by entering the hospital through the main entrance, turn right and follow the signs.

| Department/ Activity  | Opening Hours  |
|---|--|
| <u>Department of Laboratory Medicine Reception</u><br><i>Contact labs by phone outside laboratory door</i>  | Monday to Friday 8:30-18.00<br>Semen Analysis by appointment only via laboratory administration EXT 1739.  |
| <u>Routine</u><br>Limited Inpatient Laboratory Diagnostic Service   | Monday to Friday 8.00-18.00<br>Saturday 9.00-12.30 (see section 3.1)<br>8am -9am and 5pm -6pm  |
| <u>Phlebotomy Out-Patient Service</u><br>Provided primarily in Hampson House D01 T6W2. Patient's service appointments will inform patients where they should attend. For the full repertoire of tests carried out during these hours, refer to Section 12 of this document. | Monday - Friday: 08:30 – 15.30<br>(Ext.: 1458)   |
| <u>Out of Hours Service</u><br>An On-Call laboratory service is provided for <b>clinically urgent samples only</b> .  | Monday - Friday: 18:00 – 08:00<br>Saturday - Monday: 12:30– 08:00<br>Bank Holidays: 09:00 – 08:00<br>(following working day)   |
| All specimens must be accompanied with clinical details. Contact the medical scientist on call through the switch, or <b>bleep No. 538</b> or by mobile on call mobile <b>086-2626101</b> or the on call bedroom <b>Ext. 1571/1671</b>                                      | <b>Note:</b> Microbiology provide a limited service Sunday Morning and Bank Holidays (9am to 12.45pm). This service is consultant led and any test required outside of urgent on-call samples must be addressed through the Consultant Microbiologist. |
| (If required <b>Scientist contact no. available from switch</b> ).<br>Clinician/Consultant advisory support is available (number available from switch).  |  |

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| Edition No. 15  | Laboratory Procedure              |   |

#### 4.1 Consent

Patient consent for treatment, tests, blood transfusions which include blood and blood products, and services at the Rotunda Hospital is obtained by the treating physician/clinical staff to ensure informed consent. This consent may be continuous as the care pathway progresses or further intervention are required, this is managed by the treating physician. The laboratory considers the request form as confirming consent has been agreed. The hospital consent forms are held on MN-CMS with backups on Q-Pulse. The hospital adheres to the HSE National Consent Policy.

#### 4.2 Scientific and Clinical Advice

Scientific and medical advice on issues within the laboratory's range of interest and competence is available. Contact the laboratory office if there is no reply at extensions listed. Please note that results can only be issued to clinical staff/requesting clinician. The clinician can phone the laboratory office with any queries.

If a patient or healthcare provider wishes to access wishes to request previous healthcare records, they should contact the FOI office at [foi@rotunda.ie](mailto:foi@rotunda.ie).

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| EMERGENCY CONTACT FOR THE LAB STAFF ON CALL: <b>BLEEP 538</b> |                                      |
| ON CALL MOBILE <b>086-2626101</b>                             | ON CALL BEDROOM <b>Ext 1571/1671</b> |

| <b>Position</b>                 | <b>Name</b>             | <b>Contact no. / Bleep</b> |
|---------------------------------|-------------------------|----------------------------|
| Director of Laboratory Services | Prof. Richard Drew      | Via the switch             |
| Laboratory Manager              | Mr John O'Loughlin      | 1762 / 0879897643          |
| Consultant Microbiologist       | Prof Richard Drew       | Via the switch             |
| Consultant Microbiologist       | Dr Meaghan Cotter       | Via the switch             |
| Consultant Microbiologist       | Dr Deirdre Broderick    | Via the switch             |
| Consultant Andrologist          | Dr Edgar Mocanu         | 1466                       |
| Consultant Chemical Pathologist | Dr Mohamed Elsammak     | 2522                       |
| Consultant Histopathologist     | Dr Emma Doyle           | 6868                       |
| Consultant Histopathologist     | Dr Eibhlis O Donovan    | 6834                       |
| Consultant Histopathologist     | Dr Noel McEntagart      | 1358                       |
| Consultant Histopathologist     | Dr Keith Pilson         | 6816                       |
| Consultant Histopathologist     | Dr Danielle Costigan    | 9335                       |
| Consultant Haematologist        | Prof Fionnuala Ni Ainle | Contact Reception.         |
| Consultant Haematologist        | Dr Barry MacDonagh      | Contact Reception.         |
| Laboratory Office Enquiries     | Ger Fay                 | 1739                       |
| Laboratory Porter               | Gerry Price             | 1739                       |

|   |                                      |   |
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| Edition No. 15  | Laboratory Procedure                 |   |

|                                     |                                |                |
|-------------------------------------|--------------------------------|----------------|
| Biochemistry/Endocrinology          | Grainne Kelleher               | 2522           |
| Blood Transfusion                   | Deirdre Murphy                 | 1463           |
| Haematology                         | Deirdre Murphy                 | 1464           |
| Microbiology /Serology/Andrology    | Dave Le Blanc                  | 1466/1210      |
| Histopathology                      | Kieran Healy                   | 1467           |
| Mortuary                            | Francoise Coussay/ Mark Petson | 1442           |
| Point of Care                       | Lorna Pentony                  | 2569           |
| ICT                                 | Mike Maher                     | 2569           |
| <b> </b>                            |                                |                |
| Infectious Diseases Liaison Midwife | Mairead Lawless                | Bleep 883      |
| Infection Control ADOM              | Anu Binu                       | Bleep 518      |
| Infection Control Midwife           | Alva Fitzgibbon                | Bleep 522      |
| Haemovigilance Officer              | Rose Marie O'Donovan           | 6803 Bleep 725 |
| Deputy Haemovigilance Officer       | Caitriona Ryan                 | 1464/1463      |
| Surveillance Scientist              | Ailbhe Comyn                   | 1466/1210      |
| <b> </b>                            |                                |                |
| Quality Manager                     | Emily Forde                    | 6872           |
| Deputy Quality Manager              | Lorna Thomas                   | 1467           |
| Health & Safety Officer             | Contact the laboratory manager | 1762           |
| Deputy Health & Safety Officer      |                                |                |

| <b>Position</b>   | <b>Name</b>   | <b>Contact no. / Bleep</b>          |
|---|---|-------------------------------------|
| Training Co-ordinator   | Knowledge Denhere   | 1466                                |
| Deputy Training Co-ordinator/<br>Journal Club                     | CMS in each department                                    | See departmental<br>contact numbers |
| Laboratory ICT Co-ordinator                                       | Mike Maher  | 2569                                |
| Deputy IT Co-ordinator  | LIMS departmental reps where<br>appointed.                | See departmental<br>contact numbers |
| Point of care coordinator   | Lorna Pentony   | 2569                                |
| Deputy Point of Care each<br>Department involved in Point of Care | Contact the CMS in each department<br>for deputy assigned | See departmental<br>contact numbers |

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

### 4.3 Routine Tests Available per Department

Please note that all tests including POCT services are accredited under the scope of ISO 15189, by the Irish National Accreditation Board are identified in this section with a ✓.

#### 4.3.1 Turnaround Times

**Note: Turnaround times can be found in the active test tables for each department's scope of tests.**

Please note the turnaround times stated are based on the assumption of optimum conditions. Turnaround times may be outside the stated ranges depending on a number of factors including:

- Time of day received: routine vs on call hours
- Resources available (staff, sick leave etc.)
- Current routine sample workloads and urgent sample workloads at the time of specimen receipt
- Instrument malfunction and/or essential maintenance.
- Prioritisation of samples of an urgent nature e.g. an urgent transfusion for a haemorrhage will be given precedence over an urgent PET screen.
- MN-CMS downtime - results may be available on APEX.

**NOTE: It is important to include clinical details and pregnancy status on all request forms so requests of an urgent nature can be dealt with promptly, and the appropriate reference ranges can be applied to the results.**

**If the TAT is expected to be delayed, the users will be informed if there is a clinical need identified.**

#### 4.3.2 Reference Ranges

Please note reference ranges quoted may not be applicable in the event of a change of assay methodology or equipment. **Wards will be notified of relevant changes via memo** and it is advised that one always cross checks reference ranges with those quoted on the laboratory report and/or on APEX. The report will also state that a reference range change for a particular parameter has been updated.

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

It is imperative to state the pregnancy status and number of days post-delivery on test requests so the correct reference ranges may be applied to final report.

External users will be notified of a change of reference range (including if a temporary or permanent change) on the report sent.

#### **4.3.3 Referral Test Reference Ranges**

Refer to LF-GEN-0072 Referred Test Table for a complete list of referred tests.

In addition, for tests that are referred externally, please consult the hard copy of results or the referral laboratory for reference ranges.

#### **4.3.4 CSF Reference Ranges**

These values represent the approximate upper and lower limits of normality particularly in neonates and children.

|                                      |  |  |
|--------------------------------------|--|--|
| Normal CSF Values for:<br>Leucocytes | Neonates <28 days<br>Infants 1-12 Months<br><br>Children/<br>Adults 1 Year +         | 0-30 cells x 10 <sup>6</sup> /L<br>0-15 cells x 10 <sup>6</sup> /L<br>0-5 cells x 10 <sup>6</sup> /L |
| Erythrocytes                         | Any age  | No RBCs should be present in normal CSF  |
| Protein                              | Refer to LF-BIO-0066 Biochemistry active test table on the Rotunda Hospital website: | Link:<br><a href="#">Laboratory Medicine - rotunda</a>   |
| Glucose                              | Refer to LF-BIO-0066 Biochemistry active test table on the Rotunda Hospital website: | Link:<br><a href="#">Laboratory Medicine - rotunda</a>   |

#### **4.3.5 Post Mortem Examination**

For Hospital policy please refer to Policy on Post Mortem Practices in the Rotunda Hospital CD-CEA-PM001 on Hospital Q Pulse.

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

It should be noted that post mortem examination are not covered under the scope of accreditation.

**Post Mortem Examination** There are two types of post mortem examination:

- (a) **Consented Hospital Post Mortem Examination** – most common type of post mortem, which can only be undertaken with the consent of the parents/next of kin. Written consent from parents/next of kin must be obtained before undertaking a post mortem. Staff undertaking the responsibility for obtaining consent must be fully familiar with the Rotunda Hospital Policy on Consent (CD-PM-CON-002) and the Hospital Policy CD-CEA-PM001. Staff is advised that in the case of a foetus or baby from a couple who are not legally married it is the mother who must give the consent.

**Post mortems can be requested form the Rotunda Hospital and the NE perinatal pathology group.**

- (b) **Coroner's Post Mortem** – the Coroner has a legal responsibility to investigate a death in certain circumstances.

Parental/next of kin consent is not required. All cases >400grams and >23 weeks gestation are now reportable to the Coroner. If the Coroner declines to take the case, written permission to perform a post mortem must be obtained from the parent/next of kin using the Hospital (non-coroner's) post mortem examination consent form. This form, together with an information booklet for parents and families regarding post mortem examinations, is available on each ward. Parents/next of kin should not be asked for consent if the death is or has been referred to the Coroner. If the Coroner orders a post mortem examination to be carried out, parents/next of kin are not legally permitted to withhold consent.

Contact the Consultant Histopathologist via the Switch to discuss the case and to ensure that it is acceptable for a hospital post mortem examination.

The Dublin City Coroner's Office must be notified at the earliest opportunity on Telephone: 01-8746684

[Email: dublincoroner@justice.ie](mailto:dublincoroner@justice.ie)

Coroner office forms and the coroners on-call rota is available on RHI intranet under Coroners documents. Hard copies of the forms are kept in the ADOM office, Masters office and on Gynae and NICU.

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

The Coroner must be furnished with the deceased details as follows:

1. Name
2. Address
3. Age/Date of Birth
4. Circumstances surrounding death

#### **4.3.6 Post Mortem Examination Reports**

Completion and Availability of the Report: the majority of post mortem reports will be completed within 12 weeks of the post mortem examination. In some cases, due to the complexity of investigations required, the report will take longer. In the event that the report will not be completed within this time frame, the Pathologist will issue a provisional report to the requesting clinician/obstetrician.

Reports concerning Coroner's post mortems are sent directly to the Coroner and a report may not be available for the clinician/obstetrician until after the death certificate has been issued by the Coroner (approximately 3 months).

#### **4.3.7 Placental Examination**

Placental examination is ordered electronically through MN-CMS on the patients chart. Those that meet all the referral criteria will be examined fully as per normal protocol. If the request form does not meet all the clinical criteria, the placenta will be examined grossly and a report issued indicating that further histological examination will only be performed at the request of the clinician. This request should be made to the laboratory by contacting extension 1442 within 2 weeks of issue of this report.

#### **4.3.8 Cost of Tests**

If the price of tests is required, contact the laboratory for details.

### **4.4 Tests Available on Saturday Morning**

#### **4.4.1 Biochemistry/Endocrinology Tests**

1. Full Biochemistry service with the exception of the following: bile & fructosamine.
2. Endocrinology:  $\beta$ HCG only on Saturday, Sunday and Bank Holiday AM.

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

#### **4.4.2 Blood Transfusion**

Full service is available for inpatients where requested.

#### **4.4.3 Haematology Tests**

1. FBC
2. Urgent blood films
3. Urgent Kleihauers
4. Reticulocytes
5. Differential WCC
6. Coagulation Screen (PT, APTT, FIB) including INR and APTT ratio
7. Sickle Screen
8. Rapid ICT card test for malarial antigens
9. D-Dimers (Outsourced)

#### **4.4.4 Microbiology Tests**

Full service available with the exception of Andrology and Serology. Limited PCR available for SARS-CoV-2, Influenza, C. diff, HSV and CT/NG.

Urgent Serology samples will be sent to the NVRL.

Currently microbiology is providing daily SARs Cov2 and Influenza testing. Contact the laboratory or the microbiologist for up to date schedule.

Note: There is a limited service available on Sunday mornings and Bank Holiday Mondays which is consultant led. Please discuss with the Consultant Microbiologist if you require a sample to be analysed.

#### **4.4.5 Histopathology and Cytopathology**

The histopathology and cytopathology service is not available on Saturday mornings or out of hours. Contact scientist on call for out of hours emergencies, who will then contact the consultant histopathologist on call. Frozen sections for surgical cases are not available at the time of issue of this manual.

#### **4.4.6 Post-Mortem Examinations**

For all post-mortem examinations, contact the consultant histopathologist on call, through the switch.

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

#### 4.5 On call service

The on call service is provided by two scientists on site. Specimens for processing or samples requiring separation should be left in main laboratory on the on call blue tray. Any other specimens being left into the laboratory out of hours but which do not require processing until the next day should be placed in the specimen fridge (where applicable) in laboratory reception.

#### Monday to Friday

- **6pm to 11pm** - It is not necessary to bleep for every sample left in the call tray up to **11pm** as the tray will be checked periodically during that time. *However if a sample is critical or if blood products are required, the lab should be contacted on bleep 538.*
- **11pm-3am BLEEP 538** to contact the laboratory for all urgent samples.
- **3am-8am**, please phone the **on call mobile 086-2626101** for urgent samples/blood product requests only.
- Urgent samples *only* are processed on call; these samples must be marked **URGENT**.
- Non-urgent samples can be placed in the specimen fridge.

#### Weekends

- **Saturday:** on call begins at 12.30.
- **Sunday/Bank holiday:**
- **12:30pm(sat) 9am (Sun/Bank hol) to 11pm** - It is not necessary to bleep for every sample left in the call tray up to **11pm** as the tray will be checked periodically during that time. *However if a sample is critical or if blood products are required, the lab should be contacted on bleep 538.*
- **11pm-3am BLEEP 538** to contact the laboratory for all urgent samples.
- **3am-9am**, please phone the **on call mobile 086-2626101** for urgent samples/blood product requests.
- Urgent samples *only* are processed on call, these samples must be marked **URGENT**.
- Non-urgent samples can be placed in the specimen fridge.

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

**NOTE: REMEMBER TO CONTACT LAB IF A CODE RED IS CALLED.**

Refer to appendices of this SOP for full on-call communication protocol.

## **4.6 Tests Performed On-Call**

### **4.6.1 Biochemistry**

All routine biochemistry (exceptions: urinary PCR, bile acids and fructosamine).

Urgent HCG's are processed on Sat/Sun & Bank Holiday AM only.

### **4.6.2 Blood Transfusion**

1. ABO and Rhesus Groups and Antibody screens
2. ABO Group (cell) and Direct Coomb's Tests
3. Issue of Anti-D Immunoglobulin if patient will be greater than 72 hrs post sensitising event by next routine day.
4. Issue of blood and blood products to Paediatric patients
5. Crossmatch and issue of blood and blood products to adults
6. Antibody investigations for inpatients where indicated

### **4.6.3 Haematology**

1. FBC and differentials.
2. Reticulocyte counts.
3. Coagulation Screen including Fibrinogen
4. Sickie Screens.
5. Malaria – rapid ICT card for malarial antigens. If ICT card positive on call a trained scientist, pending consultant approval may be called in to perform malaria identification and if appropriate % parasitaemia.
6. Kleihauer on consultant request where indicated, or for RhD negative patients if the patient will be greater than 72 hrs post sensitising event by next routine day.

### **4.6.4 Microbiology**

1. CSF examination and culture
2. Fluids from normally sterile sites for examination and culture
3. Urine examination and culture (If urgent)

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

4. Culture of wound swabs when requested by the consultant Microbiologist
5. Pregnancy tests
6. Blood cultures: loading onto analyser & examination and culture of positives. Blood cultures are brought to the attention of the scientist on-call to ensure bottles are analysed within 4 hours. Positive blood cultures will be reported within 2-4 hours of signalling positive, but delays may incur due to unforeseen emergencies.
7. Positive Blood Cultures will be run on the BioFire FilmArray and reported directly to the consultant microbiologist.
8. Dispatch of emergency virology specimen to National Virus Reference Laboratory, with consultant approval GBS PCR on GeneXpert for LVS/Rectal Swabs
9. Any sample requested by the Consultant Microbiologist.

#### **4.7 POCT (Point of Care Testing)**

The following are available in various locations throughout the hospital as point of care testing:

- Glucose
- Haemoglobin
- Blood Gas Analysis
- Rotational Thromboelastometry (ROTEM)\*
- Pregnancy Testing\*\*

*\*ROTEM this test is not under the accreditation scope when performed at point of care.*

If a problem arises during routine hours, contact the POC coordinator on Ext 2569. Reagent supplies are available Monday to Friday 9am to 5pm.

**For instrument errors OUT OF HOURS, contact the medical scientist on call on bleep 538 or through the switch.** The scientist when time allows will review and where possible correct error - if not possible it will be deferred for routine staff the following day.

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

## 5. PREPARATION OF THE PATIENT

- Antenatal Glucose Tolerance Test – patient must fast from 12 midnight on the evening prior to the test. This means that they cannot take any food or drink **including water** on the morning of the test.
- First Void Urine – collection of urine is explained to the patient to ensure first void sample is collected.
- Consent for blood tests is the responsibility of medical staff i.e. HIV testing, genetic testing. Refer to section 4.1. Consent must include that data may be shared with third parties (e.g. referral labs, government agencies such as Cervical Check, NHO and the NCRI). Refer to section 13 of this document

### 5.1 Collecting Urine Samples for Analysis – Basic Principles

Ref.: Appendix No. 5 of this manual.

## 6. COLLECTION AND TRANSPORT OF SPECIMENS

Blood specimens must be collected in appropriate plastic leak proof containers with a push cap. The containers must be clearly labelled with the patient details and date. They must be placed inside the plastic envelope attached to the request form if utilised or placed in the plastic bag supplied if ordered on MN-CMS. Glass containers are not acceptable.

All other specimens must be collected in appropriate screw cap containers.

Specimens are collected from the wards at 10am, 2pm and 4pm.

Specimens from Hampson House are collected frequently throughout the day by courier. Collection times are subject to change so please confirm at reception in Hampson House of next collection time. Urgent courier can be called if required outside of the normal set collection times.

Transport is managed by a specialised external contracted supplier. Contact details are available at reception or in the phlebotomy department.

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

## 6.1 Positive Identification of the Patient (PPID)

### 6.1.1 In-Patients

To comply with best practice all in-patients undergoing sample collection must wear an ID band, and where possible, for MNCMS patients, this ID band should be scanned when collecting samples.

#### 6.1.1.1 *The Conscious Patient with ID Bracelet*

1. Ask the patient to state full name and date of birth, if appropriate.
2. Check the details given by the patient against the ID Bracelet and/or the patient's request form. **Ensure that patient's Name, Date of Birth and Hospital Number on the patient's ID bracelet correspond with the information provided on the request form.**
3. Resolve any discrepancy, no matter how trivial, before proceeding. If necessary seek assistance from nursing staff.
4. If unable to resolve discrepancies successfully, take a note and inform the clinical nurse manager/midwife and return the request form if used, to the clinical nurse manager/midwife for resolution.

#### 6.1.1.2 *The Conscious Patient without a ID Bracelet (exceptional circumstances)*

1. Ask nursing staff to apply ID Bracelet with positive patient ID.
2. Ask the patient to state full name and date of birth, if appropriate.
3. Compare data and resolve any discrepancies before proceeding.

#### 6.1.1.3 *The Patient is Unconscious, Mentally Incompetent or does Not Speak a Language Familiar to the Phlebotomist*

1. Ask nursing staff to positively identify the patient (never rely on the ID Bracelet alone).
2. Compare the data with details in the patient's request form and on the patient's ID Bracelet.
3. Resolve any discrepancies before proceeding.

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

### **6.1.2 Outpatients**

Out-patients may not always have ID bracelets:

1. Ask the patient to state full name and date of birth.
2. Check request form and/ or patients clinical notes to verify patient ID information.
3. Resolve any discrepancy, no matter how trivial, before proceeding. If unable to resolve discrepancies successfully, take a note and inform the clinical nurse manager/midwife, return the request form if used, to the clinical nurse manager for resolution.

### **6.1.3 Positive Patient Identification of Neonates**

All newborn babies must have two identification bands applied at delivery. These must contain the following details:

- Baby Name
- Baby Hospital number
- Date of birth
- Sex of Baby
- Ask the baby's mother or guardian to state the baby's name and date of birth.
- Verify verbally with the mother or guardian the baby's details.
- Check the details given by the mother or guardian on the baby's ID band. Any discrepancies detected must be resolved before sampling.
- If a parent or guardian is not present details on the baby's identification band must be checked with details on the baby chart.

### **6.1.4 Paediatric Out-patients**

These babies do not wear an ID band. A parent or guardian should be present when taking blood sample to ensure positive patient identification

- Ask the baby's mother or guardian to state the baby's name and date of birth.
- Verify verbally with the mother or guardian the baby's details.
- Check the details given by the mother or guardian on the baby's clinical notes and request. Any discrepancies detected must be resolved before sampling.

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

## 6.2 Collection of Blood Sample

Ref.: CM-PHL-0001 Blood Sampling in Phlebotomy

### 6.2.1 Action to be taken if there are Patient Problems

1. If an artery is entered accidentally, remove needle and apply pressure to the site, seek nursing/medical assistance.
2. If the patient becomes nauseous, provide reassurance, make patient comfortable instruct patient to breathe deeply and slowly.
3. If the patient faints, seek midwife, nursing or medical staff.
4. If a patient objects to tests do not argue with the patient but emphasise the tests were requested by the patient's doctor. Report the patient's objections to the midwives/nursing/medical staff.
5. **Do not proceed without the patient's permission.**
6. If patient expresses objection to venepuncture, phlebotomy does not proceed, inform the midwife or clinical nurse manager in charge.  
Ref.: Par 6.1 Phlebotomists Association of Ireland Code of Practice 1996
7. Report all incidents to department head.
8. If patient enquires about test results, advise patients to discuss with nursing/midwifery/ medical staff.

## 6.3 Disposal of Materials used in Sample Collection

When finished, both apron and gloves must be disposed of in the clinical waste bin provided. This is located inside the patient's room. Dispose of all sharps used in the bins provided.

## 6.4 Containers

### 6.4.1 Minimum Patient Data required on a Specimen Container (except for Blood Transfusion and Histology)

- Hospital Number (preferable identifier) / Date of Birth
- Surname
- Forename

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|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

Desirable data items include:

- Date/Time of Sampling
- Signature of sample taker (if handwritten)

Scanning of patient ID band is encouraged to produce a barcoded label containing patient demographics and test request.

For Blood transfusion samples, where PPID is removed (i.e. 'unable to scan barcode id' is selected or available for use), specimens for analysis must be HANDWRITTEN. *If there are any difficulties in scanning Patient ID bands, a handwritten sample is acceptable in blood transfusion once it is labelled with the patient's forename, surname, hospital number, date of birth and signature of sample taker.*

Unlabelled samples and non-conforming sample/request forms will not be processed – exceptions are CSF, blood culture post commencing antibiotics and histology samples, after completion of amendment form (refer to LF-GEN-0013 Specimen Request Amendment Form).

#### **6.4.2 Patient Data Required On Specimens for Histology**

Histology specimens must be accompanied by a Histology Request form that outlines the clinical indication for the specimen. Patient consent for some tests may be required such as samples taken for cytogenetics. This consent is obtained by the clinical staff. Histology specimen containers must have a minimum of 3 identifiers:

- Hospital Number
- Patient Name
- Date of Birth
- The specimen type/site is desirable i.e. POC, cervical biopsy 6 O'clock

All specimens should be received in formalin fixative in the laboratory with the exception of:

- Genetic Studies:** Specimens for cytogenetics are to be sent to the laboratory immediately without fixative. **Do not put any part of the specimen into formalin or any other fixative.**
- Specimens requiring microbiological culture:** If a specimen requires microbial studies also, it should be sent down to the laboratory ASAP fresh.

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

**C. Fluid Samples:** fluid samples for cytology should be **sent fresh, ASAP.**

#### **6.4.3 Patient Data Required on Specimens for Blood Transfusion**

- Surname and forename (no forename is required for babies unless recorded in MN-CMS or iPIMS, or if baby is readmitted and iPIMS record has been updated)
- DOB
- Hospital number /address if not a Rotunda hospital patient see below.
- Date of collection and where possible time.
- Signature of person taking the sample (if PPID not used)

Scan the patient's ID band when collecting the sample for MNCMS patients. In cases where this is not possible or if the patient is not on the MNCMS system, blood transfusion specimens must be handwritten and signed; samples without hospital numbers will not be processed. The only exception to this is home birth from Domiciliary midwives or GP samples for anti-D issue where no hospital number is available. In this case, the patient address is the third unique identifier. It is the responsibility of the independent midwife/GP to positively identify the patient.

Where inadequacies in details exist, the specimen will be rejected.

There is a request form available for GP samples - RF-BT-0003. This is available from the hospital website under GP information.

#### **6.5 Specimens Received from Outside Users**

Specimens are accepted by individuals (but **ONLY** where tests have been ordered by a clinician), GP's, couriers or delivered by post to the laboratory reception.

Pathological specimens must be packaged in accordance to the Packaging Instructions P650.

1. The packaging should be of good quality, strong enough to withstand the shocks and loadings normally encountered during transport. Packaging will be constructed and closed to prevent any loss of content that might be caused under normal conditions of transport.
2. The packaging consists of three components:
  - a. A primary receptacle

|   |                                      |   |
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| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

- b. A secondary packaging, and
  - c. An outer packaging
3. Pathology material must be placed in a securely closed, watertight primary container such as a test tube, vial, etc.
4. The primary container(s) must be enclosed in durable, watertight, secondary container. Several primary containers may be enclosed in a single secondary container. If multiple fragile primary receptacles are placed in a single secondary container, they will be either individually wrapped or separated so as to prevent contact between them.
5. The primary container(s) is packed in secondary packaging in such a way that under normal conditions of transport, they cannot break, be punctured or leak their contents into the secondary packaging.
6. A label indicating universal precautions is attached to the rigid secondary container. The label is not visible on the outer cover of the postage package but is visible to whoever unpacks it before the rigid protective secondary container is opened. Clinical information/patient details must be concealed from view.
7. The secondary container is secured in outer packaging with suitable cushioning material. Any leakage of contents shall not compromise the integrity of the cushioning material or of the outer packaging.
8. Labels indicating a danger of infection must only be used for specimens which are suspected of containing a hazard pathogen so that all such specimens can be easily identified and transported directly to the appropriate laboratory department.
9. The name and address of the sender is put on the back of the licensed container in case of damage or leakage.
10. For transport the mark UN 3373 is displayed on the external surface of the outer packaging in a diamond (sides measuring at least 50mm x 50mm) on a background of a contrasting colour and shall be clearly visible and legible. The width of the line shall be at least 2 mm; the letters and number shall be at least 6 mm high.

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|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

## 7. REQUESTING TESTS

The requesting clinician can order a test/s by ordering electronically on MN-CMS and attaching the generated barcode label to the sample. MN-CMS is applicable for all maternity, newborn, and gynae patients. Request forms may be used for other patients or as a contingency if the electronic chart is inaccessible. These request forms are held in back up packs on the ward, in the laboratory departments including specimen referral area and in the outside stores.

**Note:** It is the responsibility of the requesting clinician and person collecting patient specimens to ensure that request is correctly completed and that appropriate consent has been obtained in line with hospital policy which complies with the HSE National Consent Policy.

The requesting clinician must complete the appropriate request in full, including clinical details. The personal information received is treated as confidential in line with the hospital policy on personal information. If a request form is being used then it must remain attached to the specimen transport bag.

If samples are ordered electronically then the barcode label must be placed correctly on the sample container and multiple samples maybe placed in the bags provided preferably separated into each discipline.

The Rotunda Hospital has request forms available for all laboratory disciplines.

Please ensure that the barcode is fixed correctly to the container (See figure 1 below). Ensure that the correct label is fixed to the correct bottle, e.g. UE test on Lithium heparin bottle. If the label is not correctly aligned, analyser barcode scanners will be unable to read the specimen.



**Figure 1: Labelling of a Specimen Bottle**

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|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

## 7.1 General Requests (not Blood Transfusion/Thrombophilia)

### 7.1.1 Requesting a Test

It is important to remember that this communication is the definitive and, at times, the only communication between the clinician requesting the test and the scientist performing the test. Please ensure that all relevant information is included on the request form.

All requests must contain the following items:

- Hospital Number (for hospital patients only)
- Surname
- Forename
- Date of Birth
- Address
- Specimen Type (for histology and microbiology)
- Ward/Location
- Date & Time of Collection (completed by person taking sample)
- Requesting Clinician (Team or GP name for out-patients)
- Signature of sample taker
- **Clinical Details & Gestation where relevant are VERY desirable and may be significant in the review of results in cases.**

#### ***Desirable (but not essential) Useful Information:***

- Medication (important in Microbiology investigations)
- Previous History
- Gender in particular for patients attending infertility clinics where partners are attending.

NOTE: Large addressograph labels are acceptable on all request forms.

NOTE: SATU specimens are identified only by the following:

- A unique number
- Initials
- Date of Birth

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|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

NOTE: If a specimen is received with a referral letter, the letter is used as a substitute for the request form. Any discrepancies are resolved by telephoning the GP prior to analysis.

NOTE: Requests for Group B Strep PCR for the IMSRL must be completed on the IMSRL request form. Request for genetics analysis must be accompanied by appropriate referral laboratory request form. For foetal / paediatric use a Crumlin Request Form, for adults use the TDL Request Form.

Link-TDL genetics and user page link <https://tdlpathology.com/services-divisions/tdl-genetics/>

**NOTE:** TESTING WILL NOT PROCEED IF REQUESTS ARE NOT COMPLETED IN FULL. This applies for add on tests being ordered. An additional request form or printed requisition (MN-CMS) must be sent to the laboratory in a timely manner.

### **7.1.2 Specimens**

With the exception of Blood Transfusion and Histology, specimens must be labelled with a minimum of two unique identifiers i.e. full patient name and hospital number.

Note: Histology specimens are required to have three identifiers (hospital number, full name and D.O.B.) as stated in Section 5.4.2 of this document.

In the case of twins, it is preferable to also mark specimens twin I and twin II. For external patients, the date of birth replaces the hospital number.

NOTE: Small addressograph labels are acceptable on all specimens other than blood transfusion, once they hold the minimum information required. Barcodes generated from ordering samples on MN-CMS are acceptable on all samples.

When a semen sample is received for fertility analysis, the time of sample collection must be included on form.

Inadequacies in details **must** be resolved before specimen is processed.

Note: It is NOT acceptable to cross out patient's details on an addressograph label and write partners details in its place. Either place a new addressograph label on the sample or write on the sample bottle in the space provided.

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|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

## 7.2 Microbiology Requests

1. Swabs: site must be specified on request, and full clinical details given.
2. Semen samples for infertility: time of collection must be included. The laboratory operates an appointment system for infertility semen analysis. Patients are required to phone the laboratory office to book an appointment to leave the specimen. **The specimen must be received within one hour of being produced.** The laboratory has facilities for patients who may need to produce a specimen on site. This facility must be booked by appointment. Patients will be required to fill in a short form upon arrival at laboratory.
3. Patients must present with either a GP referral letter or a GP stamp on the Semen analysis request form (RF-MICRO-0002).
4. PCR and viral load samples: must be delivered to the laboratory immediately and brought to the attention of a medical scientist.
5. Blood Cultures must be received in the laboratory within four hours of the sample being taken.
6. CSF Samples must be hand delivered to the laboratory staff.
7. Samples for SARS-CoV-2 and Influenza PCR are not performed out of hours and should be left in the fridge until the next day. Samples are run seven days a week and results will be reported within 24 hours of receipt.
8. Samples for *C. difficile* are performed 7 days a week, however samples NOT taking the shape of the container (Formed/semi-Formed), will be rejected.
9. Fluid samples will be also tested for Norovirus
10. Stools samples on <2 year old patients will be rejected unless specifically requested by the Consultant Microbiologist
11. Urine samples for CMV PCR must be frozen within 24 hours of collection. Please hand to laboratory staff if unsure.

## 7.3 Thrombophilia Requests

There is a specific request form for thrombophilia, Lupus anti-coagulant and Factor assays testing and the request form must be completed in full. This is available from the laboratory and on the intranet on the [Laboratory/Haematology webpage](#). With the agreement of the consultant haematologists requests for Lupus anti-coagulant

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

maybe processed with a request form from certain locations e.g. recurrent miscarriage clinic.

Ref.: RF-HAEM-0002 Thrombophilia Request Form

## 7.4 Blood Transfusion Requests

### 7.4.1 Request

**All requests must contain the following items:**

- Hospital Number (for hospital patients only)
- Surname
- Forename
- Date of Birth
- Date, Time of Collection and signature (completed by person taking sample if handwritten))
- Details of requester or Team/ consultant details (signature if handwritten)
- Clinical Details & Gestation where relevant

**All requests should contain the following information:**

- Address
- Ward/Location
- Team/Consultant
- Medication
- Previous History

Please ensure there are contact details provided for ALL URGENT REQUESTS.

**NOTE:** Large addressograph labels are acceptable on all request forms.

### 7.4.2 Request for Blood/Blood Products

Requests for blood must be made by printing off the blood product requisition from MN-CMS and sending it to the laboratory or a handwritten request form sent to the laboratory.

**NOTE: The laboratory is not notified of the blood product request unless the printed request is brought to the laboratory or a verbal request has been made over the phone.**

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

An urgent request for blood products may be placed by phoning the blood transfusion laboratory on extension 1463/1464. This must be followed up by a printed/handwritten requisition.

Requests for Blood and blood products should, in addition to the information in 6.4.1 also contain the following information:

- Previous transfusions, obstetric history, red cell antibodies or any adverse reactions
- Special requirements, if required e.g. irradiated, CMV neg etc.
- Type and number of blood products required and when. When requesting factor concentrates the brand name, for instance Alprolix,, Altuvoc, NovoSeven, must be requested and not the factor name e.g. Factor 8. When requesting albumin, the concentration required, either 5% or 20% must be stated.

Providing there are no antibodies, cross-matched blood is available in approximately 40 minutes post sample receipt.

Platelets are not held on site and can usually be available within one hour from the IBTS.

Factor concentrates may not always be held on site depending on the type. A limited number of the most common concentrates are stored. Contact blood transfusion laboratory as early as possible.

Plasma, fibrinogen and Novo Seven are held in the hospital and plasma can be available within 30 minutes of request. Novo Seven must be administered following consultation with a haematologist.

Please refer to hospital Q-Pulse for further information.

**NOTE:** testing will not proceed if requests are not completed in full.

**NOTE:** It is the treating clinician responsibility to gain patient consent for all blood transfusions and blood product transfusions.

## 7.5 Histology Requests

All specimens for histology and cytology must be accompanied by a completed request form that contains information about the type of specimen and relevant clinical information (why the specimen was taken). Where an order is placed through

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

the order communications function of MN-CMS, the requisition form must be printed and accompany the specimen to the lab. If it is not possible then the backup system is to complete a request form by hand.

## **7.6 Post Mortem Examination**

For all types post-mortem examinations, contact bereavement.

The hospital policy **must** be adhered to and may be accessed on Q-Pulse.

Ref.: CD-CEA-PM0001 Policy on Post Mortem Practices in the Rotunda Hospital

The Pathology Request Form PA 1064C and Hospital Consent Form for Post Mortems PA1064A for all types of pm **must** be completed and sent to the mortuary.

These forms for all types of post mortems are available from the wards and from the assistant director of midwifery on duty out of hours.

### **7.6.1 Placenta Request Form**

The placenta order details should be completed on the electronic order and the request form printed from the electronic chart in all cases in which a placenta is submitted for examination.

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

## 8. QUALITY OF SERVICE

Requirements with respect to completing the request and to labelling specimen must be followed; a non-conformance may result from the following reasons:

| <b>Specimen Issues</b>  | <b>Action</b>  | <b>Documentation</b>  |
|---|--|---|
| <ul style="list-style-type: none"> <li>No specimen received</li> <li>Specimen not identified</li> <li>Specimen unlabelled</li> <li>BT samples labelled incorrectly e.g. PPID override, no signature.</li> <li>Mandatory identifiers must be on specimen</li> </ul>  | <p>A second specimen must be collected or specimen taker must take responsibility in cases of an emergency (note for BT, only emergency uncrossmatched blood products will be issued) or where the specimen cannot be repeated. If tested the report will reflect the non-conformance. Exceptions are CSF, blood cultures and histology specimens where samples cannot be repeated. Allow sample taker to correct error.</p> | <p>If specimen is processed LF-GEN-0013 Specimen Request Amendment Form is completed.</p> <p>A non-conformance may be raised.</p> |
| <b>Request/ordering Issues</b>  | <b>Action</b>  | <b>Documentation</b>  |
| <ul style="list-style-type: none"> <li>Inadequate or incorrect patient details.</li> <li>Incorrect/No test requested</li> <li>Ordering physician not identified</li> <li>Specimen collected at incorrect time /date or time of collection not indicated.</li> <li>Sample not marked at ``collected`` on the powerchart</li> </ul> | <p>A second specimen is requested if the requester or clinical staff looking after the patient does not correct error.</p> <p>Laboratory to contact clinical area and request the sample be collected</p>  | <p>If specimen is processed LF-GEN-0013 Specimen Request Amendment Form is completed.</p> <p>A non-conformance may be raised.</p> |
| <b>Specimen / Quality Issues</b>  | <b>Action</b>  | <b>Documentation</b>  |
| <ul style="list-style-type: none"> <li>Evidence of Haemolysis</li> <li>Gross lipemia</li> <li>Presence of clots</li> <li>Age of specimen</li> </ul>   | <p>The laboratory will decide on whether the specimen is suitable for the requested test. A repeat sample may be requested as appropriate. If tested the report will identify the NC.</p>  | <p>Not Applicable</p>   |

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|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

Where specimens from MNCMS are not labelled appropriately, e.g. barcodes not straight on bottle, incorrect test on incorrect sample type, blood transfusion MNCMS label not signed (for in-patients/POPD samples) a delay will occur in processing sample or the specimen may be rejected.

Where barcode ID band is not scanned for Blood Transfusion samples, this sample is not suitable for crossmatching and a repeat will be required.

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

### Criteria for Specimen Rejection (Other than Labelling Discrepancies)

| Department               | Insufficient Specimen | Clotted | Haemolysed | Incorrect Specimen Type | Age of Specimen  | Incorrect Anticoagulant | Leaking Specimen | Inappropriate Test Request |
|--------------------------|-----------------------|---------|------------|-------------------------|--|-------------------------|------------------|----------------------------|
| <b>Haematology</b>       | ●                     | ●       |            | ●                       | ●FBC>24hrs<br>Blood films >8hrs*   | ●                       | ●                | ●                          |
| <b>Coagulation</b>       | ●                     | ●       | ●          | ●                       | ●>4hrs   | ●                       | ●                | ●                          |
| <b>Blood Transfusion</b> | ●                     | ●       | ●          | ●                       | > 24 hrs at RT   | ●                       | ●                | ●                          |
| <b>Biochemistry</b>      | ●                     | ●       | ●          | ●                       | ●>24hrs  | ●                       | ●                | ●                          |
| <b>Endocrinology</b>     | ●                     | ●       | ●          | ●                       |  | ●                       | ●                | ●                          |
| <b>Microbiology</b>      | ●                     |         | ●          | ●                       | ● Urines>24hrs<br>Semen for Infertility >2hrs<br>Post Vasectomy Samples<br>>3 days, incorrectly<br>packaged, no form<br>received or leaking<br>Viral Load >24hrs<br>Stools – Formed Samples<br>or <2 years old | ●                       | ●                | ●                          |
| <b>Virology serology</b> | ●                     |         | ●          | ●                       | ●  | ●                       | ●                | ●                          |
| <b>Histology</b>         | N/A                   | N/A     | N/A        | N/A                     | N/A  | N/A                     | N/A              | N/A                        |
| <b>Cytology</b>          | N/A                   | N/A     | N/A        | N/A                     | N/A  | N/A                     | N/A              | N/A                        |

\*Specimens must be kept refrigerated.

These are the most common reasons for specimen rejection. It is not possible to document every probable situation. However if the medical scientist considers that the specimen quality will adversely affect the test result the specimen will be rejected.

Histology laboratory does not reject any specimens. Microbiology and Biochemistry will not reject CSF samples.

Stool samples that do not take the shape of the container will be rejected for *C. difficile* and/or *Norovirus*

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|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

## 9. SPECIMEN/ HEALTHCARE RECORD RETENTION POLICY

The following information is in accordance with the guidelines of the 'The Retention and Storage of Pathological Records and Archives' – 5<sup>th</sup> Edition Royal College of Pathologists 2015 and the National Pathology Accreditation Advisory Council 'Retention of Laboratory Record and Diagnostic Material' 2<sup>nd</sup> Edition.

The recommendations that follow outline the minimum retention time for various clinical materials and healthcare records.

There are separate storage facilities for:

- Clinical material
- Blood and blood products
- Blocks and Slides (these are considered part of the healthcare record)
- Healthcare records and associated documentation associated with performing laboratory tests

Storage facilities are in accordance with current legislation, regulations and guidelines.

If a patient or healthcare provider or a legal representative wishes to access retained patient results they must comply with hospital policy and contact the hospital freedom of information office - [foi@rotunda.ie](mailto:foi@rotunda.ie)

For contact details and further information, refer to the hospital webpage on the Home page. The hospital automatically issues an automatic response upon receiving a request. The standard response time is one month in accordance with legislation. However, the Rotunda will make exceptions to expedite requests when the records are urgently needed.

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

## 9.1 Specimens and Preparations

| <b>Specimens and Preparations</b>   | <b>Retention Time</b>   |
|---|---|
| <b>Histopathology Samples</b>   |   |
| Surgicals – residual wet tissue   | Minimum 4 weeks after issue of final report   |
| Paraffin blocks-and slides  | Held for minimum 30 years (Initially in Histopathology in storage and then in offsite storage facility)   |
| Frozen sections   | Processed to paraffin blocks and retained as above  |
| Placentae – residual tissue   | Minimum 1 month   |
| <b>Post Mortem Samples</b>  |   |
| Blocked tissue  | Minimum 30 years  |
| Slides  | Minimum 30 years  |
| <b>Cytopathology</b>  |   |
| Slides  | Held for minimum 10 years in offsite storage facility<br>Gynae (cervical) cytology slides are no longer retained in the hospitals archive in compliance with guidelines |
| Residual Cytopathology specimens and preparations   | Minimum 4 weeks after issue of final report.  |
| <b>Biochemistry/Endocrinology Samples</b>   |   |
| Routine Plasma, Serum (adult) and baby  | 7 days  |
| Original Paediatric specimen, urine   | End of day reported   |
| CSF / HbA1c / Urine samples   | 7 days  |
| Referred Blood specimen   | Specimen not retained as entire primary sample is sent out. In the case where sample requires additional testing at the RHD the sample is held for 1 day as above.      |
| <b>Microbiology Samples</b>   |   |
| Swabs including GBS, pus, Fluids, tips, stool and specimens sent for examination except * | 2 days at RT  |
| *Urine specimens (Culture or HcG)   | 24 hours at Room Temp   |
| *Blood cultures – negative  | Not <5 days on BacT Alert   |
| *Blood Cultures – Positive  | Once Final Report authorised  |
| *Blood samples for serology- sera on clot   | 2 weeks Refrigerated  |
| *Serology separated samples-sera  | 2 years Frozen (-20)  |
| *CSF specimens  | 1 week refrigerated   |
| *STI – Negative Samples   | End of day testing at RT  |
| *STI – Positive Samples   | 7 days Frozen at -20  |
| *Stool Samples – Positive for Norovirus/C. diff   | Sent to PHL Cherry Orchard (c. diff only) – Norovirus (2 days)  |
| *Semen  | End of testing day at RT  |
| *SARS-CoV-2 PCR and other Respiratory Samples (eNAT or UTM)                               | 1 Week at RT for Negative and 1 week Frozen at -20 for Positive   |
| *HSV 1 or 2   | 1 week frozen at -20 (positive) or 1 week RT (Negative)   |
| *Placentae (referred from P.M. room)  | End of testing day at RT  |

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

| <b>Specimens and Preparations</b> | <b>Retention Time</b>   |
|-----------------------------------|---|
| Culture Plates                    | 1-2 days at RT  |
| Significant isolates selected     | 5 years "Protect beads" (-20)   |
| Stained slides                    | 2 weeks** at RT   |
| All MRSA                          | 5 years "Protect beads" (-20) – All isolates are sent to IMRSARL for typing |
| Any significant isolate           | 5 years "Protect beads" (-20)   |
| Isolates from QC                  | 5 years "Protect beads" (-20)   |

\*\* Some slides are kept for educational purposes.

\*Some positive samples are kept for longer for verification or training purposes.

| <b>Haematology &amp; Blood Transfusion Samples</b> |   |
|--|---|
| FBC/Coagulation                                    | At least 6 days post testing                                |
| Blood films/Kleihauer slides                       | Minimum 6 weeks**   |
| Lupus/Thrombophilia Testing                        | At least 4 weeks post issue of report                       |
| Haemoglobinopathy samples                          | Discard post checking of report                             |
| Adult plasma for group/save and/or x-match/flow    | At least 2 weeks ****                                       |
| Babies blood/cord blood for group/DCT              | At least 1 week   |
| Referred Blood specimen                            | Specimen not retained as entire primary sample is sent out. |

\*\*\*\* **Frozen Antenatal and Maternal plasma 72 hrs pre or post-delivery for at least 4 months**

Some plasma samples are kept for educational and training purposes.

## 9.2 Residual Samples for Research Purposes

The laboratory must seek explicit consent through the Consultant in charge of the patient from patients/guardians in order to use residual or surplus samples. In the absence of explicit consent, prior approval must be granted by the Hospital Ethics Committee in order that samples may be used for purposes other than the examinations requested e.g. method development. If used, all samples must be anonymised.

With certain unique samples, e.g. dried blood specimens or biopsies, only a portion of the sample must be used. Sufficient sample must be retained in the event of further investigations being required.

Residual or surplus samples may only be used for research related to a specific or group of disorders provided prior approval is granted by the Ethics Committee or appropriate body. Ethical approval must be sought independently for every proposed study. Policy on use of residual samples for research purposes is under constant

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

review by Hospital Ethics Committee. Specimens received for routine processing may be used for quality control purposes.

### 9.3 Post-Mortem Material

Disposal of post mortem material is currently undertaken at the family's wishes. Following the post mortem, on the rare occasion that there might be any retained organ/s these are stored in the mortuary in formalin fixative until all results are finalised and post mortem report complete (generally about 12 weeks). In some cases, due to the complexity of investigations required the report may take longer. Depending on the wishes of the parents, retained organs / tissue are stored in the PM room until returned to them for burial or cremation. Otherwise they are disposed of according to hospital practice.

## 10. REPORTS

Critical results or results on the critical phone list will be phoned to the referring location. If the laboratory are unable to contact the referring location then every effort will be made to contact a member of the clinical team i.e. NCHD. In the event we can't phone a result to the team we will phone the results to the on call consultant (for Obstetrics this is the consultant covering Labour Ward during the day and the on call consultant at night; for paed's this is the Consultant on call for the NICU). Switch will have the list of Consultants covering the Labour ward / Obs on call and NICU on call.

Only certain results will be telephoned:

- When previously arranged, e.g. on "Urgent" samples with prior verbal notification
- When asked to do so on the request
- When results may be critical or of relevance to immediate clinical management.

The method by which this is done is clearly defined to ensure the results only reach an authorised receiver and that results are clear and unambiguous. The security of the personal records is ensured and the risk of error reduced.

Reports are available to all users on APEX & MN CMS once they have been authorised by the laboratory.

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

Results provided verbally are followed by an electronically generated report to the powerchart or a hard copy if not on MN CMS.

Reports contain all relevant reference ranges.

Faxed reports are no longer available the Rotunda laboratory.

Retention time for reports: Hard copies are kept for 30 years. Since 1990 all Rotunda generated reports are held electronically.

### **10.1 Issuing of Reports during Normal Opening Hours**

Results are entered/sent into the laboratory information system (APEX) and authorized upon completion. By default these results are available on the electronic chart. Results of requests, which have been accepted (agreed) as urgent, are phoned to the relevant ward/GP, as are abnormal results which fulfil the department's result phoning criteria.

Tests which were requested on the MN-CMS once authorised, the result is sent automatically to the chart on authorisation on APEX.

Where results are not available on MN CMS, the report is printed and placed in a tray for posting.

Reports returned from external referral laboratories are included in the routine report deliveries if a paper health care record is being used.

In the case of the MN-CMS then the returned report is scanned and attached to the patients record.

Hospital reports to external users are posted to the requesting clinician.

The requestor may phone the laboratory for results if requested in house. External requestors should contact laboratory administration refer to section 3.1 of this manual.

### **10.2 Issuing of Reports On-Call**

Results are entered and are authorised into the laboratory information system (Apex). Electronic results are transmitted to MN-CMS as they are authorised on APEX.

Any critically abnormal results will be telephoned to the ward or to the requesting clinician if they meet the phoning criteria. Results are available on the APEX and

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

MNCMS system once testing is authorised. Where calls originate from external agencies the results are phoned and a written report dispatched on the first working day the referral laboratory when received.

### **10.3 Ward Access to Laboratory Results**

Once laboratory results are authorised, they are available for access via PC's at ward and clinics. Results available on MN-CMS can be viewed by staff who are authorised to log on to the system. Users who have been given access to the iPIMS system may apply to the laboratory for an individual APEX password, which will allow access to ward enquiry (WENQ). Passwords must not be shared. Apex maintains a record of which results were viewed by whom and at what time.

Instructions on how to access laboratory results are included below see Appendix 1 and are available on the Hospital Intranet under Laboratory.

### **10.4 Clinical Advice and Interpretation on Reports**

Laboratory Management ensure that advice on the selection of examinations and the interpretation of results is available to meet the needs and requirements of users.

The quality of this advice relies on the clinical details provided by the clinical staff.

This advice, where required includes:

- The choice of examinations and the use of the services including repeat frequency and the required type of specimen.
- The precision and accuracy of methods used in the Laboratory
- The clinical significance of results and their relation to reference ranges
- Where possible the suitability of the requested analyses to solve the clinical problem in question
- Additional examinations which may be helpful
- The necessity for repeat examinations where appropriate
- Laboratory consultants may contact or see patients if required as part of the care pathway or to resolve complaints

For further clinical advice and interpretation on laboratory results please contact individual laboratory sections as detailed in Section 3.1 of this document.

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

## 11. TIME LIMITS FOR REQUESTING ADDITIONAL EXAMINATIONS

| Department   | Time Limit  |
|--|---|
| <b>Biochemistry</b>                                    |   |
| Biochemistry   | Dependant on test required 4 to 24 hrs from venepuncture  |
| Endocrinology  | Dependant on test required (max 7days)  |
| <b>Haematology</b>                                     |   |
| FBC  | Same day  |
| Reticulocytes  | Same day  |
| Malaria  | Same day  |
| Coagulation Studies<br>(Incl Lupus +<br>Thrombophilia) | 3 hours from venepuncture   |
| ESR  | Same day  |
| D-Dimer  | 6 hours from venepuncture   |
| Kleihauer  | 48 hours  |
| Sickledex  | Up to 7 days  |
| Haemoglobinopathy                                      | Up to 7 days  |
| <b>Microbiology, Histology &amp; Blood Transfusion</b> |   |
| Microbiology   | Two days unless sample frozen – See retention times   |
| Histopathology/<br>Cytopathology                       | 4 weeks-generally histopathologist not clinician decides on what additional histology tests will be performed.  |
| Serology   | 2 Years. Requires Written Request   |
| Blood Transfusion                                      | Adult Patients will require two groups prior to issue of group specific blood and blood products.   |
| Albumin, Fibrinogen<br>and Factor<br>concentrates      | For these batch products e.g. factor concentrates, no group is required, only a completed request form.   |
| Adult Red cell<br>transfusions                         | For ante/post-natal patients RCC transfusions may be requested so long as the transfusion will be completed within 72 hours of the sample being taken. For gynae patients within 7 days of the sample being taken provided they were not transfused within the last three months. Samples for blood products should be taken from patients with wristbands. |
| RAADP  | Will be issued for patients on the basis of a booking visit RhD negative blood group provided they are less than 32 weeks gestation on administration. For patients >32 weeks a sample is required prior to issue.  |
| Group specific blood<br>products                       | For plasma and platelets, adult patients must have been grouped within last month and preferable not discharged.  |

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

| Department   | Time Limit   |
|--|--|
|  | For antenatal issue of Anti-D Immunoglobulin sample must be taken within 72 hours of sensitising and Anti-D Immunoglobulin administered within 72 hours of event. Additional Anti-D Immunoglobulin may be issued for up to 6 weeks post administration of the initial Anti-D on the same request.<br>With the exception of Anti-D Immunoglobulin, a written request must be received for all products.<br>For patients less than 12/40 weeks gestation Ig anti-D will be issued on samples within 7 days of venepuncture |
| Paediatric red cells and group specific blood products | For Babies issue of RCC's requires a least one group and DAT on the baby, and a negative antibody screen, either on a maternal sample not more than 72 hours prior to delivery or post-nataly, otherwise a repeat baby sample is required for antibody screen and possibly crossmatch.<br>A second babies group is required for group specific Blood products.   |
| Anti-D immunoglobulin for TOP cases                    | Anti- D will be issued to patients availing of TOP service as required determined by blood group.  |
| FREDA/cffDNA Test                                      | The FREDA test is sent out to the IBTS and has a 2 week turnaround time. It's preferable not to take before eleven weeks.  |

For any other queries, contact the relevant laboratory.

### 11.1 Requesting Additional Examinations (Verbal Requests)

Users of Laboratory services may request additional examinations on specimens already sent to the Laboratory provided that the Laboratory has sufficient specimen remaining to perform the additional tests and that the specimen is still of optimal quality to allow the reporting of accurate and meaningful results.

Additional requests for examinations may be made verbally over the telephone. The Medical Scientist receiving the phone call will, if necessary, discuss the additional request with senior personnel before accepting the request. This is to ascertain the benefits of re-testing a sample that may or may not be suitable for re-testing at the time of request. **The requestor MUST forward an additional request form or printed requisition generated from the MN-CMS documenting the 'add -on' test or a MN CMS label. The requestor should note the accession number of the**

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

**sample on the request to allow the laboratory identify the sample for additional testing.**

For requests of tests carried out at the NVRL a request form must be sent to the serology laboratory with the additional test marked on the request form. The laboratory staff will then contact the NVRL.

If a request is made by a GP or Public health, then a written request via a secure email is sufficient. The email will then be scanned to the patient chart as proof of request. Such requests will either go through the laboratory office, Consultant Microbiologist or Microbiology laboratory.

### **11.2 Requesting Repeat Examinations**

On occasion the Laboratory may request a repeat sample for examination for the following reasons:

- Failure of the initial testing process.
- Unsuitability of the specimen.
- The necessity as advised by the Laboratory for further examinations on the original sample.
- Concern of Laboratory staff at authorisation stage over the validity of the results relative to recent previous results on specimens from the same patient.

## **12. PROBLEMS / COMPLAINTS/SUGGESTIONS/FEEDBACK**

Complaints/ problems maybe received from the clinical users of the service or patients. Complaints are recorded as non-conformances on \*Q-Pulse and managed through the laboratory management system. All complaints are investigated without discrimination, impartiality is maintained at all times and the investigation is completed by staff not involved the incident reported

### **12.1 Complaints**

**Minor:** Please phone or email the chief medical scientist in the department concerned (see list at the front of this manual) or contact the laboratory /quality Manager

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

**Major:** Write or mail to the Laboratory / Quality Manager or Director of Department of Laboratory Medicine Services. If a patient or external clinical user is not satisfied with the investigation and response from the laboratory, then they should contact the hospital quality and patient safety department Information on the hospital website under Patient feedback and complaints: [comments@rotunda.ie](mailto:comments@rotunda.ie).

## 12.2 Suggestions / Feedback

Contact any member of the laboratory staff. Suggestions are welcomed by the laboratory and are managed via the laboratory management system on Q-Pulse. Clinical users and patients (where appropriate) are encouraged to partake in laboratory services.

## 13. DATA PROTECTION

The Rotunda Hospital Laboratory adheres to hospital policy to comply fully with all legislation pertaining to data protection, and to act in an ethical and responsible manner in maintaining the security and integrity of all personal information of both patients and staff. The hospital is compliant with the GDPR and Data Protection Act 2018.

Through the Health Act 2004, data may be released to the following third parties, including, but not limited to:

- National Cancer Registry
- National Screening Programs
- National Haemovigilance Office (NHO)
- SARI (Severe Acute Respiratory Infections)
- SARS-CoV-2 WGS (Whole Genome Sequencing).
- C. difficile surveillance (partially de-identified information)
- Carbapenemase Resistant Enterobacteriaceae (CPE) surveillance
- EARS-Net (European Antimicrobial Resistance Network) surveillance
- NRAO (Novel or Rare Antimicrobial Resistant Organism) surveillance

|   |                                   |   |
|---|-----------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>           | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

#### 14. MANAGEMENT OF INCIDENTS THAT COULD HAVE OR RESULTED IN PATIENT HARM

The laboratory acknowledges and manages all incidents through the laboratory management system by recording the incident as a non-conformance in Q-Pulse. Incidents that resulted in patient harm or could have potentially impacted on the patient are reported to the laboratory management committee and to the clinical risk department which may report to the national incident management system (NIMS). For further information refer to HSE website and national incident management system.

The laboratory investigates all incidents and will revert to the complainant within an agreed timeframe.

\*Q-Pulse is a quality management information system used by the Rotunda hospital laboratory to manage various quality related incidents both clinical and non-clinical across laboratory activities.

**Open Disclosure:** The Rotunda hospital has an open, consistent approach to communication with service users when things go wrong in healthcare. This includes providing feedback on investigations, keeping the service user informed on investigations and steps taken to prevent a reoccurrence of the incident.

#### 15. REPERTOIRE OF TESTS

Individual tests available and test guidelines can be viewed on the Active Test Repertoire table.

Tests referred maybe viewed on the Referred Test Repertoire Table.

**Ref.:** LF-GEN-0066-0071 & 0076 Active Test Table and LF-GEN-0072 Referred Test Table

Blood Tube Guides are available on Q-Pulse, the hospital intranet and in clinical areas.

#### 16. ORDERING TESTS ON MN-CMS

Refer to the following documents:

- LI-GEN-0016 MN-CMS Quick Reference Guide for the Department of Laboratory Medicine

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

- LI-GEN-0017 MN-CMS Quick Reference Guide for Blood Transfusion
- LI-GEN-0018 MNCMS Frequently Asked Questions

These documents provide the user with information on ordering the tests on MN-CMS, collection requirements and information on labelling, placing in the supplied bags for collection and transport to the laboratory.

## 17. APPENDICES

1. Appendix No. 1: Accessing Laboratory Results on Apex
2. Appendix No. 2: Protocol for Intrauterine Transfusions (IUT) in the Rotunda Hospital
3. Appendix No. 3: Management of Adverse Transfusion Reactions/Events
4. Appendix No. 4: EX-MICRO-0319 Recommended Swab Types
5. Appendix No. 5: Collecting Urine Samples – Basic Principles
6. Appendix No. 6: Collecting Blood Culture Samples
7. Appendix No. 7: Flow Chart of Laboratory On-Call

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

## Appendix No. 1: Accessing Laboratory Results on APEX

### To Log on:

- Click on the Apex icon on your desktop.
- At the prompt "login" type in APEX.
- Your "Username" is usually your surname followed by first letter of your forename.
- Enter your password.
- Three options appear on the screen.
- 1. WRNQ – for Ward Enquiry.
- 2. UPASS - to change your Password.
- 5. X - to Log off system.

### To Look up Laboratory Results:

- Option 1 will bring up the enquiry screen
- Enter the patients Hospital no. then the first two letters of the Surname.
- Type in 2 or S to select specimen list, return x2. This brings up the list of specimens requested on the patient.
- Use the down arrow key to scroll down to the result required and when it is highlighted hit return to bring that result up on screen.
- **NB: In Apex you use the page up & page down keys on the key to search back for previous results NOT the up and down arrows**
- Cumulative reports available by typing U as option at end of reports page Remember you may need to use the down arrow to scroll up and down the page to see all the results. You will need to type X to exit the cumulative option.
- When finished type X to exit the results page, type X to exit the ward enquiry and finally type X to exit APEX.

### To Change your Apex Password:

Apex will count down a reminder that your password is expiring. Change it before it expires, as if it expires you are locked out and your password has to be reset from the Laboratory.

- Option 2 will bring up the change password screen.
- Enter your current password.
- Enter your new password twice (minimum six characters) and return to accept. The system will now automatically log you out and ask you to log on again with your new password. This is now valid for a further 90 days.

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

## **Appendix No. 2: Protocol for Intrauterine Transfusions (IUT) and Neonatal Allo-immune Thrombocytopenia (NAITP) in the Rotunda Hospital**

### **REQUESTS FOR IUT'S**

The Blood Transfusion Laboratory should be informed of the intrauterine transfusion at least 5 days in advance of the procedure. This is to ensure the availability of antigen negative blood for the IUT. The notification form for intrauterine transfusion must be commenced at this time.

It is preferable to arrange an IUT for a Wednesday, Thursday or Friday and following a bank holiday weekend it is preferable to arrange the procedure for a Thursday or Friday. This is in order to provide the freshest blood available for IUT.

Sample Requirement for IUT'S s:

Take a maternal blood transfusion sample at least 48 hours but not more than 72 hours pre IUT. See sample and request form requirements for blood transfusion.<sup>1</sup>

### **NAITP**

If ordering platelets for a neonate the Blood Transfusion Laboratory should be informed

If there is clinical suspicion of NAITP, so the appropriate platelet product may be ordered from the IBTS.

The following investigations are necessary to make a diagnosis of NAITP:

Screening of maternal plasma against common known platelet antigens and additional screen for GOV antibodies.

Screening of maternal sample against paternal platelets (requires source of fresh paternal platelets) to exclude the presence of a low incidence antibody as a cause of NAITP #

Genotyping of mother, father and baby for HPA 1-5 antigens.

# Samples are currently referred to Platelet Immunology Reference Laboratory in UK for these assays.

NOTE: cases of NAITP occur where there is no identifiable antibody. Where there is a strong clinical suspicion of NAITP the mother should be advised about the possible risk of recurrence in future pregnancies and the importance of early fetal medicine assessment when she does become pregnant.

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

**Request Form and Sample Requirements:**

Please complete the IBTS NAITP request form which includes the clinical information required, available in laboratory. The following samples are required (correctly labelled with patient's full name, date of birth, hospital number if available and date of collection):

10-20mls clotted and 5-10mls EDTA blood from the mother.

10-20mls in EDTA from the father and Paediatric EDTA sample from the baby.

**Inform the IBTS Duty Registrar or Consultant (01 4322800) of all urgent investigations for NAITP** (where neonatal platelet count is <50 or platelet transfusion may be required).

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

### **Appendix No. 3: Management of Adverse Transfusion Reactions/Events**

**A Serious Adverse Reaction** is an unintended response in donor or in patient associated with the collection or transfusion of blood or blood components that is fatal, life-threatening, disabling, incapacitating, or which results in or prolongs hospitalisation or morbidity.

**A Serious Adverse Event** – can be defined as “any untoward occurrence associated with the collecting, testing, processing, storage and distribution, of blood and blood components that might lead to death or life-threatening, disabling or incapacitating conditions for patients or which results in, or prolongs hospitalisation” e.g. Incompatible blood component transfused to a patient.

#### **Management of a Serious Adverse Reaction**

Like other treatments blood can benefit or harm the patient. Good treatment decisions balance the likely benefit against the potential risks for each individual patient. When a reaction occurs the appropriate management can reduce the harm to the patient reporting, and investigating the event can help reduce the risk of its reoccurrence.

- **When a transfusion reaction is suspected STOP unit and check identification of patient and the ABO group of the patient and donor unit IMMEDIATELY. Inform the blood transfusion department immediately as another patient may also be at risk of receiving the wrong blood.** Contact the Laboratory at 1464/1463 or on-call bleep 538 and the Haemovigilance Officer bleep 725/ ext. 6803.
- **Contact medical doctor to assess & manage patients symptoms**
- **Inform Consultant Haematologist, this can be done through the laboratory or switch board.**

LF-BT-0023 Transfusion Reaction Investigation Form **must be completed by the Medical person attending the patient.** These forms and a flow chart for Management of Transfusion Reaction are available on hospital and laboratory Q-Pulse.

**Ref.:** LF-BT-0023 Transfusion Reaction Investigation Form

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|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

Adverse events are reported to the National Haemovigilance Office (NHO) by the Laboratory Haemovigilance Officer, this is a legal requirement under EC Directive 2002/98/EC. The laboratory would report SAEs, SARs a near miss, WBIT\*, late administration of Anti D (>10days) and rapid alert notifications (this is the immediate urgent notification to the supplying Blood Establishment or Blood Bank to initiate a recall of blood components or to prevent the issue of blood components.)

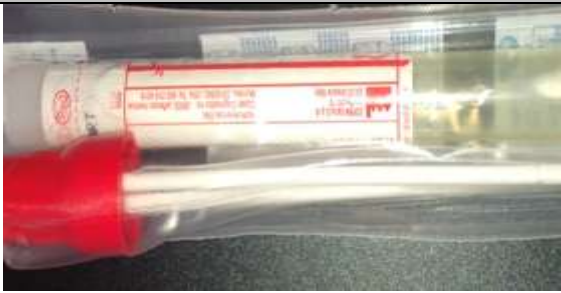



**Note:** these notifications are anonymised, no patient details are shared with the NHO.

For further information refer to the IBTS website and notifications to the NHO:  
<https://healthprofessionals.giveblood.ie/reporting-to-nho/>

\*Wrong Blood in Tube

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|---|--------------------------------------|---|
| <b>Author / Date:</b> Emily Forde & Grace Hanniffy<br>16/04/26                | <b>ROTUNDA HOSPITAL</b>              | Doc No: LP-GEN-0007                         |
| <b>Authorised By / Date:</b> John O'Loughlin &<br>Prof. Richard Drew 05/05/26 | Department of<br>Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure                 |   |

#### Appendix No. 4: Recommended Swab Types

| Recommended Swab Types / Test  | MN-CMS Code  | Swab Name                              | Colour of Swab Top      | IMAGE  |
|--|--|--|-------------------------|--|
| GBS PCR  | Group B Strep GeneXpert RH                                   | Transystem Sterile transport: 2 Prongs | Red                     |    |
| Bacterial culture (endometritis, chorioamnionitis, perineal wound infection)<br><br>Screening Swabs                  | Culture and Sensitivity RH                                   | Transystem Sterile transport: 1 prong  | Dark blue               |   |
| PCR for Bacterial Vaginosis, Chlamydia, Gonorrhoea, Mycoplasma genitalium Trichomonas<br><br>SARS-CoV-2<br>Influenza | Bacterial vaginosis PCR<br><br>STI Screen (CT/NG/ MG/TV)     | eNAT                                   | Light Blue              |  |
| PCR for HSV 1 & 2<br><br>Viral Swab for NVRL   | HSV Screen (excluding blood / CSF)<br><br>Viral Culture, PCR | UTM                                    | Red Top with UTM liquid |  |

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| <b>Authorised By / Date:</b> John O'Loughlin & Prof. Richard Drew<br>05/05/26 | Department of Laboratory Medicine | Date of issue:<br>19 <sup>th</sup> May 2026 |
| Edition No. 15  | Laboratory Procedure              |   |

## Appendix No. 5: Collecting Urine Samples for Analysis - Basic Principles



Fig 1: Obtain informed consent and explain procedure to optimise specimen quality.

Fig 2: Instruct patient to wash hands before and after specimen collection.

Fig 3: Appropriate specimen is collected – see description of sample types below. Ensure lid is securely tightened to avoid leaks.

Fig 4: Ensure sample is labelled (name, HN, d.o.b, specimen type). Return to lab promptly for testing.

### First Void Urine

First void urine is the **first amount of urine passed at any time**- NOT a midstream sample, and NOT necessarily an early morning sample. The patient therefore needs to be instructed to **collect only the first 20mL (approx) of urine**.

A minimum of 10ml FVU (the first part of the stream) or midstream is collected by the patient into a clean polypropylene container without preservative.

### Early Morning Urine

Early morning urine is the **first urine passed at the start of the day**. This urine is most concentrated and is frequently used for bacterial cultures and microscopic examinations such as TB (*a special container should be collected from lab for TB samples*).

### Mid-stream Sample - “Clean Catch”

This involves taking a **‘middle’ sample while the urine is being voided**, avoiding the initial and end stages of the void. The patient should be **instructed to wash the genital area prior to collection** and avoid touching the inside of the sterile container with their hands or genital area. This method of collection reduces the risk of sample contamination from bacteria colonised around the distal urethra, as these bacteria are washed away with the initial urine flow. This sample is frequently used for bacterial culture or cytology.

### Second Fasting Sample

This is the second urine sample of the day while still fasting from the night before. This sample is often used to confirm glycosuria.

### Supervised Sample

The **collection of this sample is directly observed by the nurse/midwife** to ensure the sample is from the named patient. This sample is used for drug testing.

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## Appendix No. 6: Collecting Blood Culture Samples

- If blood for other tests is to be taken at the same venepuncture, inoculate the blood culture bottles first to avoid contamination. It is preferable to take blood for culture separately.
- Disinfect the skin at the venepuncture site
- Disinfect the septum of the blood culture bottle with an alcohol wipe or steret and allow to dry.
- Withdraw blood from a peripheral vein and divide the sample equally among blood culture bottles. Do not take samples through an intravenous catheter or other access device unless no other access is available.

### Children and Neonates

- Use a single paediatric bottle appropriate for small volumes of blood.
- Preferably, a volume of 1-2mL in neonates for each blood culture set. The amount of blood from the neonate that is added to the blood bottle should be indicated (although not always) on the request form.
- Do not exceed the manufacturer's recommended maximum volume for each bottle:

### Adults

- A set is defined as one or more bottles taken at any one time
- Preferably, a volume of 20-30mL for each blood culture set (NOTE: More than 2 bottles per set may be indicated)

### General rules for blood cultures

- Take two sets during any 24h period for each septic episode. For neonates, take a single set of special paediatric bottles
- Transport blood cultures to the laboratory as soon as possible and leave at room temperature. **DO NOT REFRIGERATE.**

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**Appendix No. 7: Flow Chart of Laboratory On-Call**

