# Schematic Flow for Receiving and Processing Suspected Sars-CoV-2 Specimens and Result Reporting at the National Reference Laboratory Gaduwa, Abuja Nigeria

## List of abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>CIF</td>
<td>Case investigation form</td>
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<tr>
<td>LIMS</td>
<td>Laboratory Information Management System</td>
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<tr>
<td>SORMAS</td>
<td>Surveillance Outbreak Response Management and Analysis System</td>
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<tr>
<td>RT-rtPCR</td>
<td>Reverse Transcription real-time Polymerase Chain Reaction</td>
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<tr>
<td>SARS-CoV-2</td>
<td>Severe Acute Respiratory Virus type 2</td>
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<tr>
<td>COVID-19</td>
<td>Corona Virus Disease 19</td>
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SAMPLE RECEPTION

Receive samples with accompanied case investigation forms - all hours of the day

Sort forms and review sample quality

Assign laboratory number on sample tube and CIF; input information on CIF into sample reception database; share CIF with data team and send sample to aliquoting unit

If issues with sample or CIF, share feedback with relevant State immediately; document process.

DATA TEAM

Cross check CIFs

Enter CIFs into database: Cobas 8800 system - LIM; Open platform/GeneXpert - Line List

Enter reviewed results into database and share with Data Manager

Data Manager performs data quality checks, sorts results by States and shares with COVID-19 Laboratory Manager and SORMAS Team

COVID-19 Laboratory Manager performs final result review and shares with States

States communicate issues regarding reported results

LABORATORY TEAM

Aliquot samples into 2 pre-labelled cryovial tubes “A” and “B”

Cryovial Tube “A” sample for analysis

Cobas high-throughput

Create barcode/worksheet

Sample analysis

Nucleic acid purification

RT-rtPCR

Result analysis and documentation

COVID-19 Laboratory Manager performs Quality Control on results and sends to Data Team

Note: The Director of Laboratory Services NRL, oversees all processes of this workflow