Annex 5f: Laboratory Diagnosis of SARS-CoV-2 in Suspected Case of COVID-19 at Outpatient Settings/ Targeted Groups of COVID-19

Flow Chart 1: Flow Chart for Laboratory Diagnosis of SARS-CoV-2 in Suspected Case of COVID-19 at Outpatient Settings/ Targeted Groups of COVID-19

Suspected case of COVID-19 at Outpatient Settings / Targeted Groups of COVID-19

Collect specimen (refer to Annex 5b)

Place Combined NPS and OPS in VTM

Send the specimen in cold chain (2-8°C) as soon as possible to the designated laboratory in triple packaging (refer to Annex 5b)

Perform RT-PCR test

SARS-CoV-2 DETECTED

INCONCLUSIVE/INVALID

SARS-CoV-2 NOT DETECTED

Repeat RT-PCR on same specimen

SARS-CoV-2 DETECTED

INCONCLUSIVE/INVALID

SARS-CoV-2 NOT DETECTED

Admit to ward (Refer to Annex 2b)

Repeat RT-PCR on new specimen within 24 hours

Home Surveillance Order (Refer Flow Chart 2, Annex 2a, and Annex 12)
1 Refer to Annex 1: Case definition of COVID-19

2 If transportation of sample is within 72 hours, store at 2-8°C. If transportation of sample is after 72 hours, store at -80°C.

3 Use approved RT-PCR kit by MDA. The assay shall have 2 different targets on SARS-CoV-2 genome, of which at least one target confirmatory for SARS-CoV-2, following the recommendations and updates by WHO from time to time. A correlation study is needed if the assay has only one target gene. Follow manufacturer’s kit insert for procedure.

4 For rapid molecular testing and antigen testing, refer to Annex 5e: Laboratory protocol on COVID-19 for the health facilities, Ministry of Health, Malaysia and Annex 4c: Guideline on RTK Ag Antigen testing.

All results must be reported in SIMKA OUTBREAK.
Flow Chart 2: Flow chart for Rapid Test Kit Antibody for Home Surveillance Order on Day 13

**Perform RTK antibody (IgM/IgG) \(^1\) on Day 13**

- **Positive**
  - **Perform OP & NP swab for RT-PCR**
    - **SARS-CoV-2 DETECTED**
      - Admit patient (Refer Annex 2b & 3)
    - **Inconclusive/Invalid**
    - **SARS-CoV-2 NOT DETECTED**
      - Repeat RT-PCR on same specimen (Refer Flow Chart 1)
      - Discharge from Home Surveillance Order (Refer Annex 17)

- **Negative**
  - **Discharge from Home Surveillance Order (Refer Annex 17a)**

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\(^1\)Use RTK antibody recommended by MDA. Follow manufacturer’s kit insert for procedure.

All results must be reported in SIMKA OUTBREAK