

Clinical Sampling for OPS/NPS at Health Centre and Field Setting

1. Laboratory screening at health centre and field setting shall be done for person as below :
 - a. Close contacts of confirmed case
 - b. PUI (not fulfilled Admission Criteria)
 - c. Humanitarian aid mission
 - d. etc

2. Preparation for sampling procedure :
 - a. Full set PPE (refer Annex 8a)
 - i. Head cover
 - ii. Face shields
 - iii. Mask N95
 - iv. Double glove
 - v. Isolation gown (Level 4-5)
 - vi. Plastic gown
 - vii. Boot cover
 - b. Set for sampling Nasopharyngeal swab (NPS) or Oropharyngeal swab and VTM
 - c. Triple packaging set for transportation of samples
 - d. Biohazard waste

3. All monitoring sheet and progress report for each PUI shall be reported to PKD and State CPRC on daily basis.

Preparation of Clinical Sample Process at Field

1. Identify team consist of Epidemiologist/ Supervisor, Medical Officer, Paramedic and Assistant Environmental Officer. The role of the team are as stated below:
 - a. Epidemiologist/ Team Leader
 - a. To do risk assessment and guide team on setting up area for NPS/OPS
 - b. To do risk communication to patient, other family members in the household and neighbours if around.
 - c. To guide team on Donning/Doffing PPE as stated in Annex 8.

 - b. Medical Officer
 - a. The person who will do the NPS/OPS
 - b. To brief patient on the procedure process
 - c. To set up clean area for sampling process

 - c. Paramedics
 - a. The person who will do the NPS/OPS
 - b. To assist MO in fulfilling the laboratory request form beforehand
 - c. To label the specimen bottle before entering 'dirty area'

- d. To bring all the equipment as listed below in an appropriate bag. Do not rest the bag at any place at the 'dirty area'.
 - e. To assist MO in sampling process and specimen packaging.
- d. Assistant Environmental Officer
- a. The person who will do the NPS/OPS
 - b. To documented names of HCW who handle the specimens.
 - c. To become documenter for any activities.
 - d. To assist epidemiologist in monitoring the safety procedures of the sampling activities

The role of staff will be change according to situation and needs.

2. Identify number of cases that need to be sample at the field. Fill in the line-listing form as **Reten Keputusan Ujian Makmal COVID-19**
3. Identify the type of sample need to be taken. Refer **Annex 5a: Guideline on Laboratory Testing For COVID-19 For Patients Under Investigation** and prepare Viral Transport Media, Container dan Packaging materials.
4. Fill in the laboratory request form and label at specimen container before entering the dirty area.
5. Documented the name of Health Care Worker who involve in the activities and fill in the **Monitoring Form for Personnel Potentially Exposed to COVID-19**.
6. Prepare PPE and Items for biological sampling as listed in the **LIST OF COVID-19 FIELD SAMPLING EQUIPMENT AND PPE**.
7. Continue with the clinical sampling procedure at the field.

Clinical Sampling Procedure at The Field

- i. Use full PPE for Medical Officer and Paramedic.
- ii. Get permission to enter the house/hotel/patient's compound before going to field. Ensure that the person is agreeable and available. (If the patient refuse, lodge police report.
- iii. Enter the compound and explain to the patient the sampling procedure and find the suitable place to do the procedure.
- iv. Epidemiologist/Supervisor to do risk assessment and brief team on the process.
- v. Choose appropriate place with good ventilation.
- vi. Medical officer to set up the clean area to place the tools. The clean area is determined by the line boundary of the paper.
- vii. Prepare the biohazard waste bag for disposal of contaminated items.
- viii. Explain the sampling procedure to patient
- ix. Medical Officer (dirty hand) to take clinical sample following the procedure as stated in **Annex 5b: Laboratory Testing For Patient**.
- x. Take Nasopharyngeal Swab and Oropharyngeal Swab and put in one VTM. Recap the specimen bottle tightly.

- xi. Remove 2nd layer glove and disinfect the first layer glove with hand sanitizer (poured by the assistant (clean hand).
- xii. Paramedic to pass the second glove to be wear by the Medical Officer.
- xiii. Medical officer to wrap the primary container with absorbent packing material.
- xiv. Paramedic to open secondary container that already pre label and received the primary container from the Medical Officer.
- xv. Paramedic to seal the second container and sterilized with sanitizing wipes tissue.
- xvi. Paramedic to place the sample in the outer container that had Biohazard Label.
- xvii. Medical Officer to explain to patient that the procedure is completed.
- xviii. Documenter to document all the process and document the number of specimen taken.
- xix. Epidemiologist to instruct the team to wrap all the tools and throw into biohazard waste bag.
- xx. Team to go out from dirty area and doffing as guided by epidemiologist.
- xxi. Transport specimen to the receiving laboratory as in **Annex 4a: Agihan Makmal yang Menjalankan Ujian COVID-19.**
- xxii. All team to undergone daily health surveillance as per stated in (Annex 21)

6.1 LIST OF COVID-19 FIELD SAMPLING EQUIPMENT AND PPE.

a. Medical Officer (Dirty Hand)

No.	ITEM	QUANTITY
1	A3-sized White Paper/ non-absorbable paper	2
2	Gauze	4
3	Boot Cover	2
4	N95 face mask	1
5	Head cover	1
6	3-ply surgical mask	1
7	Eye shield/ face shield	1
8	Non-sterile glove	2
9	Surgical glove	1
10	Apron	1
11	Hand rub	1
12	Clinical bag (Yellow bag)	1
13	Pen	1

b. Paramedic (Clean Hand)

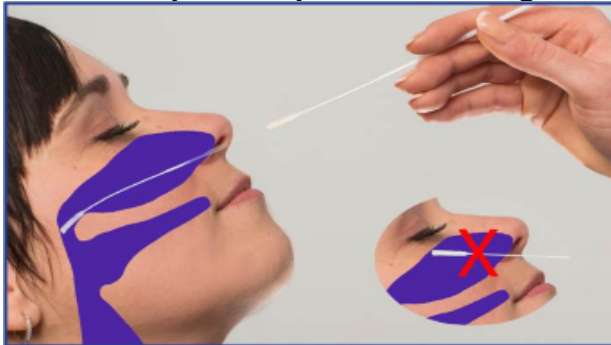
No.	ITEM	QUANTITY
1	A3-sized White Paper	1
2	Viral Transport Media	2
3	Gauze	4
4	Boot Cover	2
5	N95 face mask	1

6	Head cover	1
7	3-ply surgical mask	1
8	Eye shield/ face shield	1
9	Non-sterile glove	2
10	Surgical glove	1
11	Apron	1
12	Hand rub	1
13	Biohazard specimen zipper bag	2

c. Assistant Environmental Health Officer (Documentor)

No.	ITEM	QUANTITY
1	A3-sized White Paper	1
2	Boot Cover	2
3	N95 face mask	1
4	Head cover	1
5	3-ply surgical mask	1
6	Eye shield/ face shield	1
7	Non-sterile glove	2
8	Surgical glove	1
9	Apron	1
10	Hand rub	1
11	Biohazard specimen zipper bag	2
12	Specimen container	
13	Woven bag	1
14	Adhesive Tape	1
15	Clerking Sheet	1
16	Lab Request Form	1
17	Tranparent zipper bag (A4 sized)	1
18	Pen	1

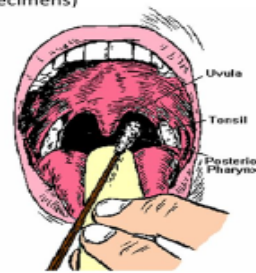
6.2 Technique for specimen Taking OPS/ NPS



Oropharyngeal Swab

(preferred specimens)

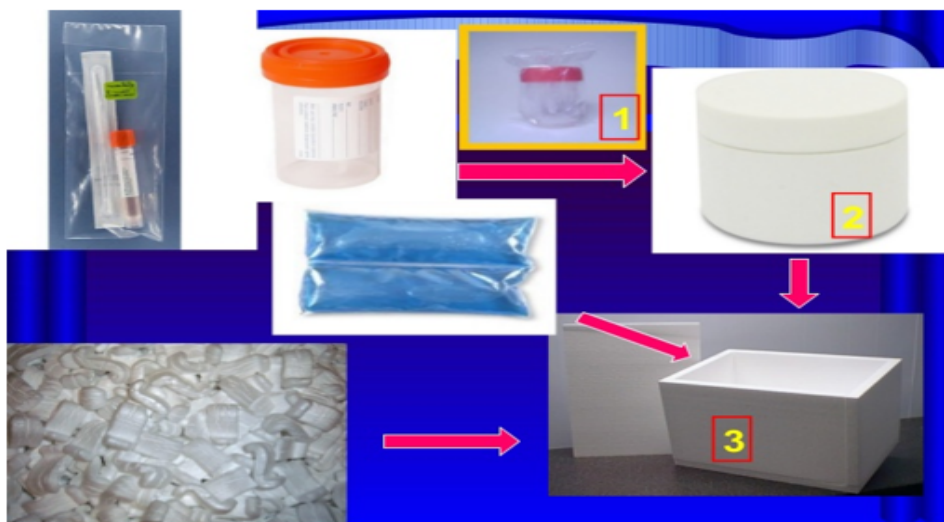
1. Ask the subject to open his or her mouth
2. Depress the tongue
3. Swab the posterior pharynx behind the tonsils
4. Avoid the tonsils



* Contact referring Microbiologist at your state for further training and information

6.3 Example of Triple Packaging Container

TRIPLE PACKAGING



6.4 Reten Keputusan Ujian Makmal COVID-19 dari Makmal ke CPRC Negeri

Nama Hospital/ Makmal : _____

Tarikh: _____

Keputusan Ujian COVID-19 PCR

Bil	Nombor Makmal	ID/ IC Pesakit	Nama Pesakit	Umur (Tahun)	Jantina	Pemohon (JKN/PKD/KK)	Keputusan	Warga negara	Symptom	Tarikh sampel diambil	Tarikh sampel diterima	Tarikh Ujian dijalankan
1												
2												
3												

* Keputusan ujian telah verify oleh MKAK/ IMR

Disediakan oleh :

Disemak oleh :

Disahkan oleh :

***Sampel Positif** – semua sampel positif hendaklah dihantar kepada MKAK dan IMR bagi tujuan virus isolasi.

Input SIMKA:

Keputusan positif – key in SIMKA selepas press conference dijalankan

Keputusan negative – setelah mendapat kebenaran dari Pengarah masing-masing

7.6 Reten Keputusan Ujian Makmal COVID-19 dari CPRC Negeri ke CPRC KKM

Nama CPRC Negeri : _____

Tarikh: _____

Keputusan Ujian COVID-19 PCR

Bil	Nombor Makmal	ID/ IC Pesakit	Nama Pesakit	Umur (Tahun)	Jantina	Pemohon (JKN/PKD/KK)	Keputusan	Warga negara	Symptom	Tarikh sampel diambil	Tarikh sampel diterima	Tarikh Ujian dijalankan
1												
2												
3												

* Keputusan ujian telah verify oleh MKAK/ IMR

Disediakan oleh :

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Disahkan oleh :