GOVERNMENT OF ANDHRA PRADESH
HEALTH MEDICAL & FAMILY WELFARE DEPARTMENT

Order No.30/COVID-19/2020,   Date: 19.4.2020

COVID INSTANT ORDER - 30

Sub: COVID-19 –Testing using Rapid Diagnostic Kits (RDK)- Addl. Instructions – Issued - Reg

Ref: 1) COVID Order 26 dated 13.04 2020
        2) ICMR Rapid Antibody Tests protocol in Red Zones issued vide DO VIR/4/2020/ECD-1(Vol.I) dated 17th April 2020

In continuation of the orders at reference 1 and in the light of the new testing protocols suggested by ICMR, the following additional instructions for testing using the Rapid diagnostic kits (RDK) are issued. The Gold standard for COVID 19 testing is the RT-PCR based molecular test which is the only confirmatory test available for COVID 19. However, the RDK testing, the results of which are based on the presence of antibodies i.e. IGM/IGG or both have to be validated by use of RT-PCR where ever warranted on the basis of medical advice. The RDK test kits validated by ICMR are procured by the state or in some cases supplied directly by GOI. The rapid tests are found useful for broad surveillance purposes and/or testing on population who are residing in the containment clusters/red zones prone to high rates of infection.

The results of RDK shall not be treated as any confirmation for COVID 19 and shall be used for the purposes of screening in Containment clusters and surveillance only.

1. Where all RDK tests will be done in Phase I

Currently a total of 116800 test kits approx. are available for use in Phase I. More kits will be made available in the short run. The Phase I use of RDK shall be in various containment clusters across the affected mandals as well as for screening of high risk health care workers and others exposed to the risk of COVID 19. As of now a total of 97 mandals are affected with cases diagnosed. As new hotpots emerge the same will be modified and tested.

2. Who all will be tested
A. Health Care workers(HCWs allotted 16800 RDK)
All the health care workers (HCW) and others as mentioned below will be subjected to the RDK tests. They should preferably be tested after 7 days of the possible contact or dealing with a COVID 19 patient/suspect to ensure presence of antibodies if the HCW has acquired the infection. The following categories will be tested:

1. Doctors/Nurses/Other paramedics Who havehandled the RT-PCR Positive Patients at the designated COVID hospitals
2. Health care workers in Sample collection centres and laboratories i.e. Doctors/Nurses/LTs/Other staff who are working at the VRDL labs/personal involved in the transportation of samples / RT-PCR sample collection centres/ mobile sample collection units/TruNAT centres
3. Medical and Other personnel working at the Quarantine centres
4. Frontline health workers working within the containment clusters

B. Active Surveillance and Screening in the Containment Clusters -70000

An active house to house survey shall be mounted by theScreening teams headed by the MO of the Sector**within the containment cluster and shall be screened using RDK antibody kits.**The following categories of people shall be tested as per the below mentioned priority for mild symptoms or for persons who have a high risk of contracting the disease as mentioned below:

1) Households with persons with ILI symptoms(Mild Symptomatic) preferable to use RDK tests after 7 days of symptoms to avoid false negatives
2) Households with highly vulnerable adult population i.e 60+ yrs. with co morbidities.
3) Households with vulnerable adult population i.e. 60+ yrs.
4) Households with vulnerable population i.e. persons with co-morbidities
5) Households/People kept under home surveillance

The screening within the buffer zones will be done only for ILI cases preferably after 7 days of contacting the symptoms.

C. Fever Surveillance Cases
Cases which were already identified with mild symptoms in the 3 rounds of fever Surveillance shall also be tested using RDK for antibodies. A total of 27705 are pending for testing which shall be completed.

3. How to Interpret the result of RDK

The RDK testing algorithm for interpreting the IGM/IGG antibodies and action expected as per protocol is given at Annexure-1.

4. Training of MOs and Uploading of results in the MIS Application
- A medical team led by an MO and ANM along with the concerned Volunteer shall conduct the active surveillance and testing with RDK.

They shall be trained at the district level by the MO/s who have been already trained at the state HQ

- In Volunteer mobile Application under "Service Delivery (Sevalu Delivery)" module "COVID-19 RAPID TEST" menu enabled.
- Upon opening this module the team will find 2 options
  - Search with Aadhaar(Used for HCW and active surveillance/screening)
    - By providing Aadhaar, citizen profile can be searched and test result may be submitted.
  - List of Households to be tested as per fever survey
    This data is prepopulated in the App already
    - All the members displayed in the list must be tested and result shall be updated.
- A provision is given in Volunteer Mobile application to submit Rapid Test Results.
- Report of the test results submitted can be viewed from below link
  https://gramawardsachivalayam.ap.gov.in/GSWSDASHBOARD/#!/CovidSymptomaticReport

5. Allotment of RDK
The allotment of RDK for the various categories in 2 above is given at Annexure 2

All district collectors and DMHOs shall take immediate action to operationalise the above guidelines immediately.
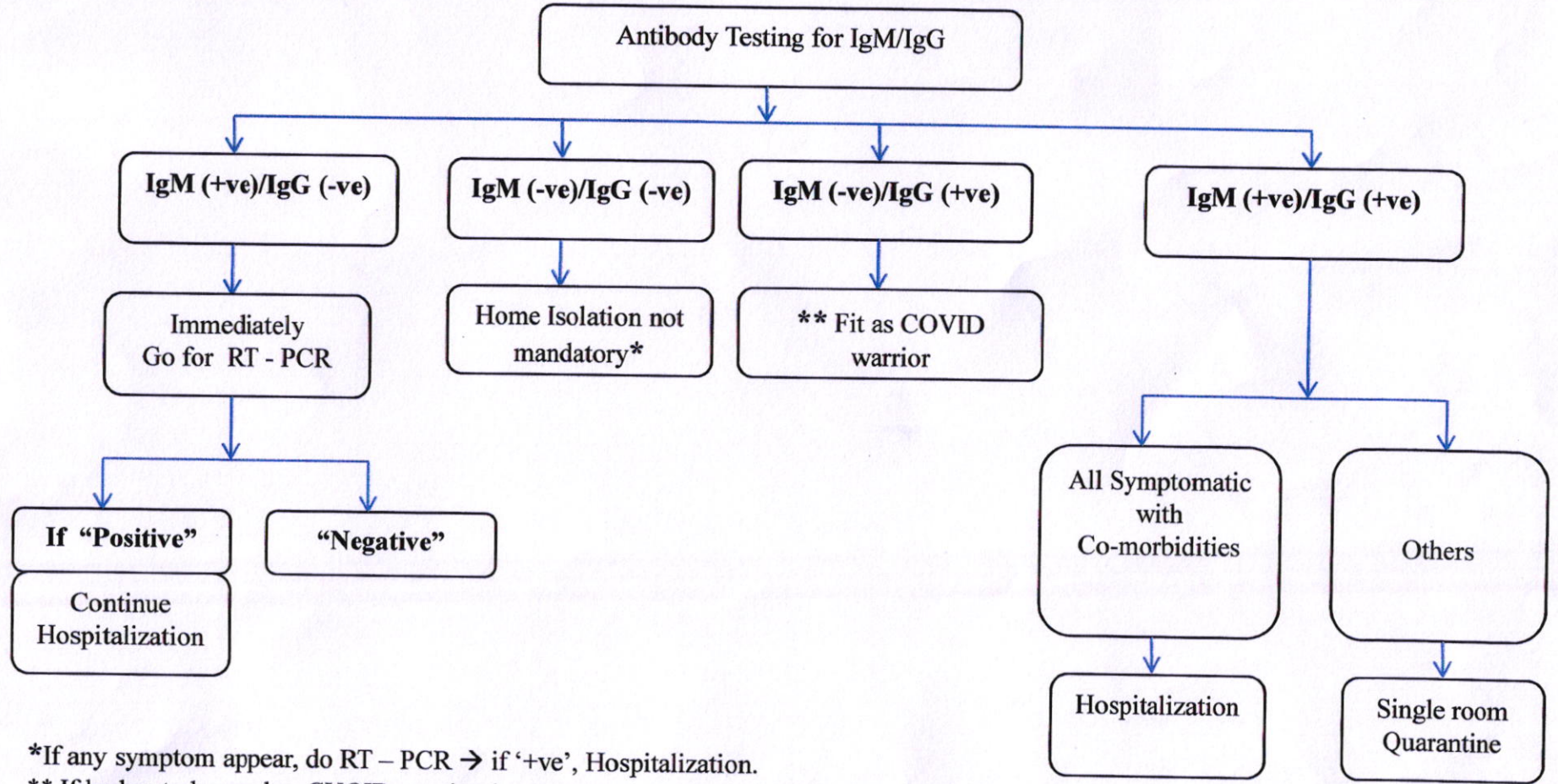
SPECIAL CHIEF SECRETARY

Encl : Annexure - I & Annexure - II

Copy to:

1. Chief Secretary to Govt of AP for kind information
2. Commissioner Health for operationalizing the guidelines
3. All District Collectors for necessary action
4. Director Health/SSO to coordinate the training of MOs
5. DMHO of all districts

Blood based - Rapid Antibody Testing Algorithm

Individual suffering from fever, cough & Cold

Antibody Testing for IgM/IgG

| IgM (+ve)/IgG (-ve) | IgM (-ve)/IgG (-ve) | IgM (-ve)/IgG (+ve) | IgM (+ve)/IgG (+ve) |

IgM (+ve)/IgG (-ve)
→ Immediately Go for RT - PCR
→ If "Positive" → Continue Hospitalization
→ "Negative"

IgM (-ve)/IgG (-ve)
→ Home Isolation not mandatory*

IgM (-ve)/IgG (+ve)
→ ** Fit as COVID warrior

IgM (+ve)/IgG (+ve)
→ All Symptomatic with Co-morbidities → Hospitalization
→ Others → Single room Quarantine

*If any symptom appear, do RT – PCR → if '+ve', Hospitalization.
** If he has to be used as CVOID warrior, he must test '–ve' in RT – PCR.

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S.No	District	Effected Mandal	Alltoted RDK Kits for symptomatic survey / surveillance	Alltoted RDK Kits for symptomatic cases identifed during fever survey	Alltoted RDK Kits to Healthcare Workers in Hospitals
1	Kurnool	Kurnool	3000		
		Panyam	350		
		Nandyal	1300		
		Atmakur	300		
		Banaganapalle	700		
		Nandikotkur	350		
		Sirvel	250		
		Kodumur	300		
		Chagalamarri	200		
		Uyyalawada	100		
		Gudur	50		
		Gadivemula	200		
		Owk	200		
		Orvakal	250		
		Pedda Kadubur	250		
		Bethamcherla	400		
		Yemmiganur	400		
	Kurnool Total		**8600**	**2025**	**1450**
2	Guntur	Guntur	4500		
		Atchampet	450		
		Macherla	400		
		Narasaraopet	700		
		Ponnur	400		
		Mangalagiri	300		
		Karempudi	200		
		Medikonduru	250		
		Krosuru	250		
		Chebrolu	300		
		Dachepalle	350		
		Tadepalle	250		
	Guntur Total		**8350**	**2795**	**1450**
3	Krishna	Vijayawada (U)	6000		
		Nuzvid	350		
		Jaggayyapeta	350		
		Penamaluru	1000		
		Machilipatnam	1100		
	Krishna Total		**8800**	**2722**	**1500**
4	Nellore	Naidupet	250		
		Vakadu	250		
		Tada	300		
		Nellore	3000		
		BuchiRed Zone (Hot Spot)dipalem	500		
		Allur	200		
		Indukurpet	250		
		Balayapalle	150		
		Ojili	150		

		Bogole	200		
		Thotapalligudur	200		
		Gudur	200		
		Kovur	300		
		Kavali	400		
	Nellore Total		**6350**	**966**	**1500**
5	Prakasam	Ongole	1500		
		Karamchedu	250		
		Chirala	500		
		Kandukur	250		
		Korisapadu	200		
		Gudluru	200		
		Podili	300		
		Kanigiri	200		
		Markapur	300		
	Prakasam Total		**3700**	**1593**	**1450**
6	Anantapur	Hindupur	1000		
		Kalyandurg	250		
		Anantapuram	1500		
		Kothacheruvu	150		
		Settur	200		
	Anantapur Total		**3100**	**2683**	**1450**
7	Chittoor	Srikalahasti	500		
		Nagari	400		
		Vadamalapeta	250		
		Renigunta	550		
		Tirupati (Urban)	2000		
		Palamaner	200		
		Nindra	100		
		Yerpedu	250		
	Chittoor Total		**4250**	**2104**	**1500**
8	East Godavari	Sankhavaram	350		
		Kakinada (R)	1100		
		Kothapeta	350		
		Addateegala	150		
		Pithapuram	200		
		Peddapuram	200		
		Rajahmundry (U)	1300		
		Rajahmundry (R)	650		
	East Godavari Total		**4300**	**2123**	**1000**
9	Kadapa	Badvel	450		
		Proddatur	1100		
		Pulivendla	450		
		Yerraguntla	200		
		Ysr Kadapa	2200		
		S.Mydukur	190		
		Vempalle	200		
	Kadapa Total		**4790**	**1971**	**1000**
10	Visakhapatnam	Padmanabham	350		
		Narsipatnam	400		
		Visakhapatnam (U)	12800		
	Visakhapatnam Total		**13550**	**1674**	**1500**

11	West Godavari	Penugonda	500		
		Eluru	1110		
		Tadepalligudem	700		
		Undi	300		
		Bhimadole	300		
		Akividu	300		
		Narasapuram	250		
		Bhimavaram	550		
		Kovvur	200		
West Godavari Total			4210	3364	1000
Srikakulam			0	2948	1000
Vizianagaram			0	737	1000
Grand Total			70000	27705	16800