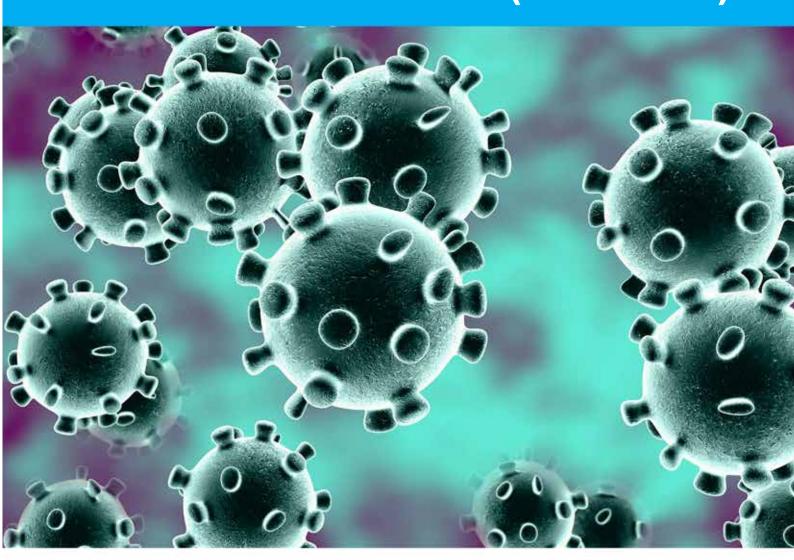




بروتوكول علاج فيروس كورونا المستجد

(covid-19)



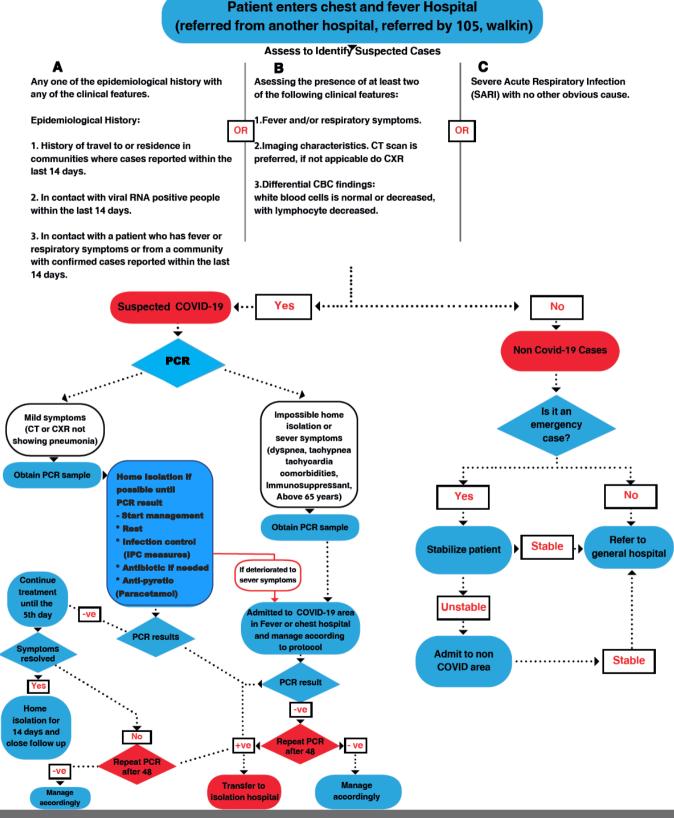
مع تحيات:

وحدة التعليم الإليكترونى بكلية الكوت الجامعة

COVID-19

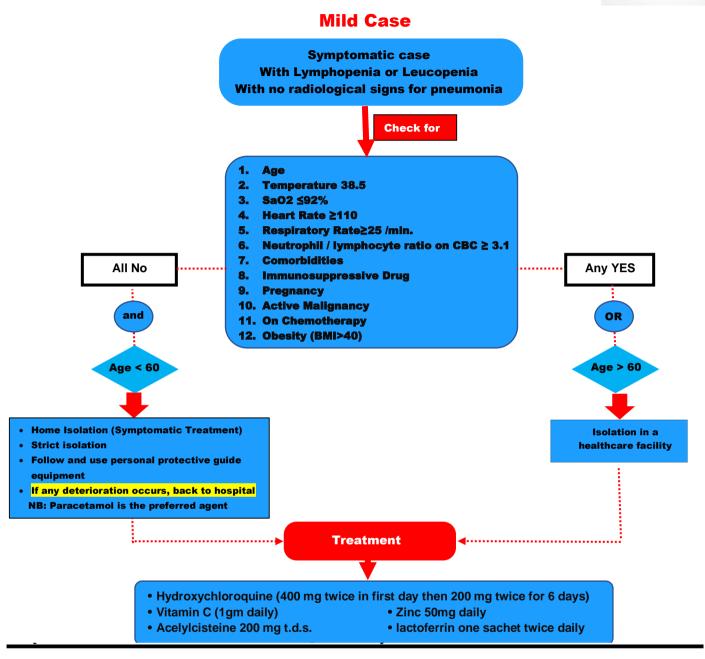
كلية الكوت الجامعة

Suspected COVID-19 Cases Management in Triage Hospitals



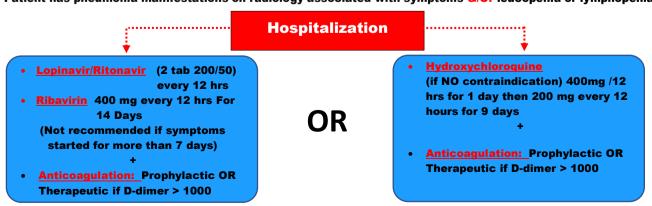
- Asymptomatic contact to +ve case should undergo home isolation and should seek medical advice whenever symptoms develop.
- Healthcare providers exposed to suspected or confirmed COVID-19 cases should follow the algorithim shown in MOHP guide booklet.





Moderate Case

Patient has pneumonia manifestations on radiology associated with symptoms &/Or leucopenia or lymphopenia



Steroids if patients is dyspneic or CT SCAN showed significant deterioration





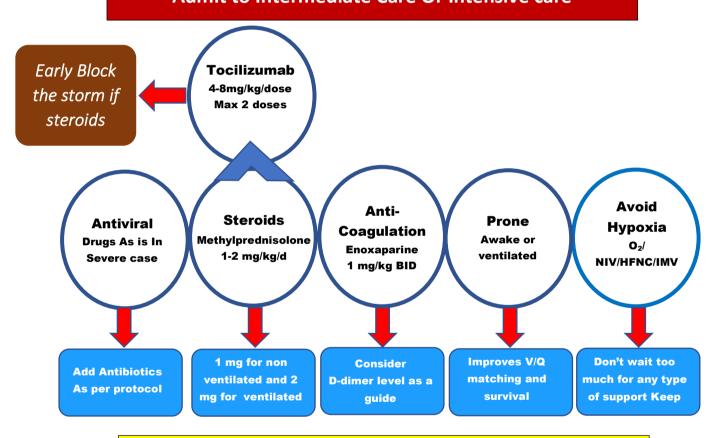
Severe and Critically III Case

If any of the following criteria is present

- 1. RR > 30
- 2. Sa02 < 92 at room air

- 3. PaO₂/FiO₂ ratio < 300
- 4. Chest radiology showing more than 50% lesion or progressive lesion within 24 to 48 hrs
- 5. Critically ill if SaO₂ <92, or RR>30, or PaO₂/FiO₂ ratio < 200 despite Oxygen Therapy.

Admit to Intermediate Care Or Intensive care



COVID 19 Critical Care Chain of Survival

Antiviral drugs Lopinavir/Ritonavir (2 tab 200/50) every 12 hrs. + Ribavirin 400 mg /12 hrs

- - + Interferon beta 1b + Azithromycin (500mg daily) or doxycycline (200mg first day then 100mg daily OR

NB: Remdesivir if available: 200 mg day 1 then 100 mg daily for 9 days



- **Hydroxychloroquine (if NO** contraindication) 400mg /12 hrs for 1 day then 200 mg every 12 hours for 9 days +
- Lopinavir/Ritonavir (2tab 200/50) every 12 hrs.+
- **Doxycline or azithromycin**

PCR Positive Cases

COVID-19



Non Invasive Ventilation or High flow nasal cannula (HFNC):

- Conscious patients with minimal secretions.
- Hypoxia SpO2 < 90% on oxygen.Or hypercapnia >40 cmH2O provided pH 7.3 and above.
- NIV trial shall be short with ABG 30 minutes apart.
- Any deterioration in blood gases from baseline or oxygen saturation or consciousness level shift to IMV.
- CPAP gradually increased from 5-10 cmH20.
- Pressure support from 10-15 cm H2O.
- HFNC can be alternative to NIV.

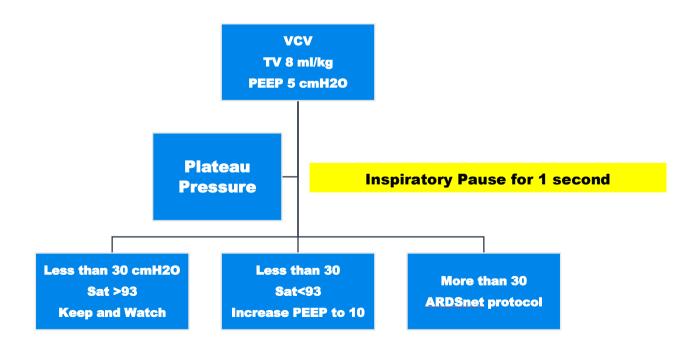
Invasive Mechanical ventilation:

Use PPE specially goggles during intubation and avoid bagging.

Indications:

- Failed NIV or not available or not practical.
- PO2 < 60 mmhg despite oxygen supplementation.
- Progressive Hypercapnia.
- Respiratory acidosis (PH < 7.30).
- Progressive or refractory septic shock.
- Disturbed consciousness level (GCS ≤ 8) or deterioration in consciousness level from baseline.

Step 1: Initiation of Invasive Mechanical ventilation



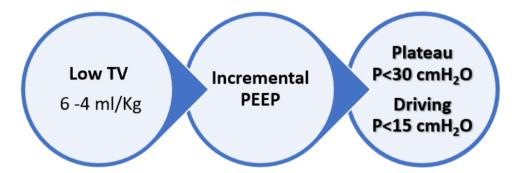




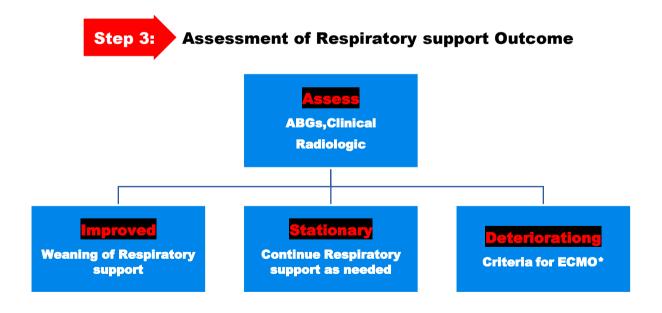


Step 2: Shift to ARDSNet protocol if needed

ARDSNet protocol:



Start with tidal volume of 6 ml/Kg to keep plateau pressure on volume controlled ventilation (VCV) below 30 cmH₂O, decrease to 4 ml/kg if the plateau remain higher than 30 allow permissive hypercapnia so long the pH is above 7.3 compensate by increasing respiratory rate up to 30 breath/minute. Consider heavy sedation and paralysis. If pressures are high or any evidence of barotrauma shift to pressure controlled ventilation and be cautious about low tidal volume alarms for fear of unnoticed endotracheal tube obstruction. Consider ECMO early if eligible. Increase PEEP gradually if the patient remains hypoxic according to FIO₂ level to keep driving pressure < 15cmH₂O. NEVER FORGET PRONE POSITION.



*Criteria for VV ECMO: Age below 55, Mechanical ventilation duration less than 7 days, No comorbidities, Preserved consciousness level, PaO₂/FiO₂ <100 despite prone RESPscore >0. Expert opinion is needed and depends on availability.