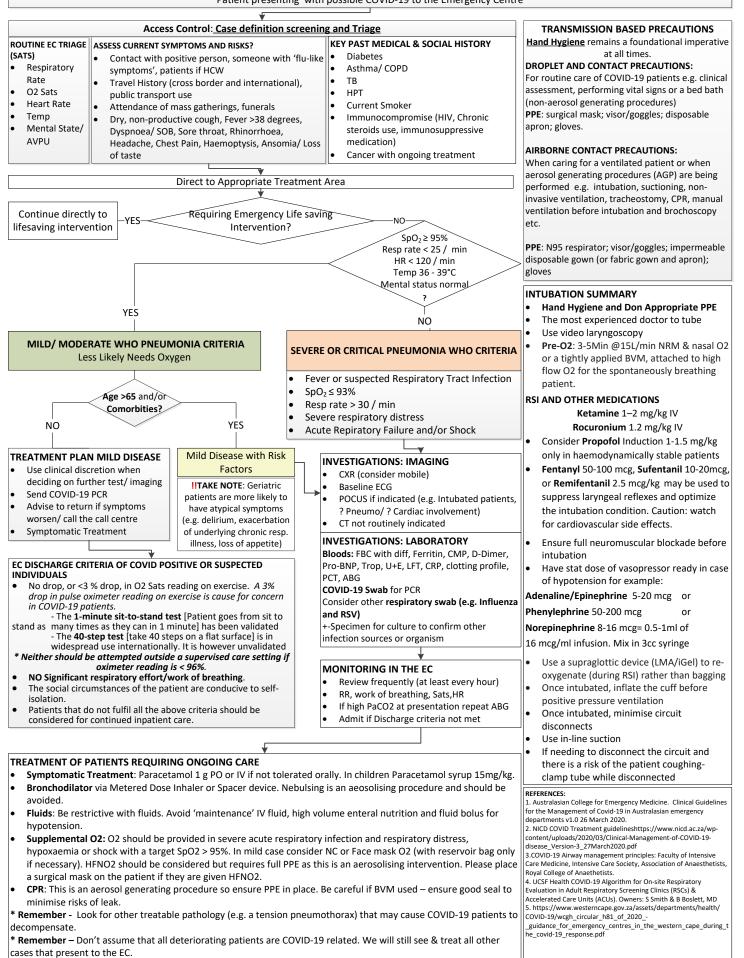
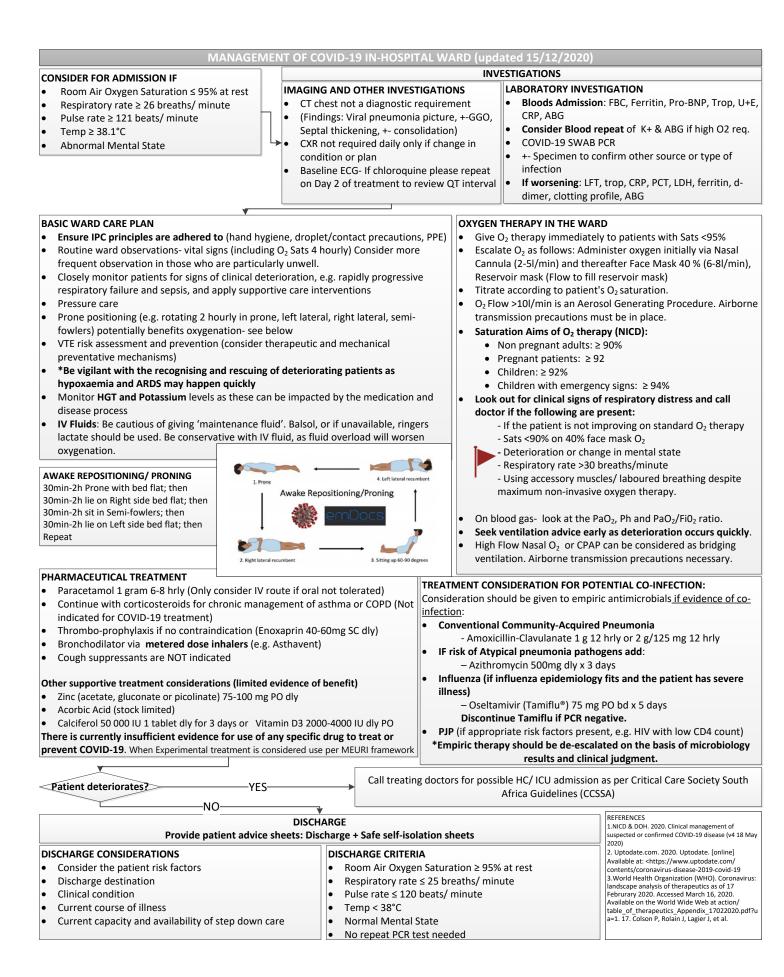
EMERGENCY CENTRE MANAGEMENT OF COVID-19 (updated 15/12/2020 Patient presenting with possible COVID-19 to the Emergency Centre





MANAGEMENT C	OF COVID-19 IN-HOSP	PITAL ICU (updated 15/12/20)			
ICU ADMISSION CRITERIA MET (CCSSA ALGC		ENT)		OXYGENATION	
ROUTINE ICU CARE ACTIVITIES 1. Haemodynamic monitoring, assessment and intervention * NOTE THAT COVID-19 PATIENTS DETERIORATE QUICKLY * Watch for Photom phonormalities particularly there are result of a medication side offect or as a result of hypokalaemia				 Ensure adequate oxygenation and hemodynamic support during acute phase of illness is crucial. Oxygen therapy is likely to be the single most effective supportive measure in COVID-19 patients overall: Aim for a SpO₂ of: Non pregnant adults: ≥ 90% Pregnant patients: ≥ 92 – 95% Children: ≥ 90% 	
 * Watch for Rhythm abnormalities particularly those as result of a medication side effect or as a result of hypokalaemia. 2. Aspiration prevention 3. Reduce HAI by consistently performing the bundle elements 4. Pressure Care 5. VTE assessment and prevention 6. Optimise Nutrition 					
 Blood Glucose Monitoring as some medications used in COVID-19 treatment can cause glucose abnormalities. Monitor Potassium levels as there is a increased risk of hypokalemia in COVID-19 patients Strict monitoring of Fluid Balance. In ARDS patients aim for a neutral to 500ml negative fluid balance. Judicious fluid therapy: ensure adequate intravascular volume as patients may be hypovolemic. Avoid fluid overload. 				Children with emergency signs: ≥ 94% TRANSMISSION BASED PRECAUTIONS <u>Hand Hygiene</u> remains a foundational imperative at all times.	
11. Daily SOFA scores		TACT PRECAUTIONS:			
INVESTIGATIONS LABORATORY Bloods Admission: FBC with diff, Ferritin, CMP, D-Dimer, Pro-BNP, Trop, U+E, CRP, clotting profile, PCT, ABG Bloods Daily: FBC, Magnesium, U+E Blood every other day: LFT, LDH, CRP, Ferritin If deteriorating: LFT, U+E, Trop, CRP, ProBNP, PCT, LDH, Ferritin, Clotting profile COVID-19 Nasal Swab PCR +- Specimen to confirm other source or type of infection INVESTIGATIONS IMAGING AND OTHER Chest X-ray with repeat Chest X-ray only necessary if the patient deteriorates. Consider beside rather than moving patient to radiology CT chest: not a diagnostic requirement and also cannot be done bedside Point of Care USS (POCUS) if indicated CoviD-19 Nasal Swab PCR COVID-19 Nasal Sw		For routine care of COVID-19 patients e.g. clinical assessment, performing vital signs or a bed bath (non-aerosol generating procedures) PPE: surgical mask; visor/goggles; disposable apron; gloves. AIRBORNE CONTACT PRECAUTIONS: When caring for a ventilated patient or when aerosol generating procedures (AGP) are being performed e.g. intubation, surctioning non-invasive ventilation			
TREAT			suctioning, non-invasive ventilation, tracheostomy, CPR, manual ventilation		
RESPIRATORY CARE Call for help if PAO2 <72kpa or 9.5mmHg or requiring >40% O2. Respiratory Management of Patients unable to maintain a SpO2 >90% with reservoir bag oxygen mask (15L/min) Self proning is encouraged High flow nasal oxygen cannula (tape into position) under a surgical facemask Nebuliser masks are currently not recommended Use Non-Invasive Ventilation with caution		 FLUIDS Be conservative with fluids in patients- avoid oedema. Consider vasopressors early- avoid excessive fluid loading Consider the use of IV Balsol or if unavailable Ringers Lactate. 	before intubation and brochoscopy etc. PPE: N95 respirator; visor/goggles; impermeable disposable gown (or fabric gown and apron); gloves		
Consider Intubation • Hypoxaemia with severe respiratory distress despite standard O2 therapy • Cardiac dysfunction • Cytokine storm/Hyperinflammatory state		 SEDATION CONSIDERATION: Remifentanyl Propofol (only during first 72 hours) Midazolam (note that this can worser delirium) 			
Commencing Mechanical Ventilation Degree of lung elastance will influence ventilation strategy. Low elastance (alveoli well aerated so good lung compliance) - Will not significantly benefit from lung recruitment strategies - Vt 6-8 ml/kg IBW with PEEP (initiate at 10 cm H2O and titrate) High elastance (alveoli well aerated so good and compliance due to consolidation) - Should benefit from small tidal volumes - Vt 4-6 ml/kg IBW and lung recruitment strategies with PEEP (initiate at 10 cm H2O and titrate) Titrate FiO2 to maintain sat Of 88-90% and aim to get the FiO2 below 0.6 (60%) Permissive hypercapnia provided stable hemodynamically and pH>7.15 If Refractory Hypoxaemia or still requiring an FiO2 > 0.6 consider the following: 1) Titrate PEEP: Increase the PEEP up to 14-16 2) Review sedation and consider increasing 3) Prone patient : Maintain Peak pressure 30 or if obese 34 4) ECMO – only if in registered centre and should commence prior to signs of MODS. Consider Airway Pressure Release Ventilation (APRV) early (Only if treating team are comfortable with APRV ventilation) Limit plateau pressure to 30Cm H20 and driving pressure to 15cm H20 Time high 4 secs Pressure low 0 Time low set on the flow tracing- inspiration occurs at 40% of Peak expiratory flow Trigger lowest setting- allow spontaneous respiration If pCO2 elevated to the extent that pH drops to < 7.3 shorten time high to 3- i.e. increasing the respiratory rate		 NUTRITION IN CRITICAL CARE ENTERAL NUTRITION Enteral nutrition is preferable. Aim to commence within 12 hours of being placed on vent. This can be done through 10-12Fr NGT. Post-pyloric only if NG route fails. Hypocaloric enteral nutrition should be initiated, advanced slowly over 7 days of critical illness to an energy goal of 15-20 kcal/kg actual body weight per day (which should be 70-80% of caloric requirements), with a protein goal of 1.2-2.0 gm/kg Actual body weight per day. Withhold feeds in patients with hemodynamic instability requiring vasopressor support (high or escalating doses), multiple vasopressor agents, or rising lactate levels. It may be initiated/restarted after the patient is adequately resuscitated and/or has been on a stable vasopressor dose with sustained MAP of >65 mmHg. A standard high protein (> 20% protein) polymeric isosmotic enteral formula should be used in the early acute phase of critical illness. As the patient's status improves and vasopressor requirements abate, addition of fiber should be considered. REFEEDING SYNDROME Older patients with co-morbidities are at higher risk of re-feeding syndrome and should be commenced at 25% of caloric goal. Monitor the serum CMP as calories are increased. The first 72hours being the highest risk. TPN If requiring parenteral nutrition this should commence early (in only the high risk- Those with enteral feed intolerance and escalating vasopressors). 			
 Paracetamol 1 gram 6-8 hrly (Only consider IV route if oral not tolerated) Therapeutic anticoagulation for severely hypoxaemic patients with a hyperinflammatory state and elevated D Dimer (>1) unless contra-indicated or requiring dosage adjustment for renal or hepatic dysfunction: Enoxaparin 1mg/kg SC 12 hrly. Bronchodilator via Metered Dose Inhaler (e.g. Asthavent) avoid nebulising as this is an aerosolising procedure! Dexamethasone 6mg IVI dly Vasopressor use: Have a low threshold to initiate rather than excessive fluid loadinG PPI: Consider ulcer prophylaxis if at high risk for stress ulcers Other supportive treatment considerations (limited evidence of benefit) Zinc (acetate, gluconate or picolinate) 75-100 mg PO dly Acorbic Acid 500 mg IV tds dly Calciferol 50 000 IU 1 tablet dly for 3 days or Vitamin D3 2000-4000 IU dly PO Discontinue Tamiflu if PCR negati PJP (if appropriate risk factors present, with low CD4 count) *Empiric therapy should be de-escalated basis of microbiology results and clim judgment. *Empiric therapy should be de-escalated basis of microbiology results and clim judgment. 			of Co-infection: Acquired vulanate 1g 12 hrly ia pathogens add: ly x 3days emiology fits and ss) 75mg PO bd x 5day PCR negative. ors present, e.g. HIV e-escalated on the ults and clinical	1. NICD & DOH. 2020. Clinical management of suspected or confirmed COVID-19 disease 2. Critical acre. org.za. 2020. CCSSA Management Summary COVID-19. 3. 2020. Allocation Of Sacree Critical Care Resources During The COVID-19 Public Health Emergency In South Africa. www.critical care.org.za. 4. 2020. Allocation Of Sacree Critical Care Resources During The COVID-19 Public Health Emergency In South Africa. www.critical care.org.za. 5. 2020. https:// critical care.org.za/wp- content/uploads/2020/07/ 2020-uju/-02-V-3.0-CCSSA- COVID-19-10-UM-Management- Summary.df 6. The Gauteng ICU group: Therapy of CoVID 19 - Version 10 (14 July 2020)	
Myocarditis and elevated troponins (fatal cases) Lymphopaenia (common). Elevated liver enzymes, LDH and CPK Elevated prothrombin time (PT) Acute kidney injury PCT usually normal- if high consider bacteria infection	 PCT usu Finding X-ray ch Septic s 	Dipmer tend to correlate with severity and can a lally normal- if high consider bacteria infection s on CRR/CT Chest: Viral pneumonia picture, +-G hanges may lag improvements in symptoms hock is not common enotes severity of disease			

COVID-19 PALLATIVE CARE: Patients with severe symptoms who are not candidates for critical care admission & ventilation if they deteriorate AIMS OF CARE: Alight treatment decisions with patient and family values Protech heating constructions with patient detection in the details making Protech treating as required to throughout the admission Communicate care doctor / an eastheticity Prevent this document in notes. Assess timeline of Death (1) Lange (1) Careful care doctor / an eastheticity Prevent this document in notes. Communication and spiritual needs Communication and spiritual needs Communication possible Communication possible Protech theating is patient electronically to tai/(liftent to emotional/spiritual supports a protech and possible Protech theating is patient electronically to tai/(liftent to emotional/spiritual supports a protech mark and culturally sensitive information about the Protech mark and culturally sensitive information about the Protech mark and culturally sensitive information about the Protech mark and culturally sensitive information about the fromer documents (1) for an of hity PO PRN Drange and bing to all care docts Admissite fluction per each docts and and exity (l'Deck the strength at which is midd as this will affect the dose prescruled (l'Deck the strength at which	MANAGEMENT OF COVID-19 IN-HOSPITAL PALLIATIVE CARE (review 15/12/20)					
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 Haloperidol 2-5 mg SC; add 5 mg over 24 hours CSCI or Midazolam 5 mg SC 1 hrly until symptoms resolved A Restlessness Stop non-essential drugs Commit excellent symptom management, compassionate 	hours) or	• Supporting: 'I understand that this will be very hard. We will				
 Midazolam 5 mg SC 1 hrly until symptoms resolved A Restlessness Stop non-essential drugs thinking.' Never say: 'There is nothing more we can do for you.' Commit excellent symptom management, compassionate 		· · · · · · · · · · · · · · · · · · ·				
4. Restlessness • Never say: 'There is nothing more we can do for you.' Commit • Never say: 'There is nothing more we can do for you.' Commit • Stop non-essential drugs • excellent symptom management, compassionate						
Stop non-essential drugs excellent symptom management, compassionate		5				
Good hygiene and basic nursing care Consider linking family per phone/WhatsApp/online to say a						
5. Nausea and vomiting final goodbye.						
Metoclopramide 10 mg 8 hrly prn REFERENCES I NICD & DOH: 2020. Clinical management of suspected or confirmed COV/ID-19 disease (
18 May 2020).						
7 Clear Secretions Accessed on 7 April 2020 at https://palprac.org/wp-content/uploads/2020/04/						
PALPRAC Providing-Palliative-Care-in-South-Africa-during-COVID-19-Update-5-April-2020		<u>ALPRAC</u> Providing-Palliative-Care-in-South-Africa-during-COVID-19-Update-5-April-2020- <u>3.pdf</u>				
2. RSA: Gauteng Provice Health. ND. Chris Hani Baragwanath Academic Hospital COVID-		2. RSA: Gauteng Provice Health. ND. Chris Hani Baragwanath Academic Hospital COVID-19				
Standard operating procedure & assessment protocol WELLBEING OF HEALTHCARE WORKERS	WELLBEING OF HEALTHCARE WORKERS	יישטער איז				

- Ensure the demands of your work don't exceed your physical, emotional, psychological and spiritual resources and get help sooner rather than later
- Consciously care for yourself; physically, emotionally, mentally, socially and spiritually

• Be conscious of burnout and its symptoms: Exhaustion (physically, emotionally and spiritually); Feelings of cynicism and indifference towards others; A loss of purpose and a sense of failure as a healthcare worker and as a person; Depression, substance abuse, suicidal ideation

ADDITIONAL USEFUL RESOURCES:

- 1) Critical Care Society of Southern Africa (CCSA) COVID-19 Resources https://criticalcare.org.za/covid-9/
- 2) South African Society of Anaesthesiologists (SASA) COVID-19 Resources https://sasacovid19.com/#guidance-documents