

Suspected or Confirmed COVID-19 Infection in Pregnancy

Algorithm for INPATIENT management

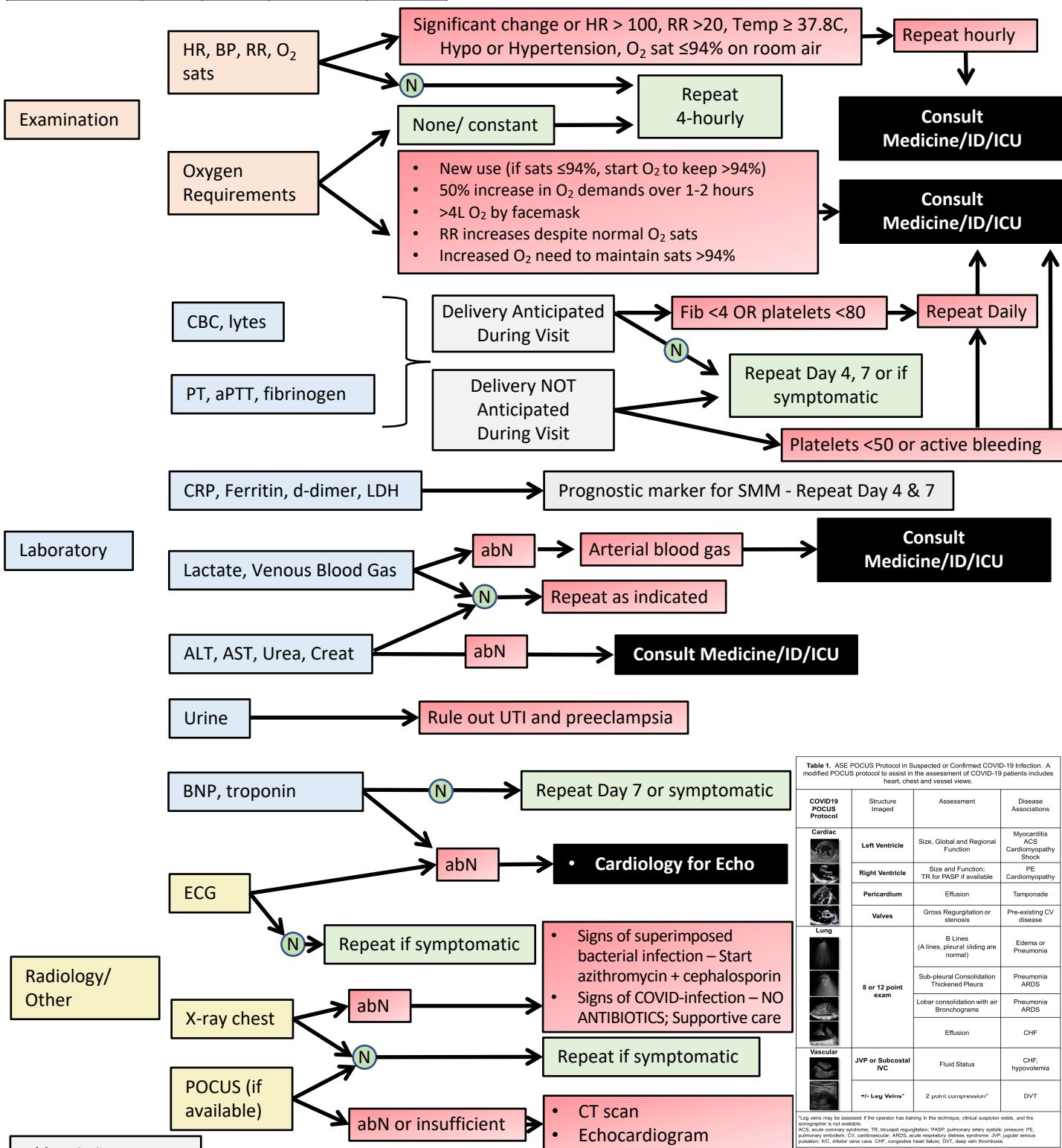
This algorithm is intended for COVID-positive pregnant patients who are deemed unwell enough to require INPATIENT management. The aim is to use clinical signs, laboratory markers and radiologic findings to identify those at risk for serious maternal morbidity/ ICU admission. Please adapt to your center.

Cardinal symptoms – assess daily

Symptom	No (0)	Mild (1)	Moderate (2)	Severe (3)
Fever				
Cough				
Shortness of breath				
Fatigue				
Body pain				
Diarrhoea				

General Management

Start empiric **thromboprophylaxis** (enoxaparin) for the entire duration of hospitalization
For anticipated preterm birth: administer **antenatal corticosteroids**
Judicious use of **intravenous fluids**, based on clinical presentation
Low-dose **aspirin** can be continued
Currently no restriction on **Indomethacin** for tocolysis & **NSAIDs** post-childbirth
Consider limiting **MagSulf** to a 4gm bolus over 1 hour in those with respiratory depression



Abbreviations

BNP: B-type natriuretic peptide
MRP: Most Responsible Physician
POCUS: Point of care ultrasound

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Johri et al 2020 Am Society of Echocardiography Statement on Point-of-Care ultrasound (POCUS) during the 2019 Novel Coronavirus Pandemic

Table 1. ASE POCUS Protocol in Suspected or Confirmed COVID-19 Infection. A modified POCUS protocol to assist in the assessment of COVID-19 patients includes heart, chest and vessel views.

COVID-19 POCUS Protocol	Structure Imaged	Assessment	Disease Associations
Cardiac	Left Ventricle	Size, Global and Regional Function	Myocarditis ACS Cardiomyopathy Shock
	Right Ventricle	Size and Function; TR for PASP if available	PE Cardiomyopathy
	Pericardium	Effusion	Tamponade
	Valves	Gross Regurgitation or stenosis	Pre-existing CV disease
Lung	8 or 12 point exam	B Lines (A lines, pleural sliding are normal)	Edema or Pneumonia
		Sub-pleural Consolidation Thickened Pleura	Pneumonia ARDS
		Lobar consolidation with air Bronchograms	Pneumonia ARDS
Vascular	JVP or Subcostal IVC	Fluid Status	CHF, hypovolemia
	± Leg Veins	2 point ultrasound	DVT

*Leg veins may be assessed if the operator has training in this technique, clinical suspicion exists, and the sonographer is not available.
ACS, acute coronary syndrome; TR, tricuspid regurgitation; PASP, pulmonary artery systolic pressure; PE, pulmonary embolism; CV, cardiovascular; ARDS, acute respiratory distress syndrome; JVP, jugular venous pulsation; IVC, inferior vena cava; CHF, congestive heart failure; DVT, deep vein thrombosis.