

Patient Label

		Presumed or Positive CC	OVID-19 ADMISSION OR	DER SET			
RN Noting	Date Time						
Orders PHYSICIAN'S ORDERS MUST BE SIGNED BY PROVIDER				BY PROVIDER			
	Primary Diagnosis:						
		□ <u>Suspected Covid-19 Case</u> (+ tr	ravel/exposure Hx; Negative Influ	uenza A/B screen &			
		Negative Respiratory Viral Pane	el)				
		\Box <u>Positive Covid-19 Case</u> \Box Confirmed					
		\Box <u>Sepsis</u> , unknown/known cause (+SIRS+ likely source of infection	n + evidence organ dysfunction)			
		Any patient who screens as high I	risk for severe Covid-19 should	be transferred to high level			
		of care (see Table 2 below to categorize patients for early transfer)					
		Table 2: R	tisk Factors for Severe COVII	D-19 Disease			
		Epidemiological – Category 1	Vital Signs – Category 2	Labs – Category 3			
		Age > 55	Respiratory rate > 24 breaths/min	D-dimer > 1000 ng/mL			
		Pre-existing pulmonary disease	Heart rate > 125 beats/min	CPK > twice upper limit of normal			
		Chronic kidney disease Diabetes with A1c > 7.6%	SpO2 < 90% on ambient air	CRP > 100 LDH > 245 U/L			
		History of hypertension		Elevated troponin			
		History of cardiovascular		Admission absolute			
		disease Use of biologics		lymphocyte count < 0.8 Ferritin > 300 ug/L			
		History of transplant or other					
		immunosuppression					
		All patients with HIV (regardless of CD4 count)					
		Secondary Diagnoses:					
		□ Congestive Heart Failure, unspe	ecified □ COPD □ DM				
		□ Other Co-morbid Conditions:					
		Allergies/Reactions:					
		Admission HT: W1	Г				
		□ Admit patient into airborne isolation room with isolation precautions					
		(airborne + contact + face protection). Only dedicated staff should be assigned to thes patients and limit movement within health system to prevent cross contamination and excess use of PPE.					
		Code Status:					
		\Box Full \Box DNR Comfort Care \Box	DNR Comfort Care-arrest	lliative Care			
		\Box Need to discuss status with fami	ly - DISCUSSED With: \Box Patie	ent and/or □ Family			
		Consults: Hospitalist/Intensivist:					
		Other:					

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Olders		PHYSICIAN'S ORDERS MUST BE SIGNED BY PROVIDER		
		 1. × VS q 4 hours, Accurate I & O, Weigh Daily. × Complete SOFA q 4 hours 		
		 2. Oxygen: Titrate oxygen saturation greater than or equal to 90% and monitor oximetry. 		
		Call provider if O2 sat <92% despite > 5 L/min by nasal cannula or NRBFM. If NIV considered, weight risks/benefits to patient and staff and best use of resources.		
		Intubated Covid-19 patients typically require > 1-week ventilatory support so NIV is only a short-term consideration and carries significant risk of aerosolization – staff must be in airborne PPE.		
		Consider transfer to higher level of care/intubation if inflammatory markers rise significantly after admission and/or RR >35-40 bpm, or PaCO2 > 50 with pH <7.30 in non-COPD patient, or PaO2 <65 mm HG or SpO2 >92% on NRBFM		
		 3. X IV access: Large bore 18 G or larger peripheral IV lines with NS at cc/hi Other-Saline lock 4. X Telemetry 		
		 □ Arrhythmias: Monitor and notify provider if rhythm change, SVT, > 6 PVC/min, V-tach, 2nd or 3rd degree AV block, new onset Afib, or bradycardia <50. <u>5.</u> □ Foley cath PRN, then DC within 48 hours or when clinically stable <u>6. Activity</u>: Place and maintain anti-embolic stockings in combination with pharmacological VTE prophylaxis as needed. 		
		Early proning while conscious strongly encouraged if on O2 and Covid suspected		
		\Box Head of bed: 30 degrees or greater \Box HOB exemption from elevation		
		□ Bed rest with bedside commode		
		 <u>7. Diet:</u> (Please select all that apply) □ NPO (except for meds past midnight, if for testing) □ 2 grams salt (Recommended for heart failure) 		
		failure) \Box ADAcalories \Box Other		
		 8. Lab tests on admission (if not done in ED) STAT: CBC with differential, CMP, Serum Lactate, Urine with microscopy X CRP Procalcitonin X Respiratory Viral Panel (Biofire, etc.) X Influenza A/B screen DIC Panel (D-Dimer, PT/PTT/INR) 		
		 ABG Blood Culture x2 sites STAT Sputum Culture (if indicated) Sputum Culture (if indicated) Wound Culture (if indicated) Troponin CPK BNP 		

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ADMISSION ORDERS: Presumed or Positive COVID-19

RN Noting	Date Time	PHYSICIAN'S ORDERS MUST BE SIGNED BY PROVIDER
Noting		Lab Tests on Admission – Continued
		EXAMPLE 12 Read EKG daily NOTE if QTc interval is >470 \Box
		□ Consider Hepatitis panel if LFT's elevated
		$\Box \text{Glucose (if <70 or >300 contact provider for orders)} \Box \text{POC glucose AC and bedtime}$ $\boxed{\times} \text{Repeat CMP and Lactate in 2 hours if initial Lactate was > 2.0}$
		 Continue to repeat CMP and Lactate every 6 hours until Lactate < 2.0; Also continue to check CRP, CPK, and D-dimer levels as significant elevations warrant early transfer to higher level of care.
		9. Radiology:
		\times CXR II or \Box PCXR
		 CT Chest (Negative RT-PCR tests on oropharyngeal swabs despite CT findings suggestive of viral pneumonia have been reported in some patients who ultimately tested positive for SARS-CoV-2
		□ ECHO/Left Ventricular Assessment: <u>10. Other Consults:</u>
		□ Smoking cessation instruction if applicable
		□ PT/OT for functional assessment
		 Pharmacy consult to review meds and assist in monitoring drug therapy and drug-drug interactions or risks of adverse drug reactions. Mediantians
		<u>11. Medications</u> Pharmacologic Treatment of COVID-19
		 For outpatients with COVID-19, we do not recommend therapy. Currently, there are no established antiviral therapies for COVID-19 infection. A number of agents are being investigated based on in vitro or extrapolated evidence. No approved drug treatment but off-label use of some medications being used. Regimens under investigation (excluding vaccine candidates): Sarilumab (antibody against IL-6R-alpha), Nitric Oxide gas inhalation, Remdesivir, Chloroquine or Hydroxychloroquine, monoclonal antibodies from convalescent serum, Lopinavir-Ritonavir combination, Lopinavir-Ritonavir combination + interferon-beta. U.S. Clinical Trials: 12 actively recruiting clinical trials using Sarilumab, Nitric Oxid Gas Inhalation, Remdesivir, Hydroxychloroquine, monoclonal antibodies from convalescent serum or Lopinavir-Ritonavir combination No active therapeutic clinical trial in Kansas as of 3/30/2020
		For patients with mild Covid-19 disease and low risk factors (able to maintain O2 sats >92% on room air or < 3L/min O2 via NC and they have no risk factors for severe diseas - provide supportive care.
		 Management of such patients consists of ensuring appropriate infection control A. Supportive Care: as per your usual protocols Analgesics and Antipyretics (no solid evidence that NSAID's should be avoided) Acetaminophen 325 to 650 mg every 4-6 hrs or 1 g every 6 hrs as needed (max 3-4 g/day) Ibuprofen 200-800 mg every 6 hrs as needed (max 3200 mg/day) Naproxen 250-500 mg every 12 hrs (max 1 g/day)

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ED BY PROVIDER ent is. If no contraindication, and for onsider starting: 20 mg daily COVID-19 disease severity.) In
onsider starting: 20 mg daily COVID-19 disease severity.) In
mune response. If elevated id statins if ALT > 3x ULN. ion is available that may guide nfectious Diseases/Pharmacy,
2 followed by 400 mg daily e chloroquine has activity but preferred. Check ECG prior to on. Risk is increased in patients 50 mg daily days 2-5 NOTE: The hed, and the potential additive refully considered!
end glucocorticoids not be used in are other indications (eg, isease). Glucocorticoids have ity in patients with influenza and ast respiratory syndrome
in increase aerosolization of te bronchospasm. Use of MDI's ulizer therapy.
ergic MDI therapy
if staff using airborne PPE when every 6 hours to max of 6 can use up to 8 inhalations every
phylaxis rather than mechanical preferred. (monitor platelet
graduated compression stockings CrCl < 30 ml/min)

ADMISSION ORDERS: Presumed or Positive COVID-19

	ADMISSION ORDERS: Presumed or +COVID-19 Patients			
RN Noting	Date Time			
Orders		PHYSICIAN'S ORDERS MUST BE SIGNED BY PROVIDER		
		G. Antibiotics - We do not recommend routine antibiotics for patients with COVID-19 unless there is another indication for antibiotics. (Consider broad spectrum coverage based on likely source for infection if procalcitonin levels are > 2 ng/ml)		
		H. Angiotensin-receptor blockers and Angiotensin converting enzyme blockers There is no consensus on whether these drugs would exacerbate or ameliorate COVID-19 disease. No clinical data currently exist to guide the initiation or cessation of these agents in patients with SARS-CoV19 infection.		
		If patients are currently taking these medications for known beneficial indications (HF, HTN, or ischemic heart disease) be advised to continue them. □ ARB/ACEI order:		
		I. Miscellaneous		
		Antacid: Aluminum/Magnesium Hydroxide with Simethicone 30 ml PO QID PRN dyspepsia Famotidine (PEPCID) tablet 20 mg, Oral, TWICE DAILY		
		Sedative/Sleep Aid □ Temazepam (Restoril) mg PO every night as needed for sleep □ Zolpidem (Ambien) 5 mg PO every night as needed for sleep		
		Monitor patient closely for deterioration in condition that may require early determination for transfer to higher levels of care. Use Table 2 above from Mass General.		
	Also, remember that in your sepsis protocol, other considerations for early trans be those with SBP <90 or MAP <65 after 30 ml/kg over 1 hour fluid bolus, vaso required and no ICU level of care onsite, or Lactate >4.0 on initial labs			
		J. Discharge Planning A complete assessment of the patient's psychosocial environment – including identification of a home support system – is essential prior to discharge.		
		1. Discharge criteria Consider discharge for patients' who meet the following clinical criteria: Resolution of fever >48 hours without antipyretics Improvement in illness signs and symptoms (cough, SOB, and oxygen requirement)		

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		Discharge for patients with unstable housing or who leave Against Medical Advice (AMA) – need to develop resources for patients with unstable housing and requests for AMA discharge.
		2. Confirmed COVID-19 Discharge Checklist If unable to complete any components of checklist: review community resources, discuss transportation and post-acute care options with care coordination and consider ongoing hospitalization
		Discharge contingencies
		Verify and document contact number for patient and primary support person; ensure active phone service, voicemail functioning, and language preference correctly documented
		 Verify residence with private room, ability to adhere to home isolation instructions and risk of transmission to persons with immunocompromising conditions in the home Confirm ability to manage ADL/iADLs with degree of support at home
		□ Confirm that patient has resources/social support to receive 1-2 weeks of food and other necessary supplies while under quarantine
		Perform DME needs assessment and consider sponsorship from hospital if item unable to be delivered or obtained by primary support person
		Discharge medications/supplies
		Provide 30-day supply of medications to cover duration of home isolation, recommend meds-to-bed delivery if available
		 Provide a surgical mask as available to infected patients who are discharging home (instructions for use in discharge instructions)
		Transportation
		□ Verify patient has a ride by private vehicle or arrange transportation via ambulance (infected person should wear mask in vehicle)
		Discharge instructions
		□ Counsel patient on voluntary isolation procedures
		Ambulatory follow-up plan
		 Verify and document patient's primary care provider Provide warm handoff via phone or in-basket message to patient's primary care

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PHYSICIAN'S ORDERS M		PHYSICIAN'S ORDERS MUST BE SIGNED BY PROVIDER	
Precautions Related to Self-Isolation/Quarantine following Acute Care			
		If transferring to LTC or Assisted Living, note the CDC recommendations below as well as when removing the patient from Transmission-Based Precautions. The decision to discontinue Transmission-Based Precautions should be made using a test- based strategy or a non-test-based strategy (i.e., time-since-illness-onset and time-since- recovery strategy). Meeting criteria for discontinuation of Transmission-Based Precautions is not a prerequisite for discharge.	
		 Test-based strategy. a-Resolution of fever without the use of fever-reducing medications and b-Improvement in respiratory symptoms (e.g., cough, shortness of breath), and c-Negative results of an FDA Emergency Use Authorized COVID-19 molecular assa for detection of SARS-CoV-2 RNA from at least two consecutive nasopharyngeal swab specimens collected ≥24 hours apart (total of two negative specimens) Non-test-based strategy. a-At least 3 days (72 hours) have passed since recovery defined as resolution of fever without the use of fever-reducing medications and improvement in respiratory symptoms (e.g., cough, shortness of breath); and, b-At least 7 days have passed since symptoms first appeared 	
		When a Testing-Based Strategy is Preferred Hospitalized patients may have longer periods of SARS-CoV-2 RNA detection compared to patients with mild or moderate disease. Severely immunocompromised patients (e.g., medical treatment with immunosuppressive drugs, bone marrow or solid organ transplant recipients, inherited immunodeficiency, poorly controlled HIV) may also have longer periods of SARS-CoV-2 RNA detection and prolonged shedding of infectious recovery. These groups may be contagious for longer than others. In addition, placing a patient in a setting where they will have close contact with individuals at risk for severe disease warrants a conservative approach.	
		The test-based strategy is preferred for discontinuation of transmission-based precautions for patients who are a-Hospitalized or b-Severely immunocompromised or c-Being transferred to a long-term care or assisted living facility	
		If testing is not readily available, facilities should use the non-test-based strategy for discontinuation of Transmission-Based Precautions or extend the period of isolation beyond the non-test-based-strategy duration, on a case by case basis in consultation with local and state public health authorities.	



	A	DMISSION ORDERS: Presumed or +COVID-19 Patients
RN Noting	Date	
Noting Orders	Time	
•••••		PHYSICIAN'S ORDERS MUST BE SIGNED BY PROVIDER
		Additional Orders:
		Provider signature:
		Reviewed and confirmed admission Orders with@
		RN signature:



Table 2: Risk Factors for Severe COVID-19 Disease				
Epidemiological – Category 1	Vital Signs – Category 2	Labs – Category 3		
Age > 55	Respiratory rate > 24 breaths/min	D-dimer > 1000 ng/mL		
Pre-existing pulmonary disease	Heart rate > 125 beats/min	CPK > twice upper limit of normal		
Chronic kidney disease	SpO2 < 90% on ambient air	CRP > 100		
Diabetes with $A1c > 7.6\%$		LDH > 245 U/L		
History of hypertension		Elevated troponin		
History of cardiovascular		Admission absolute		
disease		lymphocyte count < 0.8		
Use of biologics		Ferritin > 300 ug/L		
History of transplant or other				
immunosuppression				
All patients with HIV				
(regardless of CD4 count)				