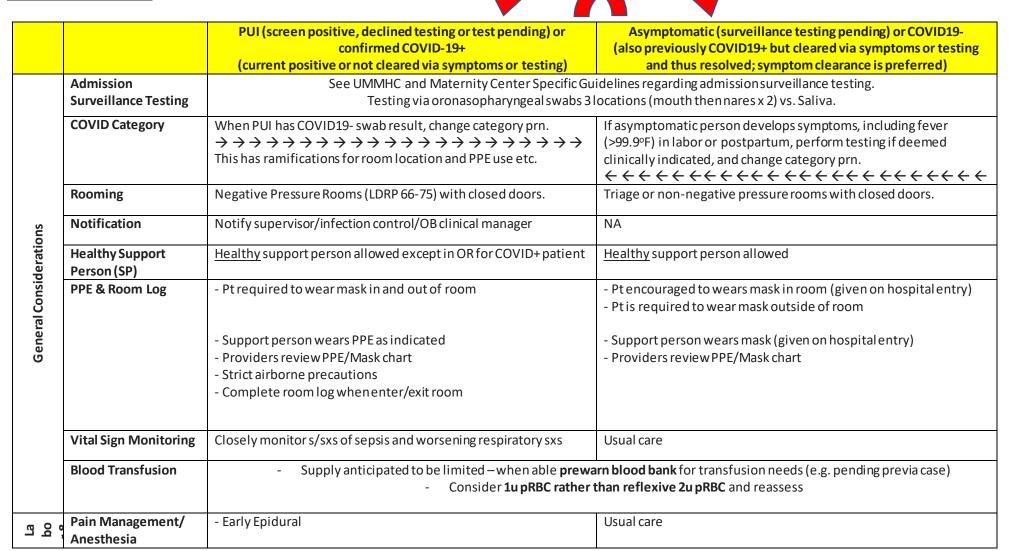


		Every Pregnant Woman & Support Person	
	Anticipatory	All pregnant women are anticipated to have a hospital admission for delivery.	
ital	Guidance - Work	Encourage <b>discontinuation of work/work from home and strict social</b> isolation ≥ 2 weeks prior to anticipated delivery (for majority of women this will start at ~ <b>37 weeks</b> ).	
Pre-Hospital	Anticipatory Guidance - Hgb/Hct	Given concerns for blood availability, optimize maternal Hgb/Hct pre-delivery.	
Pre	Scheduled Procedure	For scheduled procedures (IOL, CD, ECV), phone screen 48-72 hours	
	Pre-Screen	and send to ambulatory tent for testing 48-72 hours prior.	
		- Consider current health care system burden (may prompt acceleration or delay of procedures).	
	Screen and Mask <ul> <li>Pregnant women</li> </ul>	All pregnant women arriving for evaluation to the Maternity Center, regardless of chief complaint, will be given a mask and screened at multiple points which could include E4 Registration desk, and upon meeting receiving nurse.	
Hospital Arrival	<ul> <li>Support person (SP)</li> </ul>	It is our goal for all women to have <u>one</u> support person (≥ 18 y/o) present for labor support. Support persons will be screened and provided a mask. Support persons must be healthy (i.e. screen negative) and can accompany all pregnant persons regardless of the pregnant persons' COVID status. If a support person is screen positive, they cannot come to maternity center excepting conditions outlined in the visitor policy.	
Hosp		Consistent with Phase 2 state MDPH guidelines, in addition to the labor support person, pregnant and postpartum women can have 1 additional visitor at any given time. This person will be screened upon entry and needs to be health. A mask must be worn at all times.	





Standard Obstetric Care:





	<ul> <li>Minimize need for GETA (if needed, most experienced anesthesiologist; other providers exit OR for intubation if able and extubation, no PACU)</li> <li>Avoid Decadron as antiemetic</li> <li>Avoid Toradol with mod-severe sxs</li> </ul>		
Oxygen		as needed for maternal condition <b>prmality<sup>1234</sup></b>	
	- normal maternal O2 sat, no oxygen		
	- abnormal maternal O2 sat, oxygen via NC with maternal surgical mask		
Oral Intake & Fluid Resuscitation	Per UMass guidelines on feeding in labor	Per UMass guidelines on feeding in labor	
	If non-septic, consider total fluid input (IV & PO; consider run dry) If septic, fluid resuscitate as needed	Usual approach to fluid management	
FHR & Ctx	EFM and Toco as usual	Usual care	
Monitoring	FSE & IUPC as needed (data limited and evolving)		
First Stage Labor	- Intrapartum abx ppx if <b>GBS+</b> or risk factors		
(usual approach)	- Upright position recommended as able; walk in delivery room		
	- Peanut ball and birthing balls cannot be recommended and may be a transmission risk		
	- Early amniotomy and oxytocin intervention for ppx and tx of dysfunctional or slow labor recommende		
	- (CD for arrest not performed unless ≥ 4h with adequate ctx or 6h with inadequate ctxs with ROM, and ≥ 6 cm		
Second Stage Labor - Consider aerosolized procedure; wear per PPE/Mask chart		ocedure; wear per PPE/Mask chart	
(Pushing & VD) - No delayed pushing		elayed pushing	
	<ul> <li>Use perineal massage and warm packs to decrease OASIS</li> </ul>		

<sup>&</sup>lt;sup>1</sup> Raghuraman et al. Effect of Oxygen vs Room Air on Intrauterine Fetal Resuscitation: A Randomized Noninferiority Clinical Trial. JAMA Pediatrics 172 (9), 818, 2018 Sept.

<sup>&</sup>lt;sup>2</sup> Boelig RC, Mauck T, Oliver EA, Di Vascio D, Saccone G, Bellussi F, Berghella V. Expert Review – Labor and Delivery Guidance for COVID-19

<sup>&</sup>lt;sup>3</sup> Hamel, Anderson, Rouse. Oxygen for intrauterine resuscitation: of unproved benefit and potentially harmful. Am J Obstet Gynecol 2014 Aug;211(2):124-7

<sup>&</sup>lt;sup>4</sup> <u>https://awhonn.org/novel-coronavirus-covid-19/</u> (AWONN's Update on Oxygen Use for Fetal Resuscitation during the COVID-19 Pandemic, Update March 26, 2020



	- Minir	mize # of providers	
Third Stage Labor	<ul> <li>Standard oxytocin (bolus with slow subsequent continuous infusion) for PPH ppx</li> <li>(if increased EBL or e/o PPH, be quick to administer other uterotonics and TXA)</li> </ul>		
CD	<ul> <li>OR with portable HEPA filter         <ul> <li>filter runs after OR case over</li> <li>subsequently housekeeping goes in for terminal cleaning</li> </ul> </li> <li>Neptune for smoke evacuation (not suction)         <ul> <li>Avoid crash &amp; emergent CD AMAP by anticipating needs</li> <li>Think ahead to OR availability and logistics (call Main OR prn)</li> <li>Wear N95 as per PPE/Mask chart</li> <li>Minimize # of providers</li> <li>Avoid Toradol with mod-severe sxs</li> <li>Avoid Decadron as antiemetic</li> </ul> </li> </ul>	<ul> <li>(- If surveillance testing still pending, tx as PUI in OR but can stinkave labor support person</li> <li> <ul> <li> <li> <li> <li> <li> </li> <li> <li> </li> <li> </li> <li> </li></li></li></li></li></li></ul> </li> <li> Think ahead to OR availability and logistics (call Main OR prn) </li> <li> <ul> <li>Wear mask as per PPE/Mask chart</li> </ul> </li> </ul>	
Code	<b>CODE WHITE PLUS (Level A fit-tested N95)</b> - try to avoid with anticipation of needs and commit to CD once called; leave N95 and face shield on between room and OR	CODE WHITE	
Delayed Cord Clamping <sup>56</sup>	Yes as per usual caveats	Yes as per usual caveats	
Skin to Skin	No	Yes per usual caveats	
Placenta Disposal	Send for pathologic exam and indicate PUI/COVID+ (handled under biosafety hood with PPE until formalin fixation/ viral neutralization)	Usual care	

 <sup>&</sup>lt;sup>5</sup> <u>https://www.acog.org/clinical-information/physician-faqs/covid-19-faqs-for-ob-gyns-obstetrics</u> (ACOG COVID-19 FAQs for Obstetrician-Gynecologists, Obstetrics; Is delayed cord clamping still appropriate in a patient who has suspected or confirmed COVID-19?) Accessed March 26, 2020
 <sup>6</sup> ACOG CO 684 Delayed Umbilical Cord Clamping After Birth Modified: 6/18/2020
 <sup>6</sup> Dury Tifformy A. Magara Cimera AAD, MADL, MAEd



	Research	PUI/COVID+ moms will be approached for participation in research with collection of biologic specimens: vag swab at admission, stool sample at delivery, cord blood, placenta tissue among others Contact: Dr. Leftwich – CARES study	NA
	PP BTL & Immediate PP LARC	If no seps - Postplacental IUD placement p	t to anesthesia availability if not COVID+ sis or chorio: orn (MassHealth, faculty/resident) (MassHealth, faculty/resident)
Neonate	Postpartum Room Neonate Hand-off (Ped/NICU team)	Mother in negative pressure LDRP Rms. 66-75 In Pt Room: Team present in room ideally 6 feet away from pt In OR: Hand infant to NICU team in Resuscitation Area outside OR	Transfer to usual PP Room In Pt Room: Team present in room In OR: whether hand-off in OR or Resuscitation Area outside of OR dependent on CD indication, type of anesthesia and urgency of case
Postpartum & Neonate	Newborn Location/Isolation	<ul> <li>Newborn is a PUI</li> <li>For symptomatic mothers, newborn should be transported in isolette into a separate room, as close to mother's room as possible.</li> <li>No non-medical care in nursery</li> <li>If appropriate negative pressure infant rooms are unavailable, or if mother is asymptomatic and discussion of risks of transmission are undertaken in a shared decision-making model, co-location with mother is permissible, separated by 6 feet and a physical barrier (curtain, isolette)</li> <li>testing of neonate as per pediatric protocol</li> </ul>	<ul> <li>Usual care</li> <li>Mother-child room-in</li> <li>Nurses transport neonate to nursery for care that cannot be performed in the room</li> <li>No non-medical persons in nursery</li> </ul>
	Support Persons (SP)	- Sx SP will be asked to leave if that becomes an issue	Usual care



	<ul> <li>Asx SP will be considered PUI regardless of testing status</li> <li>Asx SP should wear mask and gloves when caring for baby in the crib or isolette (i.e. changing a diaper)</li> <li>In addition to gloves and mask, SP should wear a disposable gown when holding the newborn (e.g. feeding). Face shields and N95 masks are not necessary.</li> <li>SP should be taught appropriate hand hygiene and appropriate doffing techniques to remove gowns, gloves and masks.</li> <li>If newborn located in another room, the Asx SP can travel between rooms as needed for care and support of mother and baby</li> </ul>	
Breastmilk	<ul> <li>Milk expressed with mask, gloves, and attention to self and pump hygiene and neonatefed by nurse</li> <li>Breastfeeding at breast with maternal mask/gloves and appropriate hand hygiene to be considered on a case by case basis depending on illness severity of mother</li> </ul>	Usual care
Newborn vitals	Q30 minutes x 2 hours then q4h	Usual care
Newborn bathing	As soon as possible, in newborn's room	Usual care - 12-24 hours
Newborn meds	Hep B vaccine, vitamin K, erythromycin as per usual	
Newborn Screening	Blood spot at 24 hours; obtain and dry sample in room; place in biohazard bag once dry; CCHD screening at 24 hours; Wash equipment with soap/water or appropriate disinfectant wipes; Hearing screen will be perfomed in identified COVID nursery by Pediatrix team donning appropriate PPE per protocol. Car seat challenge: can be completed if temporary nursery room is established; otherwise defer with anticipatory guidance re: safe infant travel	Usual care



Newborn SARS-Covid-	As per pediatric protocols	
2 PCR testing		
Newborn	Per parent request in patient room, or designated temporary	Usual care
Circumcision	negative pressure nursery room if multiple infants co-locating	
Expedite Maternal	- VD – PPDx or PPD1; CD	) – POD2-3 (if meeting milestones)
Discharge	- Discuss with Peds/NICU to determine timing of infant discharge	
	- Home supplies for BP follow-up - If not immediate PP LARC, provide with alternative contraception	
Newborn Discharge	With healthy caregiver after routine stay of 24-48 hours.	Usual care
	Discharge with mother if mother's symptoms allow her to be	
	discharged. Self-quarantine at home per latest CDC guidelines:	
	https://www.cdc.gov/coronavirus/2019-ncov/hcp/guidance- prevent-spread.html	
	Alert PCP to arrange follow up (telehealth, visit with PPE, etc)	
Outpt Maternal	<ul> <li>Arrange 2 week via telehealth including wound checks (e.g. photo upload or video)</li> </ul>	
Postpartum Care	- Arrange 6 week via telehealth or in person prn needs (e.g. ppBC)	