Simulation #1: Suspected Coronavirus (COVID-19) Obstetric patient presenting to hospital in labor

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Introduction & Overview

The current COVID-19 pandemic presents challenges to the medical community on a scale not seen previously in our lifetime. Even though there is much we do not know about the virus, the CDC has classified pregnant patients as a group that may be at increased risk. (1) Additionally, patients presenting in labor or with complications of the disease may require delivery, which presents additional logistical and infection control issues.

In order to prepare for patients who present during pregnancy, we are providing these simulation exercises as a way for institutions of all sizes to help design and/or practice their local protocols for management of obstetric patients who present with suspected for confirmed COVID-19 infections.

These are meant to be conducted to walk through institution plans for how to triage, transport and manage obstetric patients by reviewing each step of the process from the time they present and then addressing any gaps identified. It will also improve team preparedness and improve the care team’s confidence in their ability to handle this new and unfamiliar situation.

With each simulation, there is a global checklist that addresses the key areas for patient care and infection prevention. Of note, because of the significant potential for shortages of personal protective equipment (PPE), when running the simulations it is recommended that the team place a “mask”* on the simulated “patient” but all other physician or health care professional PPE and donning/doffing procedures be discussed rather than actually done in order to maintain supplies for real cases.

Realize that information and recommendations will continue to change as more is understood about the virus. In line with this, although we intend to revise as recommendations are modified, please continue to check with the ACOG and CDC websites for updates.

Finally, thank you for all that you are doing for your patients during this time.

*For the purposes of simulation and due to limited PPE resources, use a mask substitute such as a bandana or cloth in lieu of a mask on the simulated patient.

Reference
Simulation #1: Suspected Coronavirus (COVID-19) Obstetric patient presenting to hospital in labor

Disclaimer

This document has been developed to respond to some of the questions facing clinicians providing care during the rapidly evolving COVID-19 situation. As the situation evolves, this document may be updated or supplemented to incorporate new data and relevant information. This information is designed as an educational resource to aid clinicians in providing obstetric and gynecologic care, and use of this information is voluntary. This information should not be considered as inclusive of all proper treatments or methods of care or as a statement of the standard of care. It is not intended to substitute for the independent professional judgment of the treating clinician. Variations in practice may be warranted when, in the reasonable judgment of the treating clinician, such course of action is indicated by the condition of the patient, limitations of available resources, or advances in knowledge or technology. The American College of Obstetricians and Gynecologists reviews its publications regularly; however, its publications may not reflect the most recent evidence. Any updates to this document can be found on acog.org or by calling the ACOG Resource Center.

While ACOG makes every effort to present accurate and reliable information, this publication is provided “as is” without any warranty of accuracy, reliability, or otherwise, either express or implied. Every effort has been made to ensure that the instruction and materials contained within this manual are based on current medically and evidence-informed practice, but new recommendations may become available and inadvertent errors are always possible. In every case all variables must be taken into consideration and clinical judgment must be used. ACOG does not guarantee, warrant, or endorse the products or services of any firm, organization, or person. Neither ACOG nor its officers, directors, members, employees, or agents will be liable for any loss, damage, or claim with respect to any liabilities, including direct, special, indirect, or consequential damages, incurred in connection with this publication or reliance on the information presented.

This resource is not intended to provide guidance on particular physician or health care practice. Medical care rendered to a patient should be based on the physician’s best judgment. Any simulators discussed in this manual is just one of many options available. The inclusion or exclusion of any specific simulators should not be construed as an official endorsement or negative commentary on any of the available simulator options. All ACOG committee members and authors have submitted a conflict of interest disclosure statement related to this published product. Any potential conflicts have been considered and managed in accordance with ACOG’s Conflict of Interest Disclosure Policy. The ACOG policies can be found on acog.org. For products jointly developed with other organizations, conflict of interest disclosures by representatives of the other organizations are addressed by those organizations. The American College of Obstetricians and Gynecologists has neither solicited nor accepted any commercial involvement in the development of the content of this published product.
Simulation Setup and Preparation

**Simulation Facilitator:** The person who acts as the Simulation Facilitator is responsible for briefing the initial team on the planned simulation walk-through. They will begin with the orientation as explained below and then help the team walk through the simulation and provide information about patient vital signs. When the team completes the simulation, the Simulation Facilitator will inform the team that the simulation is over and then facilitate walking through the review checklist and local protocols.

Prior to the simulation, the Simulation Facilitator may brief the team on the drill. In most cases, this will involve discussion with both the charge nurse and staff physician on the unit where the drill is being done as well as the hospital supervisor/infectious disease contact.

Begin by orienting the care team to the plan for the simulation. Then, explain the following:

- Emphasize that the drill is meant for training and practicing / reviewing current protocols and it is not a test.
- Treat the simulator or simulated patient as they would a real patient.
- If the team needs additional supplies or instruments, they should go and obtain them.
- Because of the significant potential for shortages of PPE, when running the simulations it is recommended that the team place a mask substitute* on the simulated “patient” but all other health care professional PPE and donning or doffing procedures be discussed rather than actually done in order to maintain supplies for real cases.
- Call for assistance and other health care professionals and inform supervisors/infectious disease service as they would in a real situation, however, make sure they inform anyone they call that this is a drill and not a real patient.

*For purposes of the simulation and to save valuable PPE resources, use a substitute such as a bandana or cloth in lieu of a mask on the simulated patient.

Simulation Review or Debrief

When the simulation scenario is completed, gather the team together to review. At this time, reinforce that this exercise is meant to provide the opportunity to practice and become familiar with your facility protocols.

Go through the exercise checklist included with the simulation. As you review the different sections, discuss the facility protocol and make sure to clarify any areas of confusion. If the team identifies a better process than the one currently in place, record this in the section titled “Summary/Lessons Learned” and provide a copy of this to the unit leadership.
Simulation Scenarios

**Simulation #1:** Obstetric patient with suspected Coronavirus (COVID-19) patient presenting to hospital in active labor

**Simulation #2:** Obstetric patient with suspected Coronavirus (COVID-19) patient in labor who progresses to have a spontaneous vaginal delivery
Simulation #1

Suspected Coronavirus (COVID-19) Obstetric Patient Presenting to Hospital in Labor
Simulation #1: Suspected Coronavirus (COVID-19) Obstetric patient presenting to hospital in labor

Learning Objectives

By practicing this scenario, members of an interdisciplinary care team should be able to do the following:

- Recognize risk factors for infection with COVID-19
- Demonstrate appropriate triage, isolation and describe PPE use for patients with suspected COVID-19 infection
- Explain how to transport patient to appropriate location or room by specified route to decrease risk of exposure to other patients/healthcare professionals
- Provide correct contact information for supervisor, infection control staff, or both as directed by institutional policy
- Describe current policy recommendations with regards to patient evaluation and COVID-19 testing

Planned Completion Points

In order to successfully complete this scenario, the care team should do the following:

- Recognize the patient as having risk factors for COVID-19
- Isolate the patient and describe appropriate PPE use and do an initial assessment on the patient
- Transport patient to unit/room (if they present to a screening location rather than the Labor and Delivery unit)
- Notify supervisor, infection control staff, or both

Expected Duration of Exercise

Approximately 40 minutes (20 minutes for simulation; 20 minutes for debriefing)

1.0 Simulation #1 Setup

- **Simulators to be used:** Any full body simulator can be used for this simulation. If you decide to use a real person to act as the patient we recommend clearly informing all observers/other patients in the area about the drill so as to prevent any misunderstanding or concerns that they are being exposed to an actual infected patient.

- **Room Setup:** No special setup is needed as the simulator/simulated patient will be brought to the clinical care area.

- **Simulator Setup:** If a simulator is used, it can be seated in a wheelchair and brought to the initial clinical triage area by a person playing the family member.

- **Vital Signs:** When the team takes vital signs with their equipment, the Simulation Facilitator will provide these from the scenario directions.

- **Simulation Pre-Brief:** Gather the care team together and perform the Pre-Simulation Briefing/Orientation.
2.0 Pre-Simulation Briefing/Orientation

Prior to the simulation, you may brief the team on the drill. Begin by orienting them to the simulator and its capabilities and limitations if you are using one (in general, the mannequin does not need to demonstrate vital signs or the physiology as the goal of the drill is to go through process more than clinical care.) Then, the Simulation Facilitator will explain the following:

- Emphasize that the drill is meant for training and practicing / reviewing current protocols and it is not a test.
- Treat the simulator or simulated patient as the team would treat a real patient.
- If the team needs additional supplies or instruments, they should actually go and obtain them.
- **Because of the significant potential for shortages of PPE, when running the simulations it is recommended that the team place a simulated mask* on the simulated “patient” and patient family member but all other physician and health care professional PPE and donning/doffing procedures be discussed rather than actually done in order to maintain supplies for real cases.**
- Call for assistance and other health care professionals and inform supervisors/infectious disease service as they would in a real situation, however, make sure they inform anyone they call that this is a drill and not a real patient.

*For purposes of the simulation and to save valuable PPE resources, use a substitute such as a bandana or cloth in lieu of a mask on the simulated patient.

3.0 Basic Scenario Management and Tips

Beginning the Simulation Scenario:

- After you have conducted your pre-simulation briefing/orientation, bring the simulator or simulated patient to the initial triage area.
- At this point, the person playing the role of the patient/family member should tell the person at the triage area about the patient’s presenting symptoms. The screener should ask questions regarding potential exposure/risk factors for COVID-19 and then take appropriate actions when the patient screens positive.
- The scenario should end when the team has done the following:
  - Isolated the patient and described appropriate PPE use
  - Performed an initial assessment of the patient
  - Transport patient to unit/room (if they present to a screening location rather than ER)
  - Notified supervisor / infection control staff of the patient and suspicion of COVID-19 infection
4.0 Case Scenarios / Family Member & Facilitator Roles

Mrs. Pam Demik is a 31-year-old G3P2002 at 37+3wks gestation who presents with two days of fevers accompanied by a cough and worsening shortness of breath. She reports that her sister that lives with her returned from travel to Italy about 10 days ago but that she has not been sick.

The patient reports regular uterine contractions every 5 minutes apart for the past 3 hours. She denies any vaginal bleeding but thinks that her water may have broken about an hour ago.

Patient Information:

- No other significant past medical history
- Her pregnancy has been uncomplicated to date
- She has no known drug allergies
- Her last two pregnancies resulted in term vaginal deliveries without complications
- She last saw her primary obstetrician 3 days ago and she says that her cervix was already 3cm dilated at that time.

Family Member/Patient Instructions: The family member will speak for the simulator if a mannequin is used and explain their history based on the scenario chosen. You can provide the patient’s history as above and add in details as appropriate.

The patient or family member should emphasize painful contractions occurring every 3-5 minutes. This is meant to help push the scenario to where the team understands the patient may need to be delivered and taken to a location where that can be safely accomplished.

Simulation Facilitator Instructions: You will help guide the team through the scenario and provide information on physical findings and vital signs. There will be no laboratory data available during the simulation. When the care team does check vital signs and performs a physical examination, you can provide them with the following information:

<table>
<thead>
<tr>
<th>Vital Signs</th>
<th>Physical Examination</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Pulse: 110bpm</td>
<td>• HEENT: PERRL, oropharynx with mild erythema of oropharynx, + shoddy cervical lymphadenopathy</td>
</tr>
<tr>
<td>• Blood Pressure: 120/70</td>
<td>• Ears: TM clear, mobile</td>
</tr>
<tr>
<td>• PulseOx: 99% on room air</td>
<td>• Lungs: Bilateral wheezes heard bilateral lower lobes</td>
</tr>
<tr>
<td>• Temp: 101.3F</td>
<td>• Cardiac: Tachycardia with no murmurs</td>
</tr>
<tr>
<td>• FHRT*: 170s with moderate</td>
<td>• Abdomen: Soft, gravid, NTTP</td>
</tr>
<tr>
<td>variability and accelerations</td>
<td>• Extremities: WNL</td>
</tr>
<tr>
<td>noted</td>
<td>• Cervix*: 100/6/-1 VTX</td>
</tr>
<tr>
<td>• TOCO*: Regular uterine</td>
<td></td>
</tr>
<tr>
<td>contractions every 4 minutes</td>
<td></td>
</tr>
</tbody>
</table>

*Only provide this information if they put fetal monitors on the patient

^Only provide this information if they ask to check cervix
Simulation #1: Suspected Coronavirus (COVID-19) Obstetric patient presenting to hospital in labor

5.0 Case Flow/Algorithm with completion criteria:

Simulation facilitator will introduce the scenario to the team and then bring the simulated patient to the initial triage area. The healthcare team should then assess the patient and call for assistance

↓

Initial clinician interviews/screens patient / Patient screens positive for possible COVID-19 infection

↓

The team should place a mask on the patient and family member and place them in an appropriate isolation room / location

↓

Simulation Facilitator will ask team members to verbally discuss appropriate PPE

Care team should verbalize that they are alerting supervisor / infection control and be able to find the correct numbers to call

↓

Simulation Facilitator provides history / vital signs/ physical findings for scenario

After vital signs obtained and patient moved to isolation, have team members leave patient room and discuss removal of PPE

Care team should contact Labor and Delivery staff and transport patient (if patient does not present directly to Labor and Delivery)

↓

Scenario ends when the team has done the following:

- Isolated and evaluated the patient
- Discussed proper PPE donning/doffing
- Informed supervisor/infectious disease team of patient
- Transported the patient to Labor and Delivery (if presents to other location first)
- Reviewed plans for initial evaluation / disposition

At the end of the scenario, CLEARLY STATE THAT THE SIMULATION IS OVER and then gather the team and do the following:

- Go through the general evaluation checklist
- Review current institution COVID-19 protocols
- Record areas to review/improve
Simulation Review Form

Criteria & Instructions

Place a ✔ in the box next to the skill step the participants complete successfully. After completing the simulation, review all steps and practice any that were not done correctly.

If facilities/equipment/systems are identified, further remediation is required, document the plan below.

<table>
<thead>
<tr>
<th>Initial Care</th>
<th>Done Well</th>
<th>Delayed or Incompletely Done</th>
<th>Not Done</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recognizes</strong> patient is at risk for COVID-19 infection with screening</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Initial Infection Control</strong> - When a patient suspected to have a high-consequence infectious disease is identified, gives the person and family member a facemask.</td>
<td></td>
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</tr>
<tr>
<td><strong>Isolate</strong> – Immediately moves the patient away from other people and to a room (negative pressure room preferably) and closes the door.</td>
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<td></td>
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</tr>
<tr>
<td><strong>Recognizes</strong> patient is in labor and requires admission</td>
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<tr>
<td><strong>Transports</strong> patient to Labor and Delivery or designated area through prearranged route to minimize exposure to other patients/health care professionals</td>
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</tr>
<tr>
<td><strong>Informs Key Personnel</strong> - Notifies the Nursing Supervisor and Infection Control Department of patient</td>
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</tr>
<tr>
<td><strong>Initiates</strong> efforts to limit number/frequency of personnel that enter the room and restricts visitors</td>
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<td></td>
</tr>
<tr>
<td><strong>Creates</strong> room log to document all personnel entering/exiting room.</td>
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</tr>
</tbody>
</table>

**PPE**

**Describes** necessary PPE and donning process / procedure

Able to **locate** appropriate PPE supplies

**Evaluation and Disposition**

**Discusses** patient case and makes decision regarding COVID-19 testing
Simulation #1: Suspected Coronavirus (COVID-19) Obstetric patient presenting to hospital in labor

Summary/Lessons Learned

Review and Comment on the following areas:

Equipment Availability (PPE and other supplies):

Facilities Issues Identified:

Other Issues:
Simulation #2: Obstetric patient with suspected Coronavirus (COVID-19) patient in labor who progresses to have a spontaneous vaginal delivery

Simulation #2

Obstetric Patient with Suspected Coronavirus (COVID-19) Patient in Labor Who Progresses to Spontaneous Vaginal Delivery
Simulation #2: Obstetric patient with suspected Coronavirus (COVID-19) patient in labor who progresses to have a spontaneous vaginal delivery

Simulation #2: Obstetric patient with suspected Coronavirus (COVID-19) patient in labor who progresses to have a spontaneous vaginal delivery

Learning Objectives

By practicing this scenario, members of an interdisciplinary care team should be able to do the following:

- Recognize risk factors for infection with COVID-19
- Demonstrate appropriate triage, isolation and describe PPE use for patients with suspected COVID-19 infection in labor
- Explain points of care for patient in active labor to decrease risk of exposure to other patients/clinicians
- Explain institutional policy and provide correct contact information for supervisor/infection control staff
- Describe current policy recommendations with regards to care of patient in labor and COVID-19 precautions

Planned Completion Points

In order to successfully complete this scenario, the care team should do the following:

- Recognize the patient as having risk factors for COVID-19
- Isolate the patient in labor and delivery unit and describe appropriate PPE use for all designated healthcare professionals who enter the room
- Describe institutional management of a patient in labor with suspected COVID-19 infection (maternal vitals sign monitoring, fetal heart monitoring, fluid management, pain management)
- Describe institutional management of spontaneous vaginal delivery of a patient with suspected COVID-19 infection (appropriate PPE use for delivery personnel, prevention of needle-stick injuries, perineal laceration repair, timed cord-clamping, initial assessment/isolation of newborn, prevention of postpartum hemorrhage)
- Describe institutional management of postpartum care for a patient with suspected COVID-19 infection

Expected Duration of Exercise

Approximately 40 minutes (20 minutes for simulation; 20 minutes for debriefing)
Simulation #2: Obstetric patient with suspected Coronavirus (COVID-19) patient in labor who progresses to have a spontaneous vaginal delivery

1.0 Simulation #2 Setup

- **Simulators to be used:** Any full body simulator can be used for this simulation. Hybrid simulation may be performed with a birthing torso or task trainer and a real person to act as the patient (we recommend clearly informing all observers/other patients of the drill so as to prevent any misunderstanding or concerns).

- **Room Setup:** Negative pressure labor and delivery room (as available) or LDR with door closed with institutional equipment.

- **Simulator Setup:** The simulator/simulated person should be in a labor and delivery bed with fetal and toco external monitoring belts on, IV taped to arm. Other props include epidural pump, emesis basin, labor and delivery instrument table set up.

- **Vital Signs:** When the team takes vital signs with their equipment, the simulation facilitator will provide these from the scenario directions. Fetal monitoring may be displayed on a screen or printed for the team to review.

- **Simulation Pre-Brief:** Gather the care team together and perform the Pre-Simulation Briefing or Orientation.

2.0 Pre-Simulation Briefing/Orientation:

Prior to the simulation, you may brief the team on the drill. Begin by orienting them to the simulator and its capabilities and limitations. Then, the Simulation Facilitator will explain the following:

- Emphasize that the drill is meant for training and practicing / reviewing current protocols and it is not a test.
- Treat the simulator or simulated patient as they would a real patient.
- If the team needs additional supplies or instruments, they should actually go and obtain them.
- Because of the significant potential for shortages of PPE, when running the simulations it is recommended that the team place a mask on the simulated “patient” but all other health care professional PPE and donning/doffing procedures be discussed rather than actually done in order to maintain supplies for real cases.
- Call for assistance and other health care professionals and inform supervisors/infectious disease service as they would in a real situation, however, make sure they inform anyone they call that this is a drill and not a real patient.
Simulation #2: Obstetric patient with suspected Coronavirus (COVID-19) patient in labor who progresses to have a spontaneous vaginal delivery

3.0 Basic Scenario Management and Tips

Beginning the Simulation Scenario:

After you have conducted your pre-simulation briefing/orientation, bring the simulator/simulated patient to the labor and delivery room.

At this point, the person playing the role of the patient/family member should tell the person in labor and delivery that they are feeling painful contractions and the following should happen:

- The patient should request pain management.
- The patient should complain of rectal pressure and start pushing.
- The labor and delivery team should respond to the impending delivery and simulate donning appropriate PPE.
- The labor and delivery team should perform the delivery to minimize needle-stick injuries and healthcare personnel exposure.

The scenario should end when the team has done the following:
- Completed a normal spontaneous vaginal delivery
- Performed cord-clamping based on institutional guidelines
- Handed off the baby to the NICU team (at least 6 feet away from the patient)
- Performed appropriate steps to actively manage the third stage and prevent a PPH
- Performed routine postpartum care
- Instructed the patient about breastfeeding guidelines
- Notified supervisor / infection control staff of the patient transfer to postpartum isolation unit and suspicion of COVID-19 infection
- Transported the patient to the postpartum care isolation unit using appropriate transport precautions
Simulation #2: Obstetric patient with suspected Coronavirus (COVID-19) patient in labor who progresses to have a spontaneous vaginal delivery

4.0 Case Scenarios / Family Member & Facilitator Roles

Mrs. Cora Viris is a 25y/o G2P101 at 39+2wks gestation who presented with two days of fevers accompanied by a cough and worsening shortness of breath. She had family visiting from Seattle over the past week and said one of them had a fever as well. She screened positive for possible COVID-19 infection and was admitted to labor and delivery for labor management.

The patient reports regular uterine contractions every 3-4 minutes apart for the past 6 hours and she thinks that her water just broke.

Patient Information:

- The patient has no other significant past medical history
- Her pregnancy has been uncomplicated to date
- She has no known drug allergies
- Her last two pregnancy resulted in a term vaginal delivery without complications
- She last cervical examination demonstrated she was 5cm dilated.

Family Member/Patient Instructions: The family member will speak for the simulator if a mannequin is used and explain their history based on the scenario chosen. You can provide the patient’s history as above and add in details as appropriate.

The patient or family member should emphasize painful contractions occurring every 3-4 minutes. The patient or family member should ask for an epidural or pain control. As the care team assemble, the patient or family member should state that rectal pressure is being felt and then start pushing. A baby will be delivered either by the mannequin or push the baby through the task trainer.

The patient/family member should ask to see the baby.

The patient/family member should ask if she can breastfeed the baby.

Simulation Facilitator Instructions: You will help guide the team through the scenario and provide information on physical findings and vital signs. There will be no laboratory data available during the simulation. When the care team does check vital signs and performs a physical examination, you can provide them with the following information:

<table>
<thead>
<tr>
<th>Vital Signs</th>
<th>Physical Examination</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Pulse: 120bpm</td>
<td>- HEENT: PERRL, oropharynx with mild erythema of oropharynx, + shoddy cervical lymphadenopathy</td>
</tr>
<tr>
<td>- Blood Pressure: 110/74</td>
<td>- Lungs: Bilateral wheezes heard bilateral lower lobes</td>
</tr>
<tr>
<td>- PulseOx: 99% on room air</td>
<td>- Cardiac: Tachycardia with no murmurs</td>
</tr>
<tr>
<td>- Temp: 101.3F</td>
<td>- Abdomen: Soft, gravid, NTP</td>
</tr>
<tr>
<td>- FHRT: 170s with moderate variability and accelerations noted</td>
<td>- Extremities: WNL</td>
</tr>
<tr>
<td>- TOCO: Regular uterine contractions every 3 minutes</td>
<td>- Cervix: C/C/0 station when checked</td>
</tr>
</tbody>
</table>
Simulation #2: Obstetric patient with suspected Coronavirus (COVID-19) patient in labor who progresses to have a spontaneous vaginal delivery

5.0 Case Flow/Algorithm with completion criteria:

Simulation facilitator will introduce the scenario/vitals/physical findings to the team outside the labor and delivery room. The healthcare team should then discuss* appropriate PPE to care for the patient (one nurse and one OB clinician)

*(In an attempt to conserve PPE, Care Team may just describe rather than don PPE)

The simulated patient and family member should both already have masks on and are in negative pressure labor and delivery room

Care team should verbalize that they are alerting supervisor / infection control and be able to find the correct numbers to call

Care team should proceed with routine labor and delivery care but minimize risks for contact with body fluids and needle-stick exposure

Simulation Facilitator provides maternal / fetal vital signs

Care team should consult anesthesia regarding the use of an epidural or PCA pump for pain management (they will not have time to place during the scenario but should be consulted)

NICU team should arrive for delivery, receive an SBAR, discuss appropriate PPE and prepare to receive infant with equipment at least 6 feet away

Patient begins pushing and Care team proceeds with normal spontaneous vaginal delivery and performs cord clamping per institutional policy and hands infant to baby care team/NICU

*Patient asks if she can breastfeed at this time.

Care team performs active management of third stage to prevent postpartum hemorrhage (may add an atonic uterus requiring management at this time)

Baby care/NICU team proceeds with institutional policy on transfer of suspected COVID-19 exposed infant

Care team prepares for and transfers mother to where she will recover postpartum and notify supervisor/infection control
Simulation #2: Obstetric patient with suspected Coronavirus (COVID-19) patient in labor who progresses to have a spontaneous vaginal delivery

Scenario ends when the team has done the following:

- Discussed proper PPE donning/doffing
- Successfully performed normal spontaneous delivery, minimizing risk of exposure to healthcare team
- Transferred care of newborn to NICU team
- Actively managed third stage
- Informed supervisor/infectious disease team of postpartum patient
- Transported the patient to postpartum care isolation unit
- Reviewed plans for transfer of care/disposition

At the end of the scenario, CLEARLY STATE THAT THE SIMULATION IS OVER and then gather the team and do the following:

- Go through the general evaluation checklist
- Review current institution COVID-19 protocols
- Record areas to review/improve
Simulation #2: Obstetric patient with suspected Coronavirus (COVID-19) patient in labor who progresses to have a spontaneous vaginal delivery

Simulation Review Form

Criteria & Instructions

Place a ✓ in the box next to the skill step the participants complete successfully. After completing the simulation, review all steps and practice any that were not done correctly.

If facilities/equipment/systems are identified, further remediation is required, document the plan below.

<table>
<thead>
<tr>
<th>Skill Step</th>
<th>Done Well</th>
<th>Delayed or Incompletely / Incorrectly Done</th>
<th>Not Done</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Care</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Isolate – Patient is in designated room (negative pressure room preferably) and door remains closed whenever possible</td>
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<tr>
<td>Inform – Notifies the Nursing Supervisor and Infection Control Department.</td>
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<tr>
<td>Initiates efforts to limit number/frequency of personnel that enter the room and restricts visitors</td>
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<tr>
<td>Creates room log to document all personnel entering/exiting room.</td>
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<tr>
<td>PPE</td>
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<tr>
<td>Describes necessary PPE and donning process / procedure</td>
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<tr>
<td>Able to locate appropriate PPE supplies</td>
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<tr>
<td>Management</td>
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<tr>
<td>Recognizes patient is in labor and requires management for pain</td>
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<tr>
<td>Contacts appropriate staff and informs them of patient’s condition (anesthesia / NICU)</td>
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<tr>
<td>Provides appropriate labor management while minimizing invasive procedures (IV access, uterine and fetal external monitoring)</td>
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<tr>
<td>Monitors patient for signs of maternal sepsis and worsening respiratory symptoms</td>
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<tr>
<td>Informs NICU team to prepare for suspected COVID-19 exposed infant (provides SBAR)</td>
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<tr>
<td>Delivers patient by minimizing risk of exposure during cord clamping and handoff of infant</td>
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<tr>
<td>Actively manages third stage to prevent postpartum hemorrhage</td>
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<tr>
<td>Discusses need to separate infant and pumping/breastfeeding recommendations with patient/family</td>
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<tr>
<td>Informs postpartum unit and infection control of new postpartum patient with suspected COVID-19</td>
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<tr>
<td>Transports patient to postpartum care isolation unit (if not recovering in same room) through predetermined route to minimize exposure to other personnel.</td>
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Simulation #2: Obstetric patient with suspected Coronavirus (COVID-19) patient in labor who progresses to have a spontaneous vaginal delivery

Summary/Lessons Learned

Review and Comment on the following areas:

Equipment Availability:

Facilities Issues Identified:

Other Issues:
Simulation #2: Obstetric patient with suspected Coronavirus (COVID-19) patient in labor who progresses to have a spontaneous vaginal delivery

Key Resources / Links:

Please go to this link to read and download relevant and up-to-date information on COVID-19:

Resources / Links: Frontline Screening Protocol Script Example

Background: At many of the hospitals, the personnel at the screening station may not have a clinical background. In these cases, it is important to provide them with a very clear script of exactly what to do when patients screen positive. This is an example of a screening script for obstetric patients.

**Screening Point Protocol for Obstetric Patients**

If a pregnant patient presents to the hospital entrance, ask her the normal COVID-19 screening questions.

If the pregnant patient states she is here to be seen on Labor and Delivery and she screens positive, please ask the patient and family member(s) to put on a mask and then complete the following 3 tasks:

1) **Ask the following questions:**
   - What is your name?
   - When is your due date?
   - Are you having any contractions?
   - Do you feel like you are leaking fluid or if your water broke?
   - Are you having any vaginal bleeding?
   - Who is your OB Doctor?

2) **Call Labor and Delivery at ***-***-**** and ask for the Charge Nurse and provide the following report:**
   
   “This is the Hospital Main Entrance screening station. I have a pregnant patient with a due date of ________ who has screened positive for possible COVID-19 infection. Her name is _______________.

   She **is/is not** contracting

   She **does/does not** think her water has broken

   She **is/is not having** vaginal bleeding

   I have given her a mask and she is here at the screening station. Please come and perform initial triage.”

3) **Call Security with the radio and notify them with the following script:**

   “This is the Main Entrance lobby screening station. I have a pregnant patient who has screened positive for possible COVID-19 infection. Labor and Delivery is coming to evaluate her here. Can you please bring the golf cart for potential transfer to the Emergency Department Decon Room for evaluation?”
Acknowledgements

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