





COVID - 19 and Pregnancy, Maternal and Newborn Care Maternal Child Bulletin #2 - May 2, 2020

The purpose of this bulletin is to share current information and Nova Scotia guidance about care for pregnant and childbearing persons and newborns during the COVID-19 pandemic. Our NS guidelines may differ from those of other countries and possibly from other Canadian provinces. Please consult with IWK and/or NSHA program leaders before adopting any guidance from outside of NS. The format of this document is adapted with permission from bulletins produced by Vancouver Coastal Health Authority. Our thanks for their willingness to share with Nova Scotia.

Knowledge, understanding and terminology about COVID-19 is changing rapidly. Information in this document will be modified in response to new data and evidence. **NEW** content added will be indicated as such. Please check http://rcp.nshealth.ca/ to ensure you are referring to the latest Maternal Newborn Care Bulletin.

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GENERAL PRINCIPLES FOR ALL COVID-19 POSITIVE INDIVIDUALS

- The primary method of transmission continues to be <u>DROPLET</u>. Droplets are too large to be airborne for long periods of time. They quickly settle onto surfaces at distances of < 2 meters from the source, which is the rationale for physical/social distancing recommendations.
- Screening in the community is done in designated COVID-19 Screening Centres. Screening criteria may change, based on the evolving situation in NS. For current guidance, see https://when-to-call-about-covid19.novascotia.ca/en.
- People who have screened positive for COVID-19 are followed by public health with daily phone calls. A person is considered recovered 10 days after the onset of symptoms, provided only mild symptoms persist. Public health will determine the date of onset and the date the person is determined to be recovered. There may be a residual cough that persists longer, and the patient is not considered infectious. NEW Clarification: For patients in the community who have tested positive for COVID-19, follow up swabs to determine 'negative' results are not necessary. Swabs are based on a PCR, which will remain positive when live virus is no longer present. Thus follow up swabs would not indicate ongoing transmission risk in the absence of symptoms. Note: For patients who are admitted for COVID-19 the advice about repeat swabs may be different.
- People who are known or suspected of having COVID-19, and those who are being
 investigated, will be given a surgical/procedural mask (droplet precautions) to wear in public
 areas of a health care facility. Note: A mask for droplet precautions will also be provided for
 anyone with respiratory symptoms.
- No visitors, support persons/companions are allowed during medical appointments in hospital. *Exception: one parent/quardian allowed for children, including newborns.*
- Those who are positive for COVID-19 or suspected to be positive, and persons under investigation (i.e. PUI), will have health care appointments by telephone or other technology. In-person appointments will be delayed until recovery, unless in-person contact is needed to assess the need for changes in management. Primary care providers will not offer home visits for those who are COVID-19 positive, or suspected to be positive, but clinic appointments can be arranged if required.
- No visitors, support persons/companions are allowed during hospital admissions.
- Women who are positive for COVID-19, and those who are suspected to be positive or under investigation, cannot have a support person/companion accompany them in labour.

GENERAL INFORMATION ABOUT COVID-19 IN THE PREGNANT AND NEWBORN POPULATIONS

- Available data indicate that pregnant people ARE NOT at increased risk for COVID-19 infection, or at increased risk of morbidity/mortality from COVID-19 infection.
- There is NO strong evidence of vertical transmission in any case series.
- Testing has been negative for viral RNA in breast milk, amniotic fluid and vaginal secretions. Swabs taken at birth from newborns and placentas have not been positive for COVID-19.
- For a COVID-19 positive patient who is admitted or going to need hospital care, please notify the appropriate IWK or NSHA obstetrical or neonatal/pediatric consultant on call. Formal consultation will depend on the clinical situation but discussion is required.







GENERAL INFORMATION ABOUT COVID-19 IN THE PREGNANT AND NEWBORN POPULATIONS (continued)

- **NEW** For a COVID-19 positive patient, a discussion with the facility Anesthesia Department is important. The timing of the discussion is determined locally, based on practices in each facility. A formal consultation closer to the expected delivery date should be considered.
- Documentation of confirmed infection with COVID-19 during pregnancy, even if recovered, is
 essential for on-going surveillance. Including the date infection confirmed (date of swab) is
 important, if known, so that gestational age at infection can be calculated. The prenatal
 record and maternal admission forms are the best options for documentation of prenatal
 infection. For mothers and infants who have confirmed COVID-19 infection during hospital
 admission, COVID-19 infection should be documented on progress notes.

USE OF PPE FOR HEALTH CARE ENCOUNTERS

- <u>Surgical/procedure mask required</u> for all personnel working in patient care areas in any role, or for anyone entering an ambulatory or inpatient care area.
- <u>Droplet/Contact Precautions</u> (gown, gloves, surgical/procedure mask, face protection)
 required for contact with someone who is known or suspected to be COVID-19 positive and
 will not need an Aerosol-Generating Medical Procedures (AGMP)
- Airborne/Contact precautions (gown, gloves, fit tested N95 mask, face protection) required
 for contact with someone who is known, or suspected to be COVID-19 positive who will
 need/ is likely to need an AGMP. Newborns < 24 hours old are the exception to this
 guidance.

DEFINITION OF AGMPs (IWK and NSHA links lead to a joint NSHA-IWK document)

IWK

 $\frac{http://pulse.iwk.nshealth.ca/load_file.cfm?section=depserv\&theFile=AGMPs\%20for\%202019\%20Nov_el\%20Coronavirus\%20March\%202020\%20FINAL\%5F\%2Epdf$

NSHA

http://policy.nshealth.ca/Site Published/covid19/document render.aspx?documentRender.ldType=6 &documentRender.GenericField=&documentRender.Id=76545

ASSISTED REPRODUCTION

 Please see the Atlantic Assisted Reproductive Therapies (AART) website for updated information about operational changes as a result of COVID-19. http://www.aart.ca/







ANTEPARTUM CARE Low-risk

Schedule of 9 Prenatal Contacts for Low Risk Pregnant Patients who are COVID-19 Negative:

For low-risk pregnant patients and those for whom there are no identified maternal <u>obstetrical</u> or fetal concerns, it is acceptable to adjust the prenatal visit schedule to align with the WHO Antenatal Care Model (2016). The visit schedule below includes nine prenatal visits and is a slight modification of the WHO schedule. Please note: These visits may be virtual or in-person and the schedule may be adjusted based on clinical judgement.

FIRST TRIMESTER:	Contact 1: before 12 weeks
SECOND TRIMESTER:	Contact 2: at 20 weeks
	Contact 3: at 26 weeks
THIRD TRIMESTER:	Contact 4: at 30 weeks
	Contact 5: at 34 weeks
	Contact 6: at 36 weeks
	Contact 7: at 38 weeks
	Contact 8: at 39 weeks
	Contact 9: at 40 weeks
POSTDATES:	Return for monitoring and discussion re: induction at 41 weeks if not
	given birth.

For low-Risk Pregnant Persons who are known, or suspected of being COVID-19 positive:

- All prenatal visits should be virtual while the pregnant person is home on isolation. In-person
 visits, laboratory investigations and ultrasounds should be delayed until recovery is determined
 and the person has been cleared from isolation by Public Health.
- If an in-person visit is deemed necessary, make arrangements for the visit to take place in the most appropriate area.
- For those who are confirmed COVID-19 positive, the primary care provider/delegate should conduct a daily phone call to assess symptoms of COVID-19 and pregnancy concerns, using COVID Home Questionnaire as the basis for discussion (https://covid19hub.nshealth.ca/friendly.php?s=covid-19/care/ptpop maternity).
- Send a referral to IWK Maternal Fetal Medicine for development of a plan for ongoing fetal surveillance after the patient is considered recovered.
- Prenatal laboratory testing is an important aspect of prenatal care. These investigations should be
 offered as usual and should be scheduled in conjunction with prenatal visits as much as possible,
 taking into consideration local lab requirements and operational issues.
- **NEW** A temporary alternate screening option for gestational diabetes mellitus (GDM) has been proposed by the SOGC and Diabetes Canada, to reduce the challenge of physical distancing during screening and to address the burden on labs, where capacity is an issue. The alternative approach is:







- Hemoglobin A1c (HbA1c) and a random (non-fasting) glucose instead of a 50g-GCT (Trutol) at 24-28 weeks' gestation. The requisition must indicate that the patient is pregnant.
- Early screening for a high risk patient can be done with the same screening approach and diagnostic limits or you could order the HbA1C and a FASTING blood glucose (see http://rcp.nshealth.ca/sites/default/files/clinical-practice-guidelines/GDM%20Alternate%20screening%20algorithm 28April2020.pdf)
- Labs that have implemented this approach will automatically change a GCT (Trutol) ordered to HbA1c and random glucose.
- Postpartum screening for women who were diagnosed with GDM will be deferred until the pandemic is over.
- Until further notice, Nova Scotia is changing to urine testing for prenatal/perinatal CT/GC to
 conserve Aptima swabs for COVID-19 testing. The sensitivity of the two testing methods is
 equivalent so case detection should not change. Using the same sterile container as for urine
 cultures, collect 20 ml. Send with the usual outpatient requisition. Contact the microbiologist on call
 with any questions. NEW Clarification, the urine specimen does not have to the first void.
- Prenatal ultrasounds are an important aspect of prenatal care. These investigations should be
 offered as usual and should be scheduled in conjunction with prenatal visits as much as possible
 with the exception of some first trimester ultrasounds as noted below.
- A first trimester ultrasound is not required in the following circumstances: conception date known and/or LMP reliable with no identified risk factors or complications, IVF pregnancy (Note: cycles currently postponed in NS). (https://covid19hub.nshealth.ca/friendly.php?s=covid-19/care/ptpop_maternity).

Women who have co-morbidities, known or suspected maternal obstetrical and/or fetal health concerns

- Schedule prenatal visits based on medical needs.
- Not all contacts have to be in-person and virtual care can be considered.
- For questions about precautions for women who are known to be COVID-19 positive, or are being investigated for COVID-19, and for questions about accompanying support people, please refer to guidance from the NSHA and the IWK Health Centre as guidance may change.

Antenatal Corticosteroids

- Currently, based on the understood risk vs. benefit, the SOGC recommends continued routine
 administration of antenatal corticosteroids up to 34+6 weeks gestation. This is because of their
 demonstrated benefit for absolute risk reduction in respiratory distress syndrome, perinatal death
 and intraventricular hemorrhage. This approach may be modified in some situations, based on
 Individual maternal and neonatal risk benefit assessment.
- It is noted that the critical care literature does not support corticosteroids for ARDS/ventilated patients, but does allow them in certain medical conditions such as asthma. The literature is controversial regarding possible harm with steroids from delayed viral clearance, psychosis with high cumulative doses, diabetes (with doses equivalent to 5mg of betamethasone) and possible osteonecrosis.







There has been a large amount of controversy around the theoretical risk of NSAID use in COVID-19 positive patients. We recommend the following:

- ASA is appropriate for risk reduction in pregnancy.
- NSAIDs such as ibuprofen/naproxen/diclofenac should not be used in pregnancy due to risk of oligohydramnios, and premature closure of the ductus.
- Acetaminophen can be used for fever in pregnancy and labour as per existing protocols.
- NSAIDs are indicated postpartum for analgesia, and can be used postpartum for patients with known or suspected COVID-19 and those under investigation who have mild symptoms, unless better evidence to the contrary emerges.
- NSAIDs are generally not indicated in critically ill patients regardless of COVID-19 status, given risks for AKI and GI bleeding. Therefore, careful thought should be taken before their use in very ill patients.

POSSIBLE COVID-19 THERAPIES

- There are a number of investigational therapies including Remdesivir, Cholorquine,
 Hydroxychloroquine +/- Azithromycin, Protease Inhibitors, Colchicine NEW and convalescent
 plasma. None of these therapies are recommended at this time. Trials are currently underway.
- If any of these therapies prove beneficial, a number of them have safety data available for pregnancy to potentially guide their use. However, we must await the results.







INTRAPARTUM CARE AND IMMEDIATE POSTBIRTH NEWBORN CARE

Please note:

- There is NO strong evidence of vertical transmission in any case series. Therefore infants born to mothers known or suspected to be positive for COVID-19 are considered negative for COVID-19 at birth.
- Labour and delivery <u>DOES NOT</u> cause aerosolization. Droplets produced by talking, screaming, coughing or sneezing are LARGER than droplet nuclei and do not travel long distances.

PPE use for health care providers on Maternity Units		
Asymptomatic pregnant patient, general patient encounters.	Proper hand hygiene as per usual patient interactions. Surgical/procedure mask only for all direct patient care. No additional PPE required.	
Asymptomatic pregnant patient, in labour.	Proper hand hygiene as per usual patient interactions. Surgical/procedure mask only for all direct patient care. No additional PPE required.	
Asymptomatic pregnant patient, at delivery.	Blood and Body Fluid PPE (gown, surgical/ procedure mask, gloves, eye protection) due to risk of blood and body fluid exposure.	
Known or suspected COVID-19/PUI pregnant patient throughout labour and delivery.	Droplet/Contact precautions (gown, gloves, surgical/ procedure mask, face protection) throughout all patient encounters.	
Known or suspected COVID-19/PUI pregnant patient with known AGMP	All personnel in room use airborne PPE (gown, gloves, eye protection and fit tested N95 mask). This includes cesarean sections under general anesthetic.	
Known or suspected COVID-19/PUI pregnant patient with possible AGMP	All personnel in the room use contact/droplet PPE which includes gown, gloves, eye protection and surgical/ procedure mask. In principle, airborne PPE should be reserved for situations where the risk for maternal/adult AGMP is high. For cesarean sections under regional anesthesia the risk of conversion to general anesthesia is low. However, local circumstances may influence the decisions about care provider PPE. Note: Babies born to COVID-19 positive mothers are considered COVID-19 negative at birth. Airborne PPE is not required for AGMP in the newborn.	
Newborn of a known or suspected COVID-19 positive mother	Attendance of specialized/additional personnel at delivery for babies of COVID-19 positive mothers is not routinely indicated if there are no other indications/ anticipated needs. According to the CPS, only essential and experienced personnel should attend, maintaining a distance of at least 2 meters from the mother. Notification that the mother is in labour is reasonable with a plan for on-going updates established as determined by the local clinicians. Decisions about when to notify the care providers who would be called for resuscitation should be made locally but need to	







(11)	IWK Health Centre	
	include consideration of the time required to don the	
	appropriate PPE.	
Newborn of a known or suspected	Principles guiding resuscitation management have been	
COVID-19 positive mother	provided by the CPS. Some local modifications may be made	
requiring resuscitation	based on team composition and physical environment.	
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	http://pulse.iwk.nshealth.ca/COVID-19/page/?id=16715	
	NSHA	
	https://covid19hub.nshealth.ca/friendly.php?s=covid-	
	19/care/ptpop_maternity	

Why is labour & delivery not an "aerosolized event" since there is heavy breathing, screaming?

- There are two forms of droplets, the size of which dictates whether an infectious agent is deemed to be transmitted via droplets (requiring standard droplet precautions) vs. "droplet nuclei" (requiring PPE for aerosol-generating procedures such as N95 masks).
- Droplet nuclei are small particles less than 5 micrometres that contain the infectious agent. Aerosolgenerating medical procedures can increase the likelihood of producing these types of droplet nuclei.







- In contrast, droplets produced by talking, screaming, coughing or sneezing are LARGER than droplet nuclei and do not travel long distances. Screaming, speaking or other scenarios in labour DO NOT produce droplet nuclei.
- Therefore, PPE for aerosol-generating procedures (i.e. N95 masks) are not required for labour & delivery except when aerosol-generating procedures are performed.

Home Birth

At this time home birth in Nova Scotia has been suspended. This decision is part of provincial plans focused on minimizing community spread of COVID-19, keeping families safe and maintaining the health of care providers so that they can continue to work in the system. Midwives are working with their clients to address concerns and assist with creating alternate birth plans for birthing in hospital. The timing for reintroducing midwifery care in clients' homes is evaluated regularly, in the context of evolving public health advice for Nova Scotia.

Labour analgesia

- Labour analgesia is important!
- Due to the potential risk of aerosolization, use of Entonox is not recommended. As an additional precaution no laboring women in Nova Scotia have access to Entonox at this time.
- The SOGC advises consideration of an early epidural for COVID-19 positive women to reduce the
 chances of needing urgent anesthesia and the increased potential for a general anesthetic in those
 situations. Advance planning re equipment and supplies is required as the epidural cart cannot be
 brought into the room.

Fever in labour (> 38°)

- The most common cause of fever in labour will continue to be chorioamnionitis.
- In addition to chorioamnionitis and COVID-19, remember to keep a broad differential diagnosis for fever in labour, depending on the patient's symptoms and risk factors (Barton et al, Severe sepsis in Pregnancy).
- Be more suspicious for COVID-19 (similar to Influenza) if a patient has respiratory symptoms, such as new or worse SOB, cough, +/- GI symptoms and remember that Influenza is still circulating!
- If you suspect COVID-19 or other respiratory infection, immediately initiate droplet precautions and do a nasopharyngeal swab for COVID-19. NEW It is no longer necessary to include an influenza test for those with signs of ILI.

Box 1. Causes of Severe Sepsis and Septic Shock in Pregnancy and the Puerperium

- Acute pyelonephritis
- Retained products of conception
 - Septic abortion
 - Conservative management of placenta accreta or percreta
- · Neglected chorioamnionitis or endomyometritis
- Uterine microabscess or necrotizing myometritis
- Gas gangrene
- Pelvic abscess
- Pneumonia
 - Bacterial examples
 - Staphylococcus
 - Pneumococcus
 - Mycoplasma
 - Legionella
 Viral evample
 - Viral examples
 - Influenza
 H1N1
 - Herpes
 - Varicella







POSTPARTUM/POSTNATAL CARE

Vertical transmission & risk to Infants

- There is **no** strong evidence of vertical transmission to the fetus, nor of transmission of COVID-19 via breastmilk.
- Good hand hygiene around the infant is **essential**.
- If the mother has confirmed/suspected COVID-19, recommend good hand hygiene and wearing of a surgical/procedure mask when engaging in infant care and feeding to prevent postnatal transmission to the infant. NEW If the mother's chest is exposed to respiratory droplets before feeding, she should wash her breasts gently prior to skin-to-skin contact and breastfeeding or expressing breast milk.
- There are no additional precautions for mothers who are breastfeeding or expressing breast milk to feed to their infant.
- Mother can remove the procedure mask in her room and should ensure 2 meter separation from the infant when not providing direct care

Care for the well/asymptomatic infant of a mother/parent who is known, or suspected COVID-19 positive

- Care for mother and infant together in a private room.
- Use droplet/contact precautions (gown, gloves, surgical/procedure mask, and eye protection)
- Monitor infant vital signs q2-4h as per local guidance and newborn condition.
- Collect neonatal nasopharyngeal swab for COVID-19 (for epidemiological surveillance) 24-36 hours after birth or at discharge (whichever is earlier)
- If suctioning or resuscitation required, move to designated area
 - o If < 24 hours droplet/contact precautions (very unlikely to be COVID-19 related)
 - o If \geq 24 hours use airborne/contact precautions (possibility could be COVID-19 related)
- Expedite discharge (after collection of 24-hour newborn screen for inherited conditions and bilirubin) while ensuring dyad safety.
- Ensure usual discharge teaching including discussion of contraception. Defer newborn hearing screen (ensure post-pandemic follow-up process in place).
- If infant becomes unwell, refer to IWK/NSHA care path for babies < 2 hours of age or ≥ 2 hours of age. Note: If infant is < 24 hours of age, use droplet/contact precautions. Airborne precautions (e.g. N95 mask) are not required for AGMPs unless the infant is ≥ 24 hours of age.
- **NEW** Postpartum screening for women who were diagnosed with GDM will be deferred until the pandemic is over.

IWK and NSHA clinical pathways available at these links:

IWK

http://pulse.iwk.nshealth.ca/COVID-19/page/?id=16715

NSHA

https://covid19hub.nshealth.ca/friendly.php?s=covid-19/care/ptpop_maternity







NEW UPDATE ON EARLY YEARS PUBLIC HEALTH SERVICES

Due to redeployment of staff to deal with the COVID-19 pandemic response, Public Health Early Years programs and services are being delivered largely by phone or methods of virtual support. Details are below.

- All postpartum clients will continue to receive the *Loving Care books*, and Infant Feeding Resources prior to discharge from hospital.
- A Public Health Nurse will continue to contact all families within 3-5 days of being discharged from hospital to home. The Public Health Nurse will be available to provide support to families, however the services will be primarily through phone and virtual support.
- Families who are currently being supported in the Enhanced Home Visiting Program, will continue to be supported through phone and virtual support.
- Public Health will continue to provide childhood immunization services to infants and children who do not have access to a primary care provider.
- Public Health's 'Pregnancy & Parenting Support' webpage –
 <u>www.nshealth.ca/pregnancyandparenting</u> includes a variety of credible resources and
 information for families. This page is also available in French at
 <u>www.nshealth.ca/pregnancyandparenting-fr</u>
- All other Public Health Early Years services will be deferred until further notice.







PREGNANT HEALTH CARE WORKERS

- There is limited data about the unique risks for pregnant individuals from COVID-19. What is known so far suggests that:
 - Pregnant individuals ARE NOT at increased risk for infection, or at increased risk of morbidity/mortality from infection.
 - There is no strong evidence to date that COVID-19 is vertically transmitted.
 - The vast majority of infants born to mothers who have been COVID-19 positive are healthy, with near-term prematurity being most common adverse outcome.
- Therefore, pregnant health care workers may continue to work. Use of PPE appropriate for the work environment is important, as it is for all health care workers.
- Every effort should be made to avoid confirmed pregnant health care workers <u>caring directly</u> for patients with **confirmed** COVID-19.
- Pregnant health care workers with additional co-morbidities (such as cardiac disease, hypertension, lung disease, etc.) should review their risks for COVID-19 exposure with their own healthcare provider and connect with employer Occupational Health, Safety & Wellness if appropriate.
- Pregnant health care workers may choose to begin their maternity leave early under the
 Employment Insurance Act, or explore using entitlement banks (i.e. vacation, time in lieu) or taking
 an unpaid personal leave of absence prior to the start of their maternity leave. Employees are asked
 to connect with their manager and the Benefits Department for any questions regarding these
 arrangements.

DATA COLLECTION/CODING NOVA SCOTIA DATA

- The Canadian Institute for Health Information (CIHI) has introduced codes for confirmed and suspected COVID-19 infection <u>during admission</u>. These codes will be used for both maternal and infant infection. The Reproductive Care Program of Nova Scotia has added a code for COVID-19 infection <u>during pregnancy</u> to the Nova Scotia Atlee Perinatal Database.
- Documentation of confirmed infection with COVID-19 during pregnancy, including
 documentation for those who have recovered, is essential for on-going surveillance. Including
 the date infection confirmed (date of swab) is important, if known, so that gestational age at
 infection can be calculated. NEW For newborn swabs, include the date and time. The time will
 make it possible to differentiate between swabs taken at birth and swabs takes at 24-36 hours
 of age, for the sites that are doing both.
- **NEW** Please see documentation recommendations below.

Period of Confirmed COVID-19 Infection	Suggested Form / Location for Documentation
During Pregnancy	 Prenatal Record Maternal Admission Forms (for antenatal and/or delivery admissions)
During Birth Admission (Maternal Infection)	 Progress Notes
During Birth Admission (Newborn Infection)	Progress NotesNewborn Admission/Discharge Form
During Postpartum or Neonatal Admission (Identified prior to or during hospital readmission)	Admission Forms / History & PhysicalProgress Notes







RESOURCES

Canadian Paediatric Society (CPS)

COVID-19 information and resources for paediatricians (relevant for all care providers working with newborns, infants, children, youth and their families)

https://www.cps.ca/en/tools-outils/covid-19-information-and-resources-for-paediatricians

Public Health Agency of Canada Pregnancy, childbirth and caring for newborns: Advice for mothers during COVID-19

https://www.canada.ca/en/public-health/services/publications/diseases-conditions/pregnancy-advise-mothers.html

Society of Obstetricians & Gynaecologists of Canada (SOGC)

COVID-19 Information and Education pages. Currently SOGC CPGs and other education resources can be accessed from the SOGC website without a password (usually available to members only). https://www.sogc.org/en/

World Health Organization

http://www.emro.who.int/nutrition/nutrition-infocus/breastfeeding-advice-during-covid-19-outbreak.html

IWK Health Centre staff resources http://pulse.iwk.nshealth.ca/

Nova Scotia Health Authority staff resources http://intra.nshealth.ca/Pages/Welcome.aspx