Mother COVID19 +ve or suspected

High risk pathway - Level 2 - APG PPE *

GA-maternal section, Infant <34 weeks or with high likelihood of resp support



Preparation

Select team and limit entry to essential members Don Covid PPE outside room/scrub area

Level 2 AGP PPE *

Resuscitaire and essential equipment in theatre
Transport incubator inside if resp support anticipated
-If GA you won't be able to open doors for until air "clean"
Surfactant in bag to protect if not used
Agree who will be clean team**

Agree contact for clean team from GA section

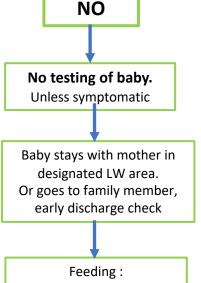
Stabilisation

Encourage obstetric led DCC
Follow all usual procedures
for safe stabilisation
Consider use of
video laryngoscope if
intubating
Request cord blood to store

for IgG /M

Leaving the delivery Doff PPE in appropriate area

NNU ADMISSION REQUIRED? move in closed incubator



Feeding:
Maternal surgical mask if available, avoid coughing on baby,
Good hygiene

VIRAL TESTING ON DAYS 3 & 5 (SINGLE VIRAL SWAB OF NOSE AND THROAT)

YES

RESPIRATORY SUPPORT
Nasal flow > 2 l f/min CPAP/Vent

Admit to cubicle or cohort

NO

Level 1-Droplet PPE *

If respiratory support
Flow > 2I/min
required or aerosol
generating procedures
(AGP) follow pathway

Admit to cubicle

YES

Level 2-AGP PPE* for aerosol-generating procedures (AGPs) i.e. intubation, suction

Avoid CPAP & high-flow Consider lower threshold for intubation

NEONATAL MANAGEMENT DURING COVID-19 (Coronavirus)

Mother COVID 19 +ve or suspected

Low risk pathway

No GA section, > 34 weeks GA Active resuscitation unlikely

Aim to deliver in designated room/ theatre

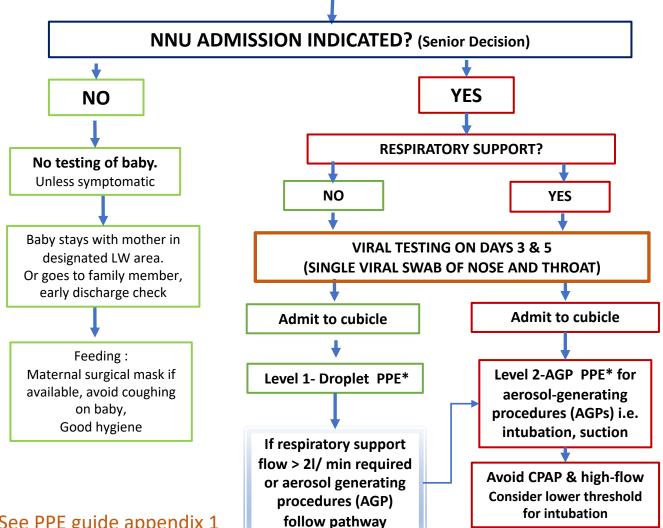
NNU team informed and assess if need to attend

NNU TEAM ATTENDANCE (IF INDICATED)

 Stay outside and decide essential team if entry required -be prepared to (don) Level 2- AGP PPE* outside room rapidly Start with gown and gloves

Resuscitaire in delivery room with basic equipment Extra equipment available outside

- Only intervene if baby requires resuscitation / assistance
 - Avoid CPAP/high-flow if possible.
 - Consider deferring possible intubations until in NNU
 - Use Video Laryngoscope if possible
 - Single set resuscitation kit boxes in room



Procedure for Neonatal Crash Call Attendance during Covid-19 outbreak

Initial call procedure to remain as usual, crash call to Medical first on pager holder Medical second on pager holder Neonatal Nurse pager holder All NNU team attend Mother Covid positive or suspected infection? YES NO Normal procedure **Medical Second on** Fluid repellant page holder dons Surgical mask plus Level 2- AGP PPE* visor (with FFP3 mask) and Medical First on and enters room nurse enter room as Remaining team wait usual and assess outside infant Medical Second on involvement if required Assess patient and request additional help if required from waiting team +/attending consultant

^{*} See PPE guide appendix 1

NEONATAL MANAGEMENT DURING COVID-19 (Coronavirus)

Management of positive or suspected cases in neonatal unit

Clinical suspicion or proven infection?

Respiratory deterioration not easily explained by other causes Also consider any recent family or staff positive contacts but Does not apply to asymptomatic babies who have potential contacts

YES

URGENT VIRAL TESTING*
(SINGLE VIRAL SWAB OF NOSE AND THROAT)

Isolate

All cares in incubator as far as possible
Use filter on Neopuff or rebreathing circuit **
Risk assess for Aerosol Generating Procedures (AGP):

No/ minimal AGP

Air or low flow oxygen < 2 I AND

No requirement for bag and mask ventilation or intubation unlikely

Level 1 - DropletPPE***

Single cubicle or cohort where possible Incubator care

Level 2 - AGP PPE *** for any AGPs

High risk of AGP

CPAP, Hi Flow or ventilation
Patients undergoing intubation
Tracheostomies, or, nasal stents or NPA adjunct
or copious secretions
Ventilated patients

OR

Requirement for bag and mask ventilation or intubation likely

Virology results

If initial swab
negative and
remains
symptomatic keep
in isolation.
Repeat at 3 and 5
days
D/W IC after 5 days

Level 2- AGP PPE ***

Must be isolated Large room preferable Incubator care where possible

If COVID positive isolate for 7 days, discuss with IC before taking out of isolation

*Virology guidance

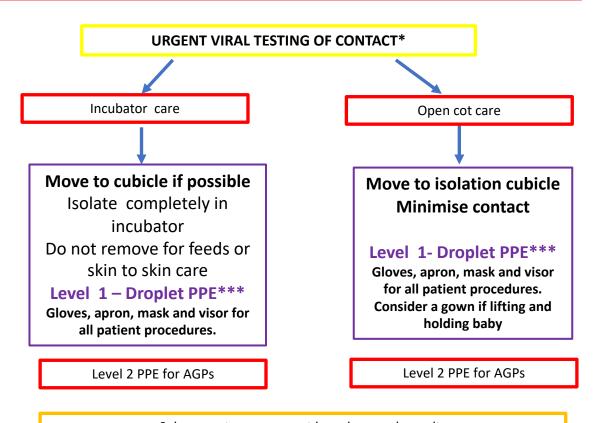
** Specialist equipment

***PPE Appendix 1

NEONATAL MANAGEMENT DURING COVID-19 (Coronavirus)

Management of neonates with possible contact but asymptomatic (not for infants admitted from LW: see LW pathways)

Postnatal contact is defined as physical contact (within 2 m) with a parent or carer who has suspected or confirmed COVID-19, or being in the same room in an open cot of a symptomatic individual (parent, carer or other baby).



Subsequent management based on swab results

Contact swab positive

Test baby on days 3 and 5 post contact
Isolate for 14 days post contact

If swabs positive manage as per positive baby

Contact swab negative

If baby and contact remains asymptomatic and no further concerns, can come out of isolation

If ongoing concerns regarding contact, consider repeat testing and keep baby isolated

*Virology guidance

^{**} Specialist equipment

^{**} PPE

Non COVID Standard PPE

No suspicion of Covid-19 infection

- •Single apron, gloves and standard surgical mask for all patient contact
- •Open suction, not in incubator: change to fluid repellent surgical face mask and visor
 - •Intubation: change to fluid repellent surgical face mask and visor

Level 1 (Droplet) COVID PPE

Suspected positive or proven positive baby
Not on respiratory support other than low flow
No tracheostomy or airway adjuncts
No intermittent mask ventilation and or neopuff
Incubator care

Gloves, apron and surgical mask

- •Goggles or visor if opening incubator and carrying out procedure
- •Replace apron with gown and double gloves if you close physical contact with baby

Level 2 (AGP) COVID PPE

Suspected positive or proven positive baby

CPAP, Hi Flow or oscillation

Patients undergoing intubation

Tracheostomies, with intermittent IPPV or copious secretions

NPA stents with copious secretions

Ventilated patients not nursed in an incubator

OR

Requirement for bag and mask ventilation or intubation likely (n.b. does not include NGT placement or nebulisers)

PPE

Full gown, double gloves, FFP3 mask, visor or goggles
 Please note if intubating wear full visor
 Incubator care wherever possible

Illustrated guide

Level 1- Droplet PPE (droplet or low risk asymptomatic ENT or copious secretions))



Level 2- AGP PPE (aerosol spread)





Note that masks with a non shrouded valve *must* be covered in use, e.g with a visor as illustrated on the right.

Donning and doffing videos on RHC Neonatal You Tube Channel:

Introduction: youtu.be/D707wrq3INM

Donning: youtu.be/umfq-aL3Uq4
Doffing: youtu.be/C8dojESKcCU

Labour ward and theatres? / NNU RHC videos

Filter for neopuffs or rebreathing circuits





Consider use of inline suction ventilated babies

Doffing PPE

Droplet Precautions

• Doffing of PPE - including decontamination of re usable eye protection in an isolation room

The order of removing PPE is important to reduce cross contamination, so the order outlined below always applies even if not all items of PPE have been used.

Gloves – assume the outside of the glove is contaminated:

Grasp the outside of the glove with the opposite gloved hand; peel off.

Hold the removed glove in gloved hand.

Slide fingers of the ungloved hand under the remaining glove at wrist.

Peel second glove over first glove.

Discard appropriately inside the room.

Gown or apron – assume the gown/apron front and sleeves are contaminated:

Unfasten or break ties.

Pull apron or gown away from the neck and shoulders touching the inside of the gown/apron only.

Turn the apron/gown inside out.

Fold or roll into a bundle and discard appropriately inside the room.

Second Gloves

Remove as per first gloves and wash hands

Goggles or face shield – assume the outside of the goggles/face shield is contaminated:

Don a pair of gloves and remove eye gear

To remove, handle by the head band or ear pieces.

Decontaminate eye protection using Alcohol/Clorox wipes.

Remove gloves as per above

Decontaminate hands using ABHR.

Leave eye protection in the isolation room/donning area. Eye protection should be decontaminated using Alcohol/Clorox wipes before next use.

Surgical Mask – assume the front of the surgical mask is contaminated:

Untie or break bottom ties, followed by top ties or elastic and remove by handling ties only.

Discard appropriately inside the room.

Perform hand hygiene immediately after removing all PPE

SOP bloods/samples for isolated infants SUSPECTED or POSITIVE COVID -19 In NICU

- Stickers supplied in advance for sample container
- Sample taken by operator in appropriate PPE*
- Second operator dons standard PPE
- Drop sample into clear plastic bag at door of isolation room
- For blood gases
 - Run sample and dispose tube/ syringe in sharps box
 - After running sample wipe down analyser with Clinitex wipe or actichlor solution
- Remove gloves, apron
- Perform hand hygiene