

Royal Hospital for Women (RHW)
NEONATAL BUSINESS RULE
COVER SHEET



Health
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SUMMARY	NeoSeals® are small foam pads placed onto nasal continuous positive airway pressure (nCPAP) prongs to reduce nasal trauma from skin breakdown in neonates within Newborn Care Centre.
Key Words	NeoSeal®, CPAP, Nasal Trauma, Skin Breakdown, neonate

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Within this document we will use the term woman, this is not to exclude those who give birth and do not identify as female. It is crucial to use the preferred language and terminology as described and guided by each individual person when providing care.

1 BACKGROUND

Nasal continuous positive airway pressure (nCPAP) is a treatment modality used for respiratory distress in neonates who do not require intubation. Heated and humidified gas is delivered via nCPAP prongs to support the neonate's respiratory effort. Nasal injuries are known to occur when nCPAP is used. NeoSeal® can be used for eligible neonate's in NCC to minimise the risk of skin nasal trauma and improve comfort of neonate while prongs are in use.

2 RESPONSIBILITIES

2.1 Staff

2.1.1 Medical – Prescribe nCPAP settings for neonates, identify neonates who may require the use of NeoSeals®, review and assess neonates who are on nCPAP

2.1.2 Nursing – initiate and manage neonates on nCPAP, identify neonates who may require NeoSeal®, apply NeoSeal® correctly, change NeoSeal® as required preserve neonate's skin integrity, discontinue use of NeoSeal® when no longer required, document use in medical record.

3 PROCEDURE

3.1 Equipment

- Appropriate size NeoSeal® for neonate's nares (Picture 1)
- nCPAP Fisher and Paykel (F&P) circuit
- Flexitrunk nasal CPAP interface (snorkel) – appropriate length for neonate (70mm, 100mm)
- F&P nasal prongs – appropriate size for neonate
- Canberra CPAP hat OR F&P CPAP hat – appropriate size for neonate
- Neopuff™ connected to air and oxygen blender with appropriately sized face mask
- Sterile water for irrigation and sterile gauze (for cleaning face)



Picture 1

NeoSeal® use for neonates using nasal CPAP

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3.2 Eligibility Criteria

- Neonates on nCPAP requiring nasal prong use

3.3 Clinical Practice

Note:

- The NeoSeal® is a single episode use only
- Discard and use a new set at each nursing care time
- The NeoSeal should not stick to the neonate's nares
- Use a size up of the nCPAP prongs with NeoSeal® attached if it slides into the nose
- A second NeoSeal® may be used to create a snug seal

- Contain or swaddle the neonate prior to inserting NeoSeal® with nCPAP prongs.
 - Provide Immunosupportive oral care (ISOC) or Sucrose 24% if required
- Ask an assistant to provide appropriate respiratory support (i.e. face mask ventilation via Neopuff™) while placing NeoSeals® onto interface.
- Choose the appropriate size NeoSeal® to fit the nCPAP prongs.
- Peel NeoSeal® from plastic liner.
- Slip NeoSeal® onto nCPAP prongs with adhesive side facing towards nCPAP prongs (Picture 2)
 - Soft, smooth side without adhesive should contact neonate's skin
- Apply gentle pressure to adhere NeoSeal® to nCPAP prongs (Picture 2).
- Ensure neonate's nares/septum are cleaned and dried before insertion.



Picture 2



Picture 3

- Insert prongs into nares and adjust to sit in the nares in a comfortable position (Picture 3).
- Secure nCAP prongs to hat as per [Continuous Positive Airway Pressure \(CPAP\) Therapy \(Neonate\) CBR](#).
- Replace NeoSeal® at each set of neonate's cares or change prongs or if NeoSeal® becomes soiled or wet.
- Upgrade the NeoSeal® size as neonate grows.
- Document removal and/or replacement in the neonate's nursing notes in eRIC
- Discontinue use of NeoSeal® when no longer required.

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3.4 Documentation

- eRIC

3.5 Education Notes

- Incorporating the use of NeoSeals® can benefit the neonate by providing:
 - A good seal for the CPAP prongs, reducing air leaks and improving the effectiveness of CPAP delivery
 - Having an interface between the nares and CPAP prongs reduces irritation on the neonate’s skin minimising the risk of nasal trauma
 - Minimising the neonate’s discomfort during nasal CPAP delivery leading to better tolerance of CPAP therapy
 - The seal adheres to the nasal prongs and not to the neonate’s sensitive skin. The soft pad protects the patient’s fragile nasal septum, thus reducing the risk of nasal trauma.
- A second NeoSeal® may be used to create an appropriate seal.
- Do not exceed more than 2x NeoSeal@s at any one time.
- Discontinue use if skin irritation occurs, escalate to medical team.
- Product is not made with natural rubber latex or plasticizer DEHP

3.6 Abbreviations

nCPAP	Nasal Continuous Positive Airway Pressure	F&P	Fisher and Paykal
DEHP	Diethylhexyl phthalate		

3.7 Related Policies/procedures

- RHW NCC CBR- Immuno-Supportive Oral Care (ISOC)
- RHW NCC CBR- Continuous Positive Airway Pressure (CPAP) (Neonate)
- RHW NCC CBR- NAVA Nursing Management for Non-Invasive Mode

3.8 References:

1. Neotech. N.D. NeoSeal® Nasal Prongs Seal. Accessed 10.9.2024
https://www.neotechproducts.com/n17/wp-content/uploads/2019/10/M576_RevF_NeoSeal_Sell_Sheet.pdf

4 ABORIGINAL HEALTH IMPACT STATEMENT DOCUMENTATION

- Considerations for culturally safe and appropriate care provision have been made in the development of this Business Rule and will be accounted for in its implementation.
- When clinical risks are identified for an Aboriginal and/or Torres Strait Islander woman or family, they may require additional supports. This may include Aboriginal health professionals such as Aboriginal liaison officers, health workers or other culturally specific services

5 CULTURAL SUPPORT

- For a Culturally and Linguistically Diverse CALD woman, notify the nominated cross-cultural health worker during Monday to Friday business hours
- If the woman is from a non-English speaking background, call the interpreter service: [NSW Ministry of Health Policy Directive PD2017_044-Interpreters Standard Procedures for Working with Health Care Interpreters.](#)

6 NATIONAL STANDARDS

- Standard 1 Clinical Governance
- Standard 5 Comprehensive Care
- Standard 6 Communicating for Safety
- Standard 8 Recognising and Responding to Acute Deterioration

7 REVISION AND APPROVAL HISTORY

Date	Revision No.	Author and Approval
16.09.2024 3.7.25	1	H Basson (RN) & KB Lindrea (CNC) Endorsed by NCC CBR Committee
21.7.25	1	RHW BRGC