



CLINICAL GUIDELINE	
Admission to NICU KEMH and PCH	
Scope (Staff):	Nursing and Medical Staff
Scope (Area):	NICU KEMH, NICU PCH, NETS WA

This document should be read in conjunction with this [DISCLAIMER](#)

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The decision to admit an infant to either of the neonatal units must be arranged through the medical staff that will then be responsible for informing the appropriate consultant on-call for the unit. In the case of infants admitted for level 3 care, the on-call consultant must be informed immediately if the infant is very sick or unstable.

- The consultant will make the decision as to whether that infant needs to be seen immediately, however patients should be seen by a consultant within 30 if requested by the registrar.
- If a registrar requests the attendance of a consultant then the consultant should be in attendance within 30 minutes of that request.
- A consultant or senior registrar should see all infants requiring level 3 care within 8 hours of admission, if not seen immediately.
- Consultants should be informed about infants that require level 2 care within 24 hours of admission, these infants should be seen by a consultant or senior registrar within 24 hours.

Public and Private Patients

- The consultant neonatologists/paediatricians of the Neonatal Units at King Edward Memorial and Perth Children's Hospitals are happy to support and care for private patients (infants) within this service. Because of the round the clock nature of intensive and special nursery care it is necessary to manage these areas in clinical teams. One of the neonatal consultants is in charge of each clinical area at all times. When an infant requires referral to another sub specialty the care of the infant is jointly managed by the neonatal consultant currently on service and the paediatric consultant of the sub specialty.
- For intensive and intermediate care patients the existing comprehensive level of medical attendance and cover is appropriate for private patients also. All such infants are admitted under the care of the consultant neonatologist responsible for that area at that time. The consultant carries out one or more daily ward rounds, oversees the care of all infants and will discuss the management of infants with their parents on a regular basis.
- For term and near term infants admitted to the postnatal wards with their mothers, the neonatologist responsible for the postnatal wards will make themselves known to the parent(s) and will overview their infant's inpatient stay.
- For private patients a single account for services rendered will be raised and no gap payment will be charged for any services billed by this hospital. It is not anticipated that consultants will attend the delivery of private patients, except where this is indicated on clinical grounds as indicated in the Guidelines, or as arranged individually between obstetrician and paediatrician.

Criteria for Admission / Readmissions to NICU PCH Ward 3B

The following patients are eligible for admission:

1. NETS retrievals of newborn infants (who never been home) from the hospital of birth.
2. Any infant < 8 days old from birth.
3. **Non-viral** #term neonates 8-28 days of age or *preterm neonates until 44 weeks post menstrual age AND require:
 - Major Surgery, OR
 - Respiratory support (CPAP or Ventilation) OR
 - Other major organ support (at the discretion of NICU consultant)

4. #Term Neonate 8-14 days of age or *pre-term neonate until 42 weeks gestational age with a **likely or proven viral illness** AND require
- Respiratory support (CPAP or Ventilation) OR
 - Other major organ support (at the discretion of NICU consultant)

#Term neonates (≥37 weeks gestational age at birth)

*Preterm neonates (<37 weeks gestational age at birth)

All admissions/readmissions to 3B should be discussed with the on call neonatal consultant.

Admission to NICU KEMH

Infants may be admitted the Special Care Nurseries when there is any medical concern. This is only a guide to the level of care and the types of conditions a neonate may present with.

Infants post-delivery, who are slow to transition to extra-uterine life, should be admitted for ongoing observation:

- Infants with poor muscle tone at 10 minutes of age.
- Infants who respond slowly to significant resuscitation or who have required cardiac massage during resuscitation.
- Infants who require support to transition post maternal general anaesthesia
- Infants with signs of respiratory distress/grunting.
- Infants who have significant birth trauma such as subgaleal haemorrhage where there is a potential for sudden deterioration and require close monitoring.
- Also see level of care indicators below.

Level of Care Indicators

The decision to admit an infant to either of the neonatal units must be arranged through the medical staff who will then be responsible for informing the appropriate consultant for the unit. Indicators for level of care to SCN or KEMH/PCH NICU are below:

LEVEL 2 CARE INDICATED FOR	LEVEL 3 CARE INDICATED FOR	PCH CARE INDICATORS FOR
<ul style="list-style-type: none"> • Transient problems requiring cardiorespiratory monitoring / frequent laboratory investigations in neonates >32 weeks, >1500g, not requiring level 3 care. • Need for peripheral IV fluid therapy. • Convalescing infants recovering from acute problems. • Assessment for poor feeding. • Jaundice infants requiring peripheral IV fluid therapy and closer monitoring. • Assessment of NAS, until stable. 	<ul style="list-style-type: none"> • Sustained assisted ventilation (intermittent positive pressure ventilation or continuous positive airway pressure). • Preterm <32 weeks until stable. • Cardiorespiratory monitoring for recurrent apnoea or seizures. • Exchange transfusion. • Severe systemic illness, eg shock • Requirement for central lines. • Oxygen requirement for assessment. • Complex multi-system life support. 	<ul style="list-style-type: none"> • As per L2 & L3 for all out born infants 32 weeks gestation & above. • Infants of all gestations requiring surgical procedures. • Infants of all gestations requiring specialist inpatient care.

Clinical Handover

Medical and midwifery/nursing staff that accompany a baby into the SCN or NICU must handover to the receiving medical and nursing staff. The handover must take place using the iSOBAR format.

Identity	Confirm identity, check name bands against accompanying paperwork
Situation	Describe current clinical scenario
Observations	Of the baby
Background	Maternal history, labour and resuscitation history
Assessment	Of clinical status
Recommendations	Current treatment plan, possible ongoing management and procedures to be completed
Readback	Confirm information handed over

The receiving team must make a management plan for the baby and allocate staff accordingly.

Medical Responsibility on Admission to KEMH/PCH NICU or SCN2

(See [here](#) for Registrar QRG for preterm neonates)

- The order and priority of procedures will depend on the condition and initial assessment of the infant on admission to the unit.
- Provide immediate care as necessary to stabilise.
- Ensure completed documentation of the Neonatal History Sheet MR410, including relevant clinical details of the baby's birth, clinical assessment and status.
- Full clinical examination and patient assessment.
- Full documentation in the inpatient progress notes MR420 (in addition to checking complete records of the Neonatal History Sheet MR410) of:
 - Maternal history.
 - Perinatal and birth history.
 - Clinical reason for admission and focused problem list.
 - Clinical examination and assessment.
 - Investigations and management plan.
 - Completion of Neonatology problem list MR485.03.
 - Documentation of communication with parents, including details provided of clinical diagnosis and management.
 - Documentation of discussion with senior medical staff (Senior Registrar/Consultant).

Admitting Nurse

- Admission nurse is responsible for checking the resuscitation equipment/admission set-up prior to admitting an infant. Ascertain if there is a need to isolate the infant.
- When taking clinical handover from the midwife, check for Vitamin K and Hepatitis B vaccine consent form.
- Check whether the infant has voided or passed meconium since birth.

- Check cord clamp in place, no ooze and skin intact.
- Check preferred method of feeding. Obtain written consent for the use of formula milk if applicable.

Equipment

- A warmer, pre-warmed incubator or open cot.
- Ventilator / nasal CPAP if applicable.
- Stethoscope.
- Cardiopulmonary monitoring, Non-invasive blood pressure (Invasive BP/TCM/CVP - if applicable).
- Thermometer.
- Nappy (pre-weighed for NICU babies).
- Hat and appropriate clothing.
- Scales / Measuring tape.
- Admission paperwork / Name bands.
- X1 Infusion pump and syringe pump (L3 need 2-3 syringe pumps + infusion pump).
- Equipment for peripheral access and/or central access.
- Equipment for septic screen.

Procedure

- The order and priority of procedures will depend on the condition and initial assessment of the infant on admission to the unit.
- Admissions to PCH Ward 3B are very varied and individual consideration must take place on the priority of admission procedures.
- Admissions via NETS and or Theatre MUST have a team handover occur prior to moving the infant from the Theatre/NETS cot. Handover should include the Theatre staff/NETS Dr and nurse as well as the receiving unit, Registrar (SR and Consultant if available) and admission nurse.
- Stabilisation and maintenance of airway, admission weight and baseline vital signs are initial priorities.
- Place the infant on a pre-warmed radiant warmer or incubator - see [Thermoregulation](#).
- If oximeter probe is insitu on admission to the NICU it must be released and circulation assessed prior to being reapplied. Assessment is to be documented in comments section of the MR489/491.
- Further procedures and care are then prioritised in conjunction with medical staff and shift coordinator.
- Complete full physical assessment, length and head circumference (may be done later if condition warrants). If there is excessive moulding or caput, the HC should be repeated daily until this has resolved.
- [Skin assessment](#) (NSCS) and pressure area risk assessment (GS) are to be completed and documented within the first 4 hours of admission.
- Document observations hourly for the first 3 hours then reassess the need for continuous monitoring - see [Monitoring and Observation Frequency](#).
- If there is a suspicion of sepsis, a septic screen should be performed - see [Sepsis: Neonatal](#).

- Routine bloods - see [Blood Tests: Ordering](#).
- Medications: Administer prescribed medications after obtaining specimens for laboratory investigations. Administer Vitamin K and Hepatitis B (if BW >1000 grams and no pyrexia or coagulopathy). Antibiotic administration is a priority in the unwell neonate.
- CXR/AXR for ETT/Line placement and further management if applicable.
- Commence fluids or feeds as early as possible. Respiratory compromised infants should only be fed enterally if their condition allows.
- Blood glucose should be tested with the blood gas machine as soon as lines are in situ. Repeat within 2 hours or as ordered. If feeding is by enteral route, do a pre 2nd feed blood glucose - see [Hypoglycaemia](#).
- Initially weigh all nappies to assess urine output. Carry out a ward urinalysis.

When Stabilized

- If there is excessive bodily fluid (Meconium or blood) the neonate can be minimally cleansed with a cloth whilst under the warmer. Do not bath for 24 hours.
- Anti-staph on day 1 then alternate days - see [Antistaphylococcal Procedure](#).
- Determine whether an open cot or incubator is required.
- Use appropriate positioning aids to enhance physiological stability, promote energy conservation and to reduce physiological and behavioural stress.
- Complete necessary documentation plus the Birth Register, Fireboard and Handover file.
- When the parents visit make sure that they are welcomed and shown the layout of the unit and understand NICU hand washing and visiting guidelines.
- Monitor fluid balance until condition no longer warrants it. Review daily.

Re-admission of Infants to the Neonatal Unit KEMH

In general infants are not re-admitted to the unit. The following exceptions apply:

- Any infant < 42 weeks corrected gestational age that requires readmission **within the first week after discharge**. Consider whether the baby requires nursing in an isolation cubicle (eg bronchiolitis); such infants should not be admitted to KEMH.
- Any infant with rhesus disease who requires a blood transfusion for a low haemoglobin can be readmitted **up to 16 weeks post discharge**.

All infants readmitted to the Neonatal Unit from home, with a possible infection, may initially need to be nursed in an incubator to isolate them from the other infants until investigations are carried out. They can be allowed out of the incubator for feeds if applicable. The decision to nurse them in an open cot, prior to results of pending investigations, will be made at the discretion of the consultant.

Criteria for Paediatric Review and/or Re-admission to Postnatal Wards (KEMH)

Infants who are referred from home and who are suspected of being septic should **not** be re-admitted to the postnatal wards. Such babies can be admitted to the neonatal unit at KEMH or PCH, depending on the clinical situation.

The following are the criteria for paediatric review / re-admission to a KEMH postnatal ward:

- Any baby within the first week of discharge from KEMH postnatal ward with:
 - Feeding difficulties.

- Weight loss of >10% of birth weight.
- Jaundice.
- Any baby within the first week of discharge that, in the opinion of the Visiting Midwifery Service (VMS) midwife requires a non-urgent paediatric review can be referred to KEMH Emergency Centre (EC). If VMS are concerned the infant is unwell or ill, urgent review should be sort at the nearest paediatric emergency centre.
- Any baby in the first week of life who needs a medical review within 48 hours after discharge can be considered for review in KEMH EC after discussion with the Neonatal Consultant / Senior Registrar.

Admission of Infants for Newborn Care

Physiologically stable infants born at >35 weeks gestation can be admitted if their mother is unable to provide any care due to her own medical hospitalisation (eg. Admission to Adult Special Care Unit or Intensive Care Unit at Sir Charles Gardiner Hospital), or in the event of apprehension or adoption.

The infant will require a Day 1 check by both medical and nursing staff within 24 hours of birth.

Observation

Hourly temperature, heart rate and respirations are to be recorded for the first 3 hours following birth. If the initial observations are within normal limits then a full set of observations (temperature, heart rate and respirations) should be performed with feeds and cares. Observations are to be recorded on the Level 2 Observation Chart (MR 491) with "Admitted for Newborn Care" clearly documented.

Change the category of care to level 2 if any investigations and/or treatments are necessary (e.g. blood glucose test, insertion of gastric tube).

On arrival to the nursery the nurse must obtain relevant history details, determine the mother's chosen feeding method, and check with the transferring staff member the presence of two correct identibands, gender and condition of the umbilical cord. Ascertain whether Vitamin K / Hepatitis B has been given. The reason for admission is to be recorded in the Register as "Newborn Care". Nurses caring for the infant must document in the progress notes at least once per shift.

Nutrition


Document an agreed plan of how the infant is to be fed. Do not use dummies / pacifiers / formula milk unless the parent has specifically requested their use or has given consent. Volumes offered and frequency of feeding will be determined on birth weight and gestation. Infants that are offered a feed and are not interested should be reviewed.

Before each feed, contact ASCU staff to determine whether the mother is well enough to attend to the feed. If the mother is able to breastfeed or give the feed (if bottle feeding), transport the infant to ASCU. SCN nurses are responsible for transporting the infant to and from ASCU for feeds. ASCU staff are responsible for assisting ASCU mothers with breast / bottle feeding.

Related CAHS internal policies, procedures and guidelines
<p>CAHS</p> <ul style="list-style-type: none"> • Clinical Handover <p>PCH</p> <ul style="list-style-type: none"> • Admission Policy <p>Neonatology Guidelines</p> <ul style="list-style-type: none"> • Antistaphylococcal Procedure. • Blood Tests: Ordering. • Hypoglycaemia. • Monitoring and Observation Frequency. • Sepsis: Neonatal. • Thermoregulation.

Useful resources
<p>WNHS Obstetrics & Gynaecology Guideline</p> <ul style="list-style-type: none"> • Agnes Walsh House: transfer of a postnatal woman +/- her baby

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