

Facility:

FAMILY NAME

MRN

GIVEN NAME

☐ MALE ☐ FEMALE

D.O.B. ____ / ____ / ____

M.O.

ADDRESS

NEONATAL SEPSIS PATHWAY

LOCATION / WARD

COMPLETE ALL DETAILS OR AFFIX PATIENT LABEL HERE

Use for neonates (babies up to 28 days corrected age) in any clinical setting to support recognition and management of sepsis



RECOGNISE

COULD IT BE SEPSIS?

Sepsis is infection with organ dysfunction and is a **medical emergency**

Does the baby have any of the following:

Signs or symptoms of INFECTION?

- ☐ Fever, hypothermia, temperature instability
- ☐ Pale, mottled, central cyanosis
- ☐ Lethargy, poor feeding, floppy / poor tone
- ☐ Apnoea(s)
- ☐ New or worsening signs of respiratory distress

- ☐ New rash, red umbilicus, cellulitis, joint swelling
- ☐ Seizure(s), abnormal movements, high pitched cry, irritability, increased tone, jitteriness
- ☐ Abdominal distension / tenderness, vomiting, diarrhoea, blood in stool

Maternal risk factors?

- ☐ Prolonged rupture of membranes > 18 hours
- ☐ Maternal pyrexia $\geq 38^{\circ}\text{C}$
- ☐ Maternal infection
- ☐ Group B streptococcus (GBS)
- ☐ Bacterial growth on placental swab
- ☐ Increased sepsis probability on Neonatal Early-Onset Sepsis Calculator*

Other risk factors?

- ☐ Family, carer or clinician concern the baby is sick
- ☐ Unwell family members
- ☐ Re-presentation for ongoing condition or concern
- ☐ Known or suspected infection - not improving
- ☐ Indwelling line(s) with signs of infection
- ☐ Prematurity (immunocompromised)
- ☐ Aboriginal and Torres Strait Islander people

*Neonatal Early-Onset Sepsis Calculator

ONLY for babies < 24 hours old AND ≥ 34 weeks gestation

Entered details must be exact

Set incidence to 0.4/1000 births

Note: Does not replace the senior clinician decision to commence treatment



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Commence A-G systematic assessment and document a full set of vital sign observations including blood pressure

Does the baby have ANY features of SEVERE ILLNESS?

Laboratory features of **severe illness / organ dysfunction** include acidosis, lactate ≥ 4 mmol/L, neutropenia, thrombocytopenia, elevated CRP

☐ **ANY RED ZONE** observation
OR additional criteria

☐ **ANY YELLOW ZONE** observation
OR additional criteria

Call a **RAPID RESPONSE**
(as per local CERS) and consult
with **SENIOR CLINICIAN**

Call for a **CLINICAL REVIEW**
(as per local CERS) and **SENIOR CLINICIAN**
review within 30 minutes

Consider other causes (e.g. postnatal transition, respiratory distress syndrome, congenital heart disease, hypovolaemia or metabolic disease)

Does the senior clinician consider the baby has **POSSIBLE SEPSIS?**

YES

COMMENCE SEPSIS TREATMENT
(over page)

NO

Consider other causes of deterioration and
increase frequency of vital sign observations
Reconsider sepsis if the baby deteriorates

RESPOND & ESCALATE

NEONATAL SEPSIS PATHWAY

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NEONATAL SEPSIS PATHWAY



RESUSCITATE

Complete actions 1 to 5 **within 60 minutes** with ongoing A-G systematic assessment

1. Get help

- Consult with Paediatrician / Neonatologist / Emergency Physician / NETS

WITHIN


2. Monitor Airway, Breathing, Circulation

- Commence respiratory support if required
- Give supplemental oxygen to maintain SpO₂
 - 90 – 94% (babies < 48 hours)
 - ≥ 95% (babies > 48 hours)
- Continually monitor the baby and assess vital sign observations including blood pressure
- Assess for signs of shock (e.g. delayed capillary refill, poor perfusion, tachycardia, hypotension, acidosis)
- Provide thermal environment to achieve normothermia

WITHIN


3. Obtain access and collect pathology

- ☐ Vascular access
- ☐ Blood culture
- ☐ Blood gas
- ☐ Lactate
- ☐ Blood glucose level (BGL)

- Gain access: IV / umbilical / intraosseous (if baby > 2 kg)
- Call for expert assistance after 2 failed attempts at cannulation**

WITHIN


- Prioritise blood culture collection (0.5 - 1 mL) prior to antibiotics
- Collect relevant screening samples (e.g. lumbar puncture, urine) according to suspected source if haemodynamically stable

Do not delay antibiotic administration for sample collection or test results

4. Commence antibiotics

- ☐ Antibiotics commenced
- ☐ Consulted with appropriate expert clinician or NETS

Prescribe and administer antibiotics according to the Australasian Neonatal Medicines Formulary (ANMF)

**BENZYL PENICILLIN OR AMPICILLIN
plus GENTAMICIN**


If baby is severely unwell or deteriorating, discuss other infective sources and additional antimicrobials with appropriate expert clinician or NETS (e.g. CEFOTAXIME if suspected meningitis, ACICLOVIR, VANCOMYCIN)

WITHIN


5. Consider fluid resuscitation

- If signs of shock, administer 10 mL/kg sodium chloride 0.9% bolus
- Give 2 mL/kg glucose 10% plus maintenance fluids if:
 - BGL < 2.6 mmol/L (babies < 48 hours)
 - BGL < 3.0 mmol/L (babies > 48 hours)

REASSESS &
REFER

6. Reassess

- If signs of shock persist, discuss ongoing management including additional fluid bolus and/or vasopressors e.g. adrenaline (epinephrine) with a Neonatologist / NETS
- Continue to monitor vital sign observations at a minimum frequency every 30 minutes for 2 hours, then hourly for 4 hours
- Actively seek microbiology and other investigation results
- Review treatment plan and consider viral screening

7. Refer

- ☐ Intensive Care / NETS contacted

- If no improvement or further deterioration occurs, escalate to higher level of care (e.g. Intensive Care / NETS)
- Discuss management plan with the family / carers

NETS 1300 36 25 00

Print Name: _____ Signature: _____

Designation: _____ Date: ____ / ____ / ____

Holes Punched as per AS2828.1: 2019
BINDING MARGIN - NO WRITING


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