		Child and Adolescent Health Service	
		Neonatology	Med Rec. No:
		CLINICAL DETERIORATION AND	Surname:
096		SEPSIS PATHWAY (NEONATAL)	Forename:
325		· · · · · · · · · · · · · · · · · · ·	Gender: D.O.B
EMR325960		Date:// Time:: (24hrs)	Episode Number:
			on in newborn infants and is a MEDICAL EMERGENCY.
			EPSIS UNLESS PROVEN OTHERWISE. wards to support sepsis recognition and management.
			s never replace clinical judgement.
			gnising and Responding to Clinical Deterioration" Guideline
		COULD THIS BE SEPSIS? See "Sepsis Neonal	
		DOES THE BABY HAVE ANY OF THE	FOLLOWING SIGNS AND SYMPTOMS?
		New / worsening respiratory distress	New sustained increase in FiO_2 by > 0.1
		 ☐ Increased apnoea / bradycardia / desaturations ☐ Compromised circulation: mottled, CRT ≥ 3secs, 	New / persistent lactate > 4 mmol/L or pH ≤ 7.25 or base deficit > 8 or deteriorating trend
		cold peripheries	Sustained change in BP (up or down)
+		 Lethargic, irritable, seizures or full fontanelle New rash, red umbilicus, cellulitis, joint swelling 	 New or persistent tachycardia Persistent BGL < 2.6 mmol/L or > 8.0 mmol/L
I	Щ		Persistent BGL < 2.0 mmol/L \underline{O} > 8.0 mmol/L Persistent temperature > 37.5°C \underline{O} < 36.5°C
	ECOGNIS	NEONATAL EARLY-ONSET SEPSIS (EOS) CALCULA	TOR ©2023 Kaiser Permanente Division of Research
Z	000	Increased sepsis probability on EOS calculator?	
IARG	REC	(ONLY for babies < 24 hours old AND \ge 35 weeks gestat	ion)
ING N		 Set Incidence to 0.4/1000 live births, OR Set incidence to 1/1000 live births (for Aborigin 	al / Torres Strait Islander infants)
BINC		MATERNAL RISK FACTORS FOR SEPSIS	OTHER SEPSIS RISK FACTORS (especially late-onset)
∠		WATERNAL RISK FACTORS FOR SEFSIS	OTHER SEPSIS RISK PACTORS (especially late-ofiset)
Ë		\Box Eever > 38°C	Eamily / clinician concern baby is sick
T WRITE		□ Fever ≥ 38°C □ Rupture of membranes > 18 hrs	Family / clinician concern baby is sick Multiple requests for review
O NOT WRITE IN BINDING MARGIN		 □ Fever ≥ 38°C □ Rupture of membranes > 18 hrs □ Maternal infection 	 Family / clinician concern baby is sick Multiple requests for review Prematurity
DO NOT WRITE		Rupture of membranes > 18 hrs	Multiple requests for review
		Rupture of membranes > 18 hrs Maternal infection	Multiple requests for review Prematurity Indwelling catheters Recent surgery or wound
		 Rupture of membranes > 18 hrs Maternal infection Group B streptococcus (GBS) colonisation Clinical chorioamnionitis Siblings who had GBS EOS 	 Multiple requests for review Prematurity Indwelling catheters Recent surgery or wound Known or suspected infection – not improving
		 Rupture of membranes > 18 hrs Maternal infection Group B streptococcus (GBS) colonisation Clinical chorioamnionitis Siblings who had GBS EOS History of active HSV or syphilis 	 Multiple requests for review Prematurity Indwelling catheters Recent surgery or wound Known or suspected infection – not improving Aboriginal / Torres Strait Islander
		 Rupture of membranes > 18 hrs Maternal infection Group B streptococcus (GBS) colonisation Clinical chorioamnionitis Siblings who had GBS EOS History of active HSV or syphilis COMPLETE A SYSTEMATIC ASSESSMEN 	 Multiple requests for review Prematurity Indwelling catheters Recent surgery or wound Known or suspected infection – not improving Aboriginal / Torres Strait Islander T AND FULL SET OF VITAL SIGNS
		Rupture of membranes > 18 hrs Maternal infection Group B streptococcus (GBS) colonisation Clinical chorioamnionitis Siblings who had GBS EOS History of active HSV or syphilis COMPLETE A SYSTEMATIC ASSESSMEN SCREENING INITIATED Date:/	 Multiple requests for review Prematurity Indwelling catheters Recent surgery or wound Known or suspected infection – not improving Aboriginal / Torres Strait Islander T AND FULL SET OF VITAL SIGNS
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	TE	Rupture of membranes > 18 hrs Maternal infection Group B streptococcus (GBS) colonisation Clinical chorioamnionitis Siblings who had GBS EOS History of active HSV or syphilis COMPLETE A SYSTEMATIC ASSESSMEN SCREENING INITIATED Date:/_/ Print name / Designation / Signature: ESCALATION TO	 Multiple requests for review Prematurity Indwelling catheters Recent surgery or wound Known or suspected infection – not improving Aboriginal / Torres Strait Islander TAND FULL SET OF VITAL SIGNS Time:: (24hrs) SENIOR CLINICIAN
	ALATE	Rupture of membranes > 18 hrs Maternal infection Group B streptococcus (GBS) colonisation Clinical chorioamnionitis Siblings who had GBS EOS History of active HSV or syphilis COMPLETE A SYSTEMATIC ASSESSMEN SCREENING INITIATED Date: /_/ Print name / Designation / Signature: 1. Contact Registrar requesting review in < 15 mins	 Multiple requests for review Prematurity Indwelling catheters Recent surgery or wound Known or suspected infection – not improving Aboriginal / Torres Strait Islander T AND FULL SET OF VITAL SIGNS Time:: (24hrs) SENIOR CLINICIAN 3. No medical review in < 15 mins: escalate
	SCALATE	Rupture of membranes > 18 hrs Maternal infection Group B streptococcus (GBS) colonisation Clinical chorioamnionitis Siblings who had GBS EOS History of active HSV or syphilis COMPLETE A SYSTEMATIC ASSESSMEN SCREENING INITIATED Date:/_/_ Print name / Designation / Signature: 1. Contact Registrar requesting review in < 15 mins OUTCOME OF ASSESSMENT	 Multiple requests for review Prematurity Indwelling catheters Recent surgery or wound Known or suspected infection – not improving Aboriginal / Torres Strait Islander T AND FULL SET OF VITAL SIGNS Time:: (24hrs) SENIOR CLINICIAN 3. No medical review in < 15 mins: escalate to SR / Consultant 4. Ongoing deterioration: CODE BLUE
	ESCALAT	Rupture of membranes > 18 hrs Maternal infection Group B streptococcus (GBS) colonisation Clinical chorioamnionitis Siblings who had GBS EOS History of active HSV or syphilis COMPLETE A SYSTEMATIC ASSESSMEN SCREENING INITIATED Date:/ Print name / Designation / Signature: 1. Contact Registrar requesting review in < 15 mins CUTCOME OF ASSESSMENT UNLIKELY SEPSIS	Multiple requests for review Prematurity Indwelling catheters Recent surgery or wound Known or suspected infection – not improving Aboriginal / Torres Strait Islander TAND FULL SET OF VITAL SIGNS Time: (24hrs) SENIOR CLINICIAN 3. No medical review in < 15 mins: escalate to SR / Consultant Y SEPSIS: SUSPECTED SEPSIS
	& ESCALAT	Rupture of membranes > 18 hrs Maternal infection Group B streptococcus (GBS) colonisation Clinical chorioamnionitis Siblings who had GBS EOS History of active HSV or syphilis COMPLETE A SYSTEMATIC ASSESSMEN SCREENING INITIATED Date:/_/_ Print name / Designation / Signature: 1. Contact Registrar requesting review in < 15 mins 2. Continuous monitoring & observations OUTCOME OF ASSESSMENT UNLIKELY SEPSIS Consider alternative diagnoses.	Multiple requests for review Prematurity Indwelling catheters Recent surgery or wound Known or suspected infection – not improving Aboriginal / Torres Strait Islander TAND FULL SET OF VITAL SIGNS Time: (24hrs) SENIOR CLINICIAN In < 15 mins: escalate to SR / Consultant LY SEPSIS: ASED
9 +	POND & ESCALAT	□ Rupture of membranes > 18 hrs □ Maternal infection □ Group B streptococcus (GBS) colonisation □ Clinical chorioamnionitis □ Siblings who had GBS EOS □ History of active HSV or syphilis COMPLETE A SYSTEMATIC ASSESSMEN SCREENING INITIATED Date: /// Print name / Designation / Signature: ■ 1. Contact Registrar requesting review in < 15 mins 2. Continuous monitoring & observations OUTCOME OF ASSESSMENT ■ UNLIKELY SEPSIS Consider alternative diagnoses. 	Multiple requests for review Prematurity Indwelling catheters Recent surgery or wound Known or suspected infection – not improving Aboriginal / Torres Strait Islander TAND FULL SET OF VITAL SIGNS Time: (24hrs) SENIOR CLINICIAN 3. No medical review in < 15 mins: escalate to SR / Consultant Y SEPSIS: SUSPECTED SEPSIS
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DO	POND & ESCALAT	□ Rupture of membranes > 18 hrs □ Maternal infection □ Group B streptococcus (GBS) colonisation □ Clinical chorioamnionitis □ Siblings who had GBS EOS □ History of active HSV or syphilis COMPLETE A SYSTEMATIC ASSESSMEN SCREENING INITIATED □ Date: / Print name / Designation / Signature: 1. Contact Registrar requesting review in < 15 mins ○UTCOME OF ASSESSMENT □ UNLIKELY SEPSIS Consider alternative diagnoses. Re-evaluate & escalate as indicated □ Blood cu ALWAYS CONSIDER ALTERNATIVE AND/OR ADDIT	Multiple requests for review Prematurity Indwelling catheters Recent surgery or wound Known or suspected infection – not improving Aboriginal / Torres Strait Islander TAND FULL SET OF VITAL SIGNS Time:: (24hrs) SENIOR CLINICIAN As no medical review in < 15 mins: escalate to SR / Consultant SR / Consultant Assed MITH OR WITHOUT SHOCK Commence treatment (over page) Induction of the provide of the pr
	ESPOND & ESCALAT	□ Rupture of membranes > 18 hrs □ Maternal infection □ Group B streptococcus (GBS) colonisation □ Clinical chorioamnionitis □ Siblings who had GBS EOS □ History of active HSV or syphilis COMPLETE A SYSTEMATIC ASSESSMEN SCREENING INITIATED □ Date: / Print name / Designation / Signature: 1. Contact Registrar requesting review in < 15 mins ○UTCOME OF ASSESSMENT □ UNLIKELY SEPSIS Consider alternative diagnoses. Re-evaluate & escalate as indicated □ Blood cu ALWAYS CONSIDER ALTERNATIVE AND/OR ADDIT	Multiple requests for review Prematurity Indwelling catheters Recent surgery or wound Known or suspected infection – not improving Aboriginal / Torres Strait Islander TAND FULL SET OF VITAL SIGNS Time::(24hrs) SENIOR CLINICIAN J. No medical review in < 15 mins: escalate to SR / Consultant LY SEPSIS: EASED DN REQUIRED ilture + CRP INAL DIAGNOSES

CLINICAL DETERIORATION AND SEPSIS PATHWAY (NEONATAL) **MR488.02**

Child and Adolescent Health Service Neonatology

CLINICAL DETERIORATION AND SEPSIS PATHWAY (NEONATAL)

Surname:

Med Rec. No:

Forename:

Gender: D.O.B.

	RESUSCITATION See "Resuscitation Neonatal" Guideline COMPLETE ACTIONS 1 TO 5 WITHIN 60 MINUTES WITH ONGOING SYSTEMATIC ASSESSMENT					
	1. GET HELP	Consult Neonatologist	WITHIN 5 min			
RESUSCITATION	2. AIRWAY, BREATHING, CIRCULATION	 Assess and maintain airway Optimise respiratory support and maintain SpO₂ ≥ 93% Continuous monitoring of vital signs Assess for shock Maintain normothermia 	WITHIN 15 min			
	3. IV ACCESS & INVESTIGATIONS Glucose Result: mmol/L Lactate Result: mmol/L Blood cultures Time: (24hrs)	 BGL < 2.6 mmol/L (in infants < 48 hrs) OR < 3mmol/L (> 48 hrs): Give 2 ml/kg 10% glucose FBP and CRP; consider UEC, LFT, coagulation profile, LP, urine, viral studies including UC)/ 				
RES	4. ANTIBIOTICS Decision to treat Time: (24hrs) Prescribed Time: (24hrs) Commenced Time: (24hrs)	 KEMH Neonatal Medication Guidelines AND/OR AND/OR CAHS ChAMP Sepsis and Bacteraemia Guideline COULD THIS BE HSV? Low threshold to add ACICLOVIR especially if there are seizures, deranged LFT, low platelets or other clinical suspicion. Consider IM if IV access challenging (EXCEPT VANCOMYCIN & ACICLOVIR) 	WITHIN			
	5. FLUID RESUSCITATION 1 st fluid bolus Time: (24hrs) Total fluid bolus volume mL/kg: Inotropes started	 Circulatory compromise / shock: give 10 mL/kg 0.9% sodium chloride bolus and reassess Consider repeat boluses with close clinical assessment (max. 40 mL/kg) Consider blood products: FFP / cryoprecipitate, packed cells and/or platelets See "Blood Components and Blood Products: Administration" Guideline Commence hydrocortisone and inotropes for persistent / fluid-resistant shock 	60 min			
REASSESS & REFER	Time: (24hrs) 6. REASSESS	 and manage hypotension Continuous monitoring of vital signs Consider imaging (CXR / AXR) Actively seek microbiology and other results: modify treatment accordingly Review treatment plan AND keep family informed 				
	REVIEW / STOP ANTIBIOTICS IF CULTURES NEGATIVE AT 36 HOURS (EOS) OR 48 HOURS (LOS) <u>AND</u> INVESTIGATIONS NOT CONSISTENT WITH SEPSIS <u>OR</u> ALTERNATIVE DIAGNOSIS REACHED					
	7. REFER	 Escalate care if continues to deteriorate and refer to paediatric subspecialties as indicated Comprehensive clinical handover (ISOBAR) See "Clinical Handover" Guideline Ensure complete record-keeping including post sepsis care plan Discuss management plan with family / carers (including after discharge if appropriate) 				
Ľ	SENIOR CLINICIAN TO Print name / Designation	D CHECK FORM COMPLETION Date:// Time::(2 on / Signature:	24hrs)			

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