Louth: Antimicrobial Guidelines - Louth Hospitals: Antimicrobial Guidelines: Sepsis 6+1 for maternity patients

Images reproduced from the NCEC National Clinical Guideline No. 26 on Sepsis Management in Adults (including maternity) 2021

Take 3	Give 3
Blood cultures: Take blood cultures using aseptic (non-touch) technique prior to giving antimicrobials unless this leads to a delay > 45 minutes. Take other specimens as indicated by history and examination e.g. influenza swabs, wound swabs, sputum, urine etc.	Oxygen: Titrate supplementary oxygen to achieve oxygen saturations 94-96% (88-92% in patients with chronic lung disease).
Bloods: Check Point of Care lactate (venous or arterial) & full blood count, renal profile, liver profile +/- coag. Other test and investigations as indicated by history and examination.	Fluids: Women who present with hypotension should receive up to 30mls/kg of isotonic crystalloid within 1 hour of presentation. Start vasopressors in women who are fluid unresponsive. Women with hypoperfusion should receive fluid to restore perfusion using a bolus and review technique. Give 500ml bolus of isotonic crystalloid over 15mins up to 2 litres, reassessing frequently. Boluses may be amended based on clinical context- see fluid resuscitation algorithm. Call Anaesthesia/Critical Care if hypotensive or not fluid responsive. Caution in pre-eclampsia.
Urine output: : Assess urinary output as part of volume/perfusion status assessment. For patients with sepsis or septic shock start hourly urinary output measurement.	Antimicrobials: Give antimicrobials as per local antimicrobial guideline based on the site of infection, community or healthcare acquired and the patient's allergy status. Assess requirement for source control.

+1 If Pregnant, assess fetal wellbeing

Note: There is no auto-regulation of the feto-placental unit. One of the earlier signs of maternal hypoperfusion may be fetal tachycardia. Resuscitating the mother resuscitates the baby.

Complete this form and apply if there is a clinical suspicion of infection.

I	dysfunction resulting from inf	atening condition defined as organ ection during pregnancy, childbirth, partum period (WHO 2016).				
	Section 2: Are you concerned that the woman could have infection					
S	History of fevers or rigors Cough/sputum/breathlessness Flu like symptoms Unexplained abdominal pain/distension Pelvic pain Vomiting and/or diarrhoea Line associated infection/redness/swelling/pain	Possible intrauterine infection Myalgia/back pain/general malaise/headache New onset of confusion Cellulitis/wound infection/perineal infection Possible breast infection Multiple presentation with non-specific malaise Others				
	Section 3: Obstetric History	Risk factors				
В	Para: Gestation: Pregnancy related complaints: Days post-natal: Delivery: Spontaneous vaginal delivery (SVD) Vacuum assisted delivery Gesarean section	Pregnancy Related Cerciage Pre-term/prolonged rupture of membranes Retained products History pelvic infection Group A Strep. infection in close contact Recent amniocentesis Non Pregnancy Related Age > 35 years Minority ethnic group Vulnerable socio-economic background Obesity Diabetes, including gestational diabetes Recent surgery Symptoms of infection in the past week Immunocompromised e.g. Systemic Lupus Chronic renal failure Chronic liver failure Chronic heart failure Chronic heart failure				
	Record observations on the Irisi	h Maternity Early Warning (IMEWS) chart.				
	•	diate medical review				
	•	INFECTION plus ANY 1 of the following:				
A	Section 4: 1. □ IMEWS trigger for immediate review, i.e. >2 YELLOWS or >1 PPRK 2. □ SIRS Response, i.e. ≥2 SIRS criteria listed below. SIRS criteria: Note - physiological changes must be sustained not transient. □ Respiratory rate ≥ 20 breaths/min □ WCC < 4 or > 16.9 x 10 VL □ Acutely altered mental status □ Heart rate ≥ 100bpm □ Temperature < 36° or ≥ 38.3°C □ Bedside glucose > 7.7mmol/L □ Fetal heart rate >160bpm □ Respiratory rate ≥ 160bpm □ Respiratory rate ≥ 160bp					
R	Section 5: If sepsis is suspected following screening, Doctor's Name:	escalate to Medical review. Use ISBAR as outlined. Time Doctor Contacted:				
	Midwife's Signature:)				

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Sepsis For		fater There are separate for non-pregnant a	sepsis criteria		30	6	Ä		
If infection suspected follo	wing History			0 (0)	mplete and sig	n sepsis screenin	g form		
If infection suspected following History and Examination, Doctor to complete and sign sepsis screening form Section 6: Clinical Suspicion of Infection									
Document site:	Genital Tract Respiratory Tra Central Nervou Other suspecto	ct is System ed site:	□ Urinary Tract □ Intra-abdom □ Intra-articula	inal		□ Skin □ Catheter/Device □ Unknown	Related		
☐ No clinical suspicion of INFEC	TION: proceed to	o section 9.							
Section 7: Who needs to get th 1. SIRS Response, Le. 22 SIR 2. Clinically or biochemically Acutely altered	s criteria listed or y apparent new of mental state rash enia, due to bone terapy, who prese	n page 1. onset organ dys RR > 30 Pallor/mottli Other organ marrow failure,	function, i.e. an	y one) ₂ sat : ged ca	of the following: c 90% apillary refill	□ HR > 13	0		
Startmateria.	3cp3i3 0 1 1						==		
Section 8 TAKE 3 BLOOD CULTURES: Take blood cu (if no significant delay i.e. > 45 minut	ltures before givin	+ 1* - cor	□ OXYGEN	l: Titra	hour te O: to saturations ronic lung disease.	GIVE 3 of 94-98%	N/A □		
examination. BLOODS: Check point of care lactat +/- Coag. Other test and investigatio examination. URINE OUTPUT: assess urinary ou status assessment. For patients with urinary output measurement. *+1 If Pregnant, Assess	ns as indicated by l tput as part of volu sepsis or septic sho	history and ume/perfusion ock start hourly	of hypovo & give up Care if hy	to 2 li to 2 li poteni CROB	tres, reassessing fre sive or not fluid resp	otonic crystalloid ove quently. Call Anaesthe sonsive. Caution in pro sicrobials according to icrobial guidelines. . Time gi c Time gi	isia/Critical e-eclampsia. o the site of wen:		
Laboratory tests should be requested as EMERGENCY aiming to have results available and reviewed within 1 hour Section 9 Following history and examination, and in the absence of clinical criteria or signs. Sepsis 6+1 is not commenced. If infection is diagnosed, proceed with usual treatment pathway for that infection.									
□ NO.	Doctor's Name:			Dat	te:	Time:			
Section 10 Look for signs of new organ d from blood tests - any one is s Lactate = 4 after 30mls/lig Intravenous ther Candiovascular - Systolic BP < 90 or Mean A Pressure (MAP) < 65 or Systolic BP more that below patient's normal Respiratory - New or increased need for ony achieve saturation > 90% (note: this is a de- not the target) One or more new organ dysfunction due to in This is SEPSIS. Inform Registrac, O Physic Consider other investigations and m initial therapy as evidenced by haemodynam No new organ dysfunction due to infection: This is NOT SEPSIS. If infection	ufficient: appy R retrial U un 40 L gen to H finition, G nfection: ansagement +/- source ick stabilisation then in	ienal - Creatinine > 1: fritine output < 500mlé dequate fluid resuscit over - Bilinubin > 32 n taermatological - Plate ental Nervous System ental status netics immediately. R e controi if patient do ngnovement.	70 micromol/L or 1/24 hrs – despite ation nicromol/L elets < 100 x 10°/L n - Acutely altered leassess frequently in es not respond to		(following adequitypically 2 litres is intolerant) ☐ Requiring in MAP ≥ 65 ☐ This ☐ Inform Con ☐ Contact CRI Pathwa All Pathway m by the Hospitt and be in lis	is of septic shock ate initial fluid resusci- the first hour unless notropes/pressors to is SEPTIC SH sultant TICAL CARE/Anaest TAY Modifica odifications need to al's Sepsis Steering with the Nationa No 6 Sepsis Manag	o maintain OCK thesia tion be agreed committee if Clinical		
Section 12	linies! U	adause ::	. 100.45 -	_			==		
This section only applies when Doctor's Name (PRINT):	linical Har handover occur		m is completed		is then signed of	by the receiving d	octor.		

File this document in patient notes - Document management plan.

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