

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.
<p>+1 If Pregnant, assess fetal wellbeing</p> <p>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.</p>	

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Sepsis Form - Maternity

(ALWAYS USE CLINICAL JUDGEMENT)

There are separate sepsis criteria for non-pregnant adult patients



If infection suspected following History and Examination, Doctor to complete and sign sepsis screening form

Section 6: Clinical Suspicion of Infection

Document site:

- | | | |
|--|---|--|
| <input type="checkbox"/> Genital Tract | <input type="checkbox"/> Urinary Tract | <input type="checkbox"/> Skin |
| <input type="checkbox"/> Respiratory Tract | <input type="checkbox"/> Intra-abdominal | <input type="checkbox"/> Catheter/Device Related |
| <input type="checkbox"/> Central Nervous System | <input type="checkbox"/> Intra-articular/Bone | <input type="checkbox"/> Unknown |
| <input type="checkbox"/> Other suspected site: _____ | | |

☐ No clinical suspicion of INFECTION: proceed to section 9.

Section 7: Who needs to get the "Sepsis 6" – infection plus any one of the following:

- ☐ SIRS Response, i.e. ≥ 2 SIRS criteria listed on page 1.
- ☐ Clinically or biochemically apparent new onset organ dysfunction, i.e. any one of the following:

<input type="checkbox"/> Acutely altered mental state	<input type="checkbox"/> RR > 30	<input type="checkbox"/> O_2 sat $< 90\%$	<input type="checkbox"/> HR > 130
<input type="checkbox"/> Oligo or anuria	<input type="checkbox"/> Pallor/mottling with prolonged capillary refill	<input type="checkbox"/> SBP < 90	
<input type="checkbox"/> Non-blanching rash	<input type="checkbox"/> Other organ dysfunction		
- ☐ Patients at risk of neutropenia, due to bone marrow failure, autoimmune disorder or treatment including but not limited to, chemotherapy and radiotherapy, who present unwell.

☐ **YES. Start Maternal Sepsis 6 + 1** Time Zero: _____

Section 8

TAKE 3

SEPSIS 6 + 1* – complete *within 1 hour*

GIVE 3

- | | |
|--|---|
| <input type="checkbox"/> BLOOD CULTURES: Take blood cultures before giving antimicrobials (if no significant delay i.e. > 45 minutes) and other cultures as per examination. | <input type="checkbox"/> OXYGEN: Titrate O_2 to saturations of 94–98% or 88–92% in chronic lung disease. N/A <input type="checkbox"/> |
| <input type="checkbox"/> BLOODS: Check point of care lactate & full blood count, U&E +/- LFTs +/- Coag. Other test and investigations as indicated by history and examination. | <input type="checkbox"/> FLUIDS: Start IV fluid resuscitation if evidence of hypovolaemia. 500ml bolus of isotonic crystalloid over 15mins & give up to 2 litres, reassessing frequently. Call Anaesthesia/Critical Care if hypotensive or not fluid responsive. Caution in pre-eclampsia. N/A <input type="checkbox"/> |
| <input type="checkbox"/> URINE OUTPUT: assess urinary output as part of volume/perfusion status assessment. For patients with sepsis or septic shock start hourly urinary output measurement. | <input type="checkbox"/> ANTIMICROBIALS: Give IV antimicrobials according to the site of infection and following local antimicrobial guidelines. |
| | Type: _____ Dose: _____ Time given: _____ |
| | Type: _____ Dose: _____ Time given: _____ |
| | Type: _____ Dose: _____ Time given: _____ |

***+1 If Pregnant, Assess Fetal Wellbeing** ☐

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: _____

Date: _____

Time: _____

Section 10

Look for signs of new organ dysfunction after the Sepsis 6+1 bundle or from blood tests - any one is sufficient:

- | | |
|--|---|
| <input type="checkbox"/> Lactate ≥ 4 after 30mls/kg intravenous therapy | <input type="checkbox"/> Renal - Creatinine > 170 micromol/L or Urine output < 500 ml/24 hrs – despite adequate fluid resuscitation |
| <input type="checkbox"/> Cardiovascular - Systolic BP < 90 or Mean Arterial Pressure (MAP) < 65 or Systolic BP more than 40 below patient's normal | <input type="checkbox"/> Liver - Bilirubin > 32 micromol/L |
| <input type="checkbox"/> Respiratory - New or increased need for oxygen to achieve saturation $> 90\%$ (note: this is a definition, not the target) | <input type="checkbox"/> Haematological - Platelets $< 100 \times 10^9/L$ |
| | <input type="checkbox"/> Central Nervous System - Acutely altered mental status |

One or more new organ dysfunction due to infection:

- ☐ **This is SEPSIS.** Inform Registrar, Consultant and Anaesthetics immediately. Reassess frequently in 1st hour. Consider other investigations and management +/- source control if patient does not respond to initial therapy as evidenced by haemodynamic stabilisation then improvement.

No new organ dysfunction due to infection:

- ☐ **This is NOT SEPSIS.** If infection is diagnosed proceed with usual treatment pathway for that infection.

Section 11

Look for signs of septic shock

(following adequate initial fluid resuscitation, typically 2 litres in the first hour unless fluid intolerant)

- ☐ Requiring inotropes/pressors to maintain MAP ≥ 65

☐ **This is SEPTIC SHOCK**

- ☐ Inform Consultant
☐ Contact CRITICAL CARE/Anaesthesia

Pathway Modification

All Pathway modifications need to be agreed by the Hospital's Sepsis Steering Committee and be in line with the National Clinical Guideline No 6 Sepsis Management.

Section 12

Clinical Handover. Use ISBAR, Communication Tool

This section only applies when handover occurs before the form is completed and is then signed off by the receiving doctor.

Doctor's Name (PRINT): _____

Doctor's Signature: _____

Doctor's Initials: _____

MCRN: _____

Patient care handed over to: _____

Time: _____

Sections completed: _____

File this document in patient notes - Document management plan.

Doctor's Name: _____

Doctor's Signature: _____

MCRN: _____

Date: _____

Time: _____