## Sepsis Predisposition & Recognition There are separate sepsis criteria

(ALWAYS USE CLINICAL JUDGEMENT)

for non-pregnant adult patients



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

I	Section 1:  Midwife Name:  Midwife Signature:  NMBI PIN:  IMEWS:  Date:  Time:	Patient label here	
	dysfunction resulting from	Maternal Sepsis is a life-threatening condition defined as organ lysfunction resulting from infection during pregnancy, childbirth, post-abortion or postpartum period (WHO 2016).	
	Section 2: Are you concerned th	at 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/pa	<ul> <li>□ Possible intrauterine infection</li> <li>□ Myalgia/back pain/general malaise/headache</li> <li>□ New onset of confusion</li> <li>□ Cellulitis/wound infection/perineal infection</li> <li>□ Possible breast infection</li> <li>□ Multiple presentation with non-specific malaise</li> </ul>	
	Section 3: Obstetric History	Risk factors	
В	Para:  Gestation:  Pregnancy related complaints:  Days post-natal: Delivery:  Spontaneous vaginal delivery (SVD)  Vacuum assisted delivery  Forceps assisted delivery  Cesarean section	Pregnancy Related    Cerclage   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	
	□ Cesarean section	☐ Chronic heart failure	
	Record observations on the Irish Maternity Early Warning (IMEWS) chart.		
	· ·	Request immediate medical review if you are concerned the woman has <u>INFECTION</u> plus <u>ANY 1</u> of the following:	
	Section 4:  1. □ IMEWS trigger for immediate review, i.e. ≥2	YELLOWS or ≥2 PINKS	
A	2. ☐ SIRS Response, i.e. ≥2 modified SIRS criteria  Modified SIRS criteria: Note - physiological c ☐ Respiratory rate ≥ 20 breaths/min ☐ Heart rate ≥ 100bpm ☐ Fetal heart rate >160bpm	hanges must be sustained $\geq 30$ mins $\square$ WCC < 4 or > 16.9 x 10 $^{9}$ /L $\square$ Temperature <36 $^{0}$ or $\geq$ 38 $^{0}$ C $\square$ Bedside glucose > 7.7mmol/L  (in the absence of diabetes mellitus)	
	3.   At risk of neutropenia, e.g. on anti-cancer treatment.  Section 5:		
R		ing, escalate to Medical review. Use ISBAR as outlined.  Time Doctor Contacted:	
	DUCTOL 2 Manue:	inne Doctor Contacted:	

Midwife's Signature:

## Sepsis Form - Maternity

(ALWAYS USE CLINICAL JUDGEMENT)

Doctor's Name (PRINT):

Patient care handed over to:

There are separate sensis 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:** ☐ Genital Tract ☐ Urinary Tract ☐ Catheter/Device Related ☐ Respiratory Tract ☐ Intra-abdominal ☐ Central Nervous System ☐ Intra-articular/Bone □ Unknown ☐ 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 modified SIRS criteria listed on page 1. 1. ☐ Clinically or biochemically apparent new onset organ dysfunction, any one of the following:  $\square$  O<sub>2</sub> sat < 90%  $\square$  Acutely altered mental state  $\square$  RR > 30 ☐ HR > 130 ☐ Pallor/mottling with prolonged capillary refill ☐ Oligo or anuria ☐ SBP < 100  $\square$  Other organ dysfunction ☐ Non-blanching rash ☐ Patients who present unwell who are at risk of neutropenia, e.g. on anti-cancer treatment. YES. Start Maternal Sepsis 6 + 1 Time Zero: SEPSIS 6 + 1\* - complete within 1 hour Section 8 GIVE 3 N/A 🗆 ☐ **BLOOD CULTURES:** Take blood cultures before giving antimicrobials OXYGEN: Titrate O<sub>2</sub> to saturations of 94 -98% (if no significant delay i.e. >45 minutes) and other cultures as per or 88-92% in chronic lung disease. N/A □ ☐ **FLUIDS:** Start IV fluid resuscitation if evidence ☐ **BLOODS:** Check point of care lactate & full blood count, U&E +/- LFTs of hypovolaemia. 500ml bolus of isotonic crystalloid over 15mins +/- Coag. Other tests and investigations as per history and & give up to 2 litres, reassessing for signs of hypovolaemia, normovolaemia, or fluid overload. Caution in pre-eclampsia. examination. Other test and investigations and source control as indicated by history and examination. ANTIMICROBIALS: Give IV antimicrobials according to the site of ☐ **URINE OUTPUT:** Assess urine output and consider urinary infection and following local antimicrobial guidelines. catheterisation for hourly measurement in sepsis/septic shock. Dose: Type: Time given: Dose: Time given: Type: \*+1 If Pregnant, Assess Fetal Wellbeing Type: Dose: Time given: 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 is not commenced. If infection is diagnosed, proceed with usual treatment pathway for that infection. NO. Doctor's Name: Section 11: Look for signs of septic shock Section 10: Look for signs of new organ dysfunction - any one is sufficient: (following adequate initial fluid resuscitation, typically Lactate > 2 mmol/L (following adequate initial Renal - Creatinine > 170 micromol/L **or** Urine output 2 litres in the first hour unless fluid intolerant) < 500mls/24 hrs – despite adequate fluid fluid resuscitation, typically 30mls/kg in the first hour unless fluid intolerant) resuscitation AND ☐ Cardiovascular - Systolic BP < 90 or Mean ☐ Requiring inotropes/pressors to maintain ☐ Liver - Bilirubin > 32 micromol/L Arterial Pressure (MAP) < 65 or Systolic BP more ☐ Haematological - Platelets < 100 x 10<sup>9</sup>/L than 40 below patient's normal ☐ This is **SEPTIC SHOCK** Respiratory - New or increased need for oxygen Central Nervous System - Acutely altered mental to achieve saturation > 90% (note: this is a status ☐ Inform consultant definition, not the target) ☐ Contact CRITICAL CARE/Anaesthesia 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 **Pathway Modification** initial therapy as evidenced by haemodynamic stabilisation then improvement. All Pathway modifications need to be agreed No new organ dysfunction due to infection: by the Hospital's Sepsis Steering Committee ☐ **This is NOT SEPSIS**: If infection is diagnosed proceed with usual treatment pathway for that and be in line with the National Clinical infection. Guideline No 6 Sepsis Management. Section 12 Clinical Handover. Use ISBAR<sub>3</sub> Communication Tool

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File this document in patient notes - Document management plan.

Sections completed:

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

Doctor's Signature:

Time:

**Doctor's Name: Doctor's Signature:** MCRN: Date: Time: