



Guideline for the use of the Modified Obstetric Early Warning Scoring (MOEWS) system And for the Care of Women with Sepsis in Pregnancy and the Postnatal Period

Author/Owner	Practice Educator Midwife				
Equality Impact	N/A if clinical guideline or	Date:			
Assessment	procedure	Dato.			
Version	Number 1				
Status	Approved				
Publication date	27/02/2023				
Review date	22/02/2026				
Approval	Maternity guideline group	Date: N/A			
recommended by	Women's Business and	Date: 20/01/2023			
	Governance Meeting				
Approved by	CBU 3 Overarching	Date: 22/02/2023			
	Governance Meeting				
Distribution	Barnsley Hospital NHS Foundation Trust – intranet				
	Please note that the intranet ve	ersion of this document is the only			
	version that is maintained.				
	Any printed copies must theref	fore be viewed as "uncontrolled"			
	and as such, may not necessa amendments	rily contain the latest updates and			





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1.0 [] Introduction

In the WK there were 23 maternal deaths attributed to sepsis between 2017-2019 (Saving Lives, Improving Mother's care - Confidential Enquiry into Maternal Deaths and Morbidity – 2021). Of these, 13 women (6% of total maternal deaths) died of genital /urinary tract sepsis including early pregnancy deaths (direct deaths) and 10 women died from other infections e.g. influenza, pneumonia etc. (indirect deaths).

The mortality rate for pregnancy related sepsis has continued to increase steadily, highlighting the importance of 'thinking sepsis, and not just COVID-19'.

The physiology of pregnancy allows women with sepsis to compensate remarkably well before deterioration is evident, by which point women can be critically unwell. Whilst it is recognised that pregnancy and birth are normal physiological events, there is potential for any woman to be at risk of deterioration. Therefore, all women require close observation and action where there are deviations from normal parameters.

The MBRRACE confidential enquiry – Saving lives, Improving Mothers care (2014) emphasised the need to recognise and act upon signs of ill health.

Performing basic observations (temperature, pulse rate, respiratory rate and blood pressure) can facilitate the prompt recognition of acute illness and/or rapid deterioration of a woman's condition.

Many maternity units have developed their own Modified Early Warning Score as the National Early Warning Score is inappropriate for use in pregnancy (Gopalan PD 2004). For pregnant patients the Modified Obstetric Early Warning System (MOEWS) chart (appendix 1) has been specifically produced to reflect the physiological adaptations of normal pregnancy and the early postnatal period.

The benefits of the Modified Obstetric Early Warning Score (MOEWS) include:

- Providing a standardised objective measure of clinical improvement or deterioration.
- Facilitating the early identification of women at risk of deterioration.
- Facilitating close observation of women recently discharged from critical or high dependency care to ward area.
- Enabling all maternity staff to escalate to senior staff in a timely way.
- Assisting in early diagnosis of complications.

2.0 Objective

This guidance provides staff with information on recognising and monitoring the obstetric patient using the MOEWS chart to minimise the risk of maternal death from sepsis.

It provides provide guidance on:

- How observations should be recorded and assessed. (MOEWS chart/ Appendix 1)
- Using the MOEWS to guide clinical decision making. (Protocol for escalation of the deteriorating patient/ Appendix 2)
- Diagnosing sepsis
- Management of sepsis and septic shock

3.0 Scope

This guideline should be followed by all staff caring for women who are pregnant and up to six weeks post-partum.

It applies to all antenatal, intrapartum and postnatal women. It also covers the peri-operative period in pregnant women undergoing elective or emergency surgical procedures either related or unrelated to their pregnancy.



The MOEWS chart must be used on all pregnant patients when attending or when admitted to hospital. See appendix 1

The chart should be used in conjunction with, not instead of, existing care pathway documentation, high dependency or epidural charts.

One MOEWS chart should follow the patient throughout each admission.

If more than one MOEWS chart is used keep these together so that a trend in observations can be seen.

A MOEWS should be performed on transfer to a new ward area.

4.1 Observations required

Observations required to calculate a MOEWS score are:

- Respiratory rate
- Oxygen saturations
- Oxygen requirements
- Temperature
- Heart rate

4.0 tomoews

- Systolic blood pressure
- Diastolic blood pressure
- Level of consciousness (AVPU)
- Urine output
- Nausea
- Whether the patient 'looks unwell'

Observations should be documented in the appropriate box on the MOEWS chart.

A numerical value is assigned to each observation, and the total score calculated and recorded.

4.1.1 Respiratory rate

- Respiratory rate is the most sensitive indicator of deterioration and must be recorded as part of every MOEWS assessment.
- Changes may indicate sepsis, respiratory problems, cardiac problems or blood loss.
- Respiratory rate changes in labour occur due to pain and patient effort, particularly during the active second stage of labour. This needs to be taken into consideration when recording during labour.

4.1.2 Oxygen saturations and oxygen therapy

- If oxygen is being administered it must be prescribed, the flow rate should be recorded and oxygen saturations monitored.
- Oxygen saturations must be documented at each MOEWS assessment.
- If there is an unexplained abnormal oxygen saturation reading, equipment error may be considered and an alternative probe utilised.
- Some patients may require oxygen therapy to maintain normal oxygen saturations.
 - o This may indicate respiratory failure, sepsis or bleeding
 - Oxygen flow rates of either 1-4L/min or >4L/min must be recorded on the MOEWS chart

PROUD 4.1.3¹⁰ Temperature



- temperature is as significant as a high temperature. Hypothermia is defined as a core temperature <36°C.
- Hypothermic women should be warmed using blankets and warm fluids.
- Changes in temperature may indicate sepsis, major haemorrhage or a post transfusion reaction (particularly a large transfusion), and may be the first and only change on the MOEWS.

4.1.4 Heart rate

Tachycardia can be an indication of infection, haemorrhage or pain

4.1.5 Blood Pressure

- A rise in blood pressure should be regarded as a sign of potential Pregnancy Induced Hypertension (PIH). Anti-hypertensives may need to be considered.
- A fall in blood pressure should be regarded as a late sign of deterioration.
- Consider trends in blood pressure, comparison to booking blood pressure readings and the overall clinical picture
- Women having epidural analgesia for labour should have their blood pressure monitored according to the epidural care pathway.
- An abnormal blood pressure on an automated machine must not be ignored and regarded as erroneous. If in doubt, a manual blood pressure should be taken.

4.1.6 Level of consciousness

- Neurological response should be initially assessed and documented on the MOEWS chart for all women using the AVPU score.
- If warranted, a Glasgow Coma Scale (GCS) score should be performed by a competent practitioner.
- An altered neurological status may represent intracranial problems, respiratory or cardiovascular compromise.
- Assessing neurological status using AVPU involves the following:
 - Alert: the patient is alert and orientated
 - Voice: the patient responds only to verbal commands
 - <u>Pain:</u> the patient is ONLY responsive to pain. The on-call
 Anaesthetist and on-call Obstetrician should be asked to review the patient immediately.
 - <u>Unresponsive</u>: if unresponsive, check for pulse and breathing.
 If pulse is present and the patient is breathing fast bleep the obstetrics registrar and obstetric anaesthetist.
 If no pulse/no breathing, then the 2222 should be called and adult cardiac arrest team requested.

4.1.7 Urine output

- In the majority of women urine output does not need to be routinely measured. However, it should be discussed with women at each MOEWS assessment whether reasonable volumes of urine have been voided.
- A fluid balance chart should be commenced in the following instances:
 - Women who score on the MOEWS chart





Women with abnormal fluid losses such as vomiting, significant blood loss, haemorrhage, drains or diarrhoea

Women with pre-eclampsia or eclampsia

4.1.8 Patients who 'looks unwell'

Women may look or feel unwell, but their MOEWS may not reflect this. Pregnant patients compensate very well to physiological stress, in particular cardiovascular stress. Looking or feeling unwell has been shown to be a precursor to physiological changes.

Staff must have a high index of suspicion when a woman reports feeling unwell

4.2 New symptoms

If the patient complains of new symptoms, a full MOEWS assessment must be performed. For example, if a woman reports the following symptoms:

- Pre-eclampsia symptoms headache, dizziness, nausea and vomiting, visual disturbance
- Persistent abdominal pain may indicate sepsis or bleeding
- Increase in PV blood loss may indicate an antepartum or postpartum haemorrhage
- Offensive PV loss may indicate infection or sepsis
- Shortness of breath / chest pain may indicate a pulmonary embolism, pulmonary oedema, pneumonia or early Acute Respiratory Distress Syndrome

4.3 Frequency and documentation of MOEWS

Patients admitted to the antenatal/ postnatal ward will be allocated to either the low risk pathway or the high risk pathway for observations by the medical team admitting the patient. If possible, the woman's normal observations should be noted for comparison, especially if they have a chronic illness.

Minimum observation frequencies on these pathways are:

- Low risk pathway: one full set of observations recorded every 12 hours.
- High risk pathway: one full set of observations recorded every 4 hours

A MOEWS score of

- 1 requires observations to be undertaken 2-4 hourly and the person carrying out the observations must alert the midwife caring for the woman
- 2 requires observations to be undertaken 1-2 hourly and the midwife must decide if a medical review is needed
- 3-4 requires medical review within 30 minutes
- 5-6 or ≥3 in one category requires medical review within 15 minutes by senior obstetrician and obstetric anaesthetist
- <u>>7</u> requires medical review immediately by both senior obstetrician and obstetric anaesthetist

Observations should be documented on the MOEWS chart in the antenatal, post-partum and peri-operative periods.

Intrapartum maternal and fetal observations should be recorded on the partogram; this should be documented in the care plan

Some patients will be monitored on different charts e.g. maternity enhanced care/ICU chart. This should be documented in the care plan.





5.1 **Definition**

Sepsis is a clinical syndrome caused by the body's immune and coagulation systems being switched on by infection.

Septic shock is a life-threatening condition that is characterized by low blood pressure despite adequate fluid replacement; and organ dysfunction or failure.

Potential complications of sepsis/septic shock include:

- Acute respiratory distress syndrome (ARDS)
- Disseminated Intravascular Coagulation (DIC)
- Acute renal failure
- Liver failure
- CNS dysfunction
- Cardiac failure
- Death

Women with certain clinical/medical factors are at greater risk of developing sepsis, these include but are not limited to:

- Women with impaired immunity (e.g. steroids, chemotherapy)
- Women who have had recent trauma/ surgery/ invasive procedure
- Women with indwelling lines / broken skin
- Women who have developed gestational diabetes

5.2 Prevention and early detection of sepsis

Pregnant women and women in the postnatal period (up to 6 weeks post-partum) are a high-risk group for sepsis.

They may present with non-specific, non-localized symptoms such as feeling unwell and will not necessarily have a raised temperature.

Family members may report changes in behaviour /mental state.

In the Antenatal Period

- Women must seek prompt medical advice if they develop fever, malaise, breathlessness, abdominal pain, diarrhoea, or hypothermia
- Relevant investigations including throat swabs in cases of suspected upper respiratory tract infection must be taken
- Women must be advised to seek prompt medical advice if they develop symptoms of fever, malaise, abdominal pain, abnormal vaginal discharge or diarrhoea after the following procedures:
 - o Amniocentesis
 - o Chorionic villus sampling
 - o Insertion of a cervical suture
 - Amniotomy (AROM)
 - Prolonged rupture of membranes

In the Intrapartum period

Women in labour must have an obstetric review if they:

- Complain of unexpected abdominal pain with/without signs of fetal distress and/or diarrhoea
- Present with offensive liquor or vaginal discharge





Present with a known infection requiring treatment

In the postnatal period

Women in the postnatal period must have an obstetric review if they:

- Develop signs of a wound infection (abdominal or perineal/genital tract)
- Present with offensive lochia and/or sub-optimal uterine involution
- Present with signs of mastitis
- Present with abdominal pain and/or diarrhoea
- Present with signs of a urinary tract infection
- Present with fever and general malaise associated with a sore throat or upper respiratory tract infection or following contact with another person with a sore throat or upper respiratory tract infection

If the woman is in the community they should be referred for an obstetric review in the Maternity Assessment Unit.

The above lists are not exhaustive.

5.3 Diagnosis of Sepsis

If sepsis is suspected, it is essential to identify the source of infection:

- Review clinical history
- Perform a thorough clinical examination to assess for infection
- Consider further imaging including X-ray, ultrasound, CT as appropriate.

If there is no likelihood of infection then sepsis is unlikely.

Consider an alternative diagnosis.

5.4 Management of Sepsis

The UK Sepsis Trust recommends use of the Maternal Sepsis Screening Tool if a patient looks unwell or MOEWS has triggered.

This can be used for women who are currently pregnant and up to six weeks postpartum. (See Appendix 3 or 4 depending on woman's location)

The same observations taken to calculate a MOEWS score are categorised as either red, amber or no flag for maternal sepsis

Red flags for maternal sepsis

- Objective evidence of new or altered mental state
- Systolic BP ≤90mmHg (or drop of >40 from normal)
- Heart rate ≥130 per minute
- Respiratory Rate >25 per minute
- Needs oxygen to keep SpO₂ ≥92%
- Non-blanching rash/mottled/ashen/cyanotic
- Lactate >2 mmol/L (may be raised in and immediately after normal delivery)
- Not passed urine in 18 hours (0.5ml/kg/h if catheterised)

The presence of any one **RED FLAG** prompts the immediate completion of the SEPSIS SIX PATHWAY

All actions must be completed within one hour:

1. Ensure senior clinician attends





Not all patients with red flags will need 'Sepsis 6' urgently.

senior decision maker may seek alternative diagnoses/de-escalate care

Oxygen if required

Start if O₂ saturation <92%.

Aim for O_2 saturations of 94-98%.

If at risk of hypercarbia, aim for saturations of 88-92%

- 3. Send bloods including cultures, blood glucose, lactate, FBC, U&E, CRP and clotting. Lumbar puncture if indicated
- 4. Give IV antibiotics maximum dose broad spectrum therapy.

Consider local policy/allergy status/antivirals.

Think source control - evaluate need for imaging/specialist review.

If source amenable to drainage, ensure achieved as soon as possible, but always within 12 hours

5. Give IV fluids - in divided fluid boluses of 500ml.

NICE recommends using lactate to guide further fluid therapy

6. Monitor - use MOEWS.

Measure urine output: this may require a urinary catheter.

Repeat lactate at least once per hour if clinical condition changes.

If Red flags persist after one hour - escalate to consultant immediately

Amber Flags for maternal sepsis

- Acute deterioration in functional ability
- Respiratory rate 21-24
- Heart rate 100-129 or new dysrhythmia
- Systolic BP 91-100
- Has had invasive procedure in last 6 weeks (e.g. Caesarean Section, forceps delivery, Evacuation of Retained Products of Conception, cerclage, Chorionic Villus Sampling, miscarriage, termination)
- Temperature <36C
- Has diabetes or gestational diabetes
- Close contact with Group A Streptococcus infection
- Prolonged rupture of membranes
- Bleeding / wound infection
- Offensive vaginal discharge
- Non reassuring CTG/fetal tachycardia >160
- · Behavioural/mental status change

Any ONE AMBER FLAG requires further review including:

- 1. Send full set of bloods
- 2. Ensure senior clinical review within 60 minutes
- 3. Give antimicrobials if needed
- 4. Plan for escalation and source control (if applicable) within 3 hours

Antibiotic administration

Before giving antibiotics: take blood cultures and urine, sputum, vaginal swabs, breast milk, throat swabs etc.

Where the source of infection is clear use local antibiotic guidance.



Antibiotic therapy must be reviewed in consultation with microbiologist depending on the patient's clinical need/ culture results.

For women with a suspected infection but no clear diagnosis:

- Start broad spectrum antibiotics immediately
 - Co-amoxiclav and metronidazole
 - Clindamycin and gentamicin if penicillin allergic
- Clindamycin is the antibiotic of choice for Group A streptococcal infection (GAS), add this to the antibiotic regime if GAS is suspected or the patient is very unwell.
- In cases of Severe sepsis: Tazocin and Clindamycin (Discuss with microbiology)
- In cases of Septic Shock: Tazocin, Clindamycin and gentamicin (Discuss with microbiology)
- If meningococcal infection is suspected (fever and purpuric rash) give Ceftriaxone

Treat the source if applicable:

- Drainage of abscess, evacuation of retained products of conception etc.
- Management of a woman in the antenatal or intrapartum period may involve delivery of the baby, especially if chorioamnionitis is the cause of sepsis
- The decision to deliver the baby will be made by a senior obstetrician based on the whole clinical picture including the source and severity of sepsis, gestation, fetal wellbeing, stage and progress of labour, parity, response to treatment.
- If a preterm delivery is anticipated consider the use of corticosteroids for fetal lung maturity.
- Avoid epidural or spinal anaesthesia in women with sepsis

5.5 Acute Kidney Injury (AKI)

Acute Kidney injury must be considered if a woman has a creatinine level of > 90 micromols/l (as well as other criteria). This will be flagged as an AKI alert on the ICE system. The result must be reviewed by the obstetric team for further investigation.

A joint discussion between the Obstetric Consultant and Obstetric Anaesthetist must take place for:

- Any concerns regarding an ICE alert
- Cases where a rare pregnancy related AKI might exist
- Any non-pregnancy AKI cause

If concerns remain, contact the Renal SPR on call at Northern General Hospital, Sheffield via Switchboard, for advice.

If a patient is deteriorating consider involving the Critical Care team early.



NHS Foundation Trust KL is present (Urine output < 0.5mls/kg/hr / elevated creatinine) manage as per the table

STOP-AKI	STOP-AKI Immediate AKI RESPONSE					
Sepsis	Start Sepsis Six care bundle / Identify and treat source					
	Oxygen/ hourly urine output / lactate/ cultures / IV antibiotics / consider fluids					
Toxins	Toxins Stop/Adjust nephrotoxins					
	e.g. gentamicin, NSAIDS, contrast prophylaxis if CT contrast scan					
Optimise	Optimise Assess volume status / Assess BP parameters in obstetric context					
BP	BP Critical Care or Renal advice if deteriorating / need vasopressors					
Prevent	Prevent Treat complications / Identify AKI cause and investigate /					
Harm	Harm Review medications / Obstetric Fluid Management Plan					
Antenatal – the patient will require enhanced care. Monitor heart rate, blood pressure,						
respiratory rate, oxygen saturation, fluid balance and chest auscultation at least every hour						
Intrapartum – monitor all observations as listed hourly: heart rate, blood pressure, respiratory						
rate, oxygen	saturation, fluid balance and chest auscultation					
Continue to n	nonitor fluid balance and renal function until the AKI has recovered					

5.6 Management of septic shock

Septic shock is a life-threatening condition that is characterised by low blood pressure, despite adequate fluid replacement; and organ dysfunction or failure.

Management requires transfer to enhanced care and immediate review by the Anaesthetist and Obstetrician (Registrar or Consultant).

Consider the following rescue measures and document all observations on the maternity enhanced care chart:

A: Establish airway patency; apply 15l/min oxygen via reservoir mask.

B: Check respiratory rate.

Attach SpO₂ monitoring.

Check ABGs including lactate. Serum lactate will identify patients with hypoperfusion but without hypotension.

C: Check pulse rate.

Check peripheral perfusion: capillary refill time <2 seconds and warmth of the extremities.

Check urine output and fluid balance status.

Check BP (remember sepsis can produce significant vasodilatation and patients may be profoundly hypotensive but have warm peripheries)

Establish intravenous access with 2 X large bore cannulae.

Send blood for FBC, U&Es, Coagulation, LFTs, CRP, G&S, blood cultures.

Give an intravenous fluid bolus of 500mls or 20ml/kg of a crystalloid solution

Check temperature and instigate measures to normalise temperature.

Arterial line may be required for blood pressure monitoring and blood gas sampling

D: Check blood glucose

Check level of consciousness

Nurse the woman in a left lateral tilt if she is pregnant

Fetal monitoring (if applicable)



Escalation to Critical Care

Involve the Critical Care team **early** in the management of severe sepsis and septic shock.

Criteria of patients who need Critical Care admission:

- Hypotension or raised serum lactate levels despite fluid resuscitation and requiring vasopressor support
- Pulmonary oedema or requiring airway protection or ventilation
- Requiring renal dialysis
- Significantly decreased level of consciousness
- Multi-organ failure
- Uncorrected acidosis
- Severe Hypothermia

Neonatal Care

Refer to the following guidelines when developing neonatal care plans:

- Guideline for the Prevention of Early-onset Neonatal Group B Streptococcal Disease
- Guideline for the Prevention of Early Onset Neonatal infection

6.0 Roles and responsibilities

6.1 Midwives

All observations must be completed on initial assessment and documented on a MOEWS chart.

All observations must be completed as a minimum 12 hourly or as indicated by the MOEWS score.

Take appropriate action according to each score.

Consider the possibility of sepsis in maternity patients with risk factors for sepsis, or signs and symptoms of infection or deterioration.

Escalate in a timely manner if sepsis is suspected from clinical picture and /or clinical observations.

6.2 Obstetricians

Timely review of patients when requested and further escalation if needed.

Obstetric Consultant to review urgent and high risk cases.

Consider the possibility of sepsis in maternity patients with risk factors for sepsis, or signs and symptoms of infection or deterioration

Respond in a timely manner if sepsis is suspected from the clinical picture or clinical observations.

Instigate management plans and escalate accordingly.

Early involvement of obstetric doctors, anaesthetists and if required critical care outreach team.

6.3 Anaesthetists

Timely review of patients when requested.

Facilitate timely transfer to Critical Care if needed.



7.0 10 Associated documents and reference

Knight M, et al (2020) of MBRRACE-UK. Saving Lives, Improving Care - Lessons learned to inform future maternity care from the UK and Ireland Confidential Enquiries into Maternal Deaths and Morbidity 2016-18

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Singh S, McGlennan A, England A, Simons R. A validation study of the CEMACH recommended modified early obstetric warning system (MOEWS)*. Anaesthesia 2012, 67, 12–18

The Sepsis Manual: 5th Edition, The UK Sepsis Trust, <u>www.sepsistrust.org/professional-resources/clinical/</u>

Royal College of Obstetricians & Gynaecologists (RCOG) Roles and responsibilities of the consultant providing acute care in obstetrics and gynaecology May 2022

The Sepsis Manual: 5th Edition, The UK Sepsis Trust, <u>www.sepsistrust.org/professional-resources/clinical/</u>

MBRRACE – UK. Saving Lives, Improving Mothers' Care. Surveillance of maternal deaths in the UK 2017-19 and lessons learned to inform maternity care from the UK and Ireland Confidential Enquiries into Maternal deaths and Morbidity 2017-19 (2021) [online] www.npeu.ox.ac.uk/mbrrace-uk

National Institute for Health and Care Excellence: Clinical guideline 121 intrapartum care for women with existing medical conditions or obstetric complications and their babies (2019) [online] www.nice.org.uk

National Institute for Health and Care Excellence. Clinical guidance 51. Sepsis: recognition, diagnosis and early management (2016, Last Updated 2017) [online] www.nice.org.uk

RCOG Green Top Guidelines 64 a and 64 b. Sepsis in Pregnancy and bacterial Sepsis following pregnancy.

8.0 Training and resources

Training will be delivered as outlined in the Maternity Training Needs Analysis. This is updated on an annual basis.

9.0 Monitoring and audit

Any adverse incidents relating to the guideline for Modified Obstetric Early Warning Score (MOEWS) will be monitored via the incident reporting system. Any problems will be actioned via the case review and root cause analysis action plans. The action plans are monitored by the risk midwife to ensure that improvements in care are made.

The trends and any root cause analysis are discussed at the monthly risk meetings to ensure that appropriate action has been taken to maintain safety.



The guideline for Modified Obstetric Early Warning Score (MOEWS) will be audited in line with the annual audit programme, as agreed by the CBU. The audit action plan will be reviewed at the monthly risk management meetings on a quarterly basis and monitored by the risk midwife to ensure that improvements in care are made.

10.0 Equality and Diversity

The Trust is committed to an environment that promotes equality and embraces diversity in its performance as an employer and service provider. It will adhere to legal and performance requirements and will mainstream equality, diversity and inclusion principles through its policies, procedures and processes. This guideline should be implemented with due regard to this commitment.

To ensure that the implementation of this guideline does not have an adverse impact in response to the requirements of the Equality Act 2010 this policy has been screened for relevance during the policy development process and a full equality impact assessment is conducted where necessary prior to consultation. The Trust will take remedial action when necessary to address any unexpected or unwarranted disparities and monitor practice to ensure that this policy is fairly implemented.

This guideline can be made available in alternative formats on request including large print, Braille, moon, audio, and different languages. To arrange this please refer to the Trust translation and interpretation policy in the first instance.

The Trust will endeavor to make reasonable adjustments to accommodate any employee/patient with particular equality, diversity and inclusion requirements in implementing this guideline. This may include accessibility of meeting/appointment venues, providing translation, arranging an interpreter to attend appointments/meetings, extending policy timeframes to enable translation to be undertaken, or assistance with formulating any written statements.

10.1 Recording and Monitoring of Equality & Diversity

The Trust understands the business case for equality, diversity and inclusion and will make sure that this is translated into practice. Accordingly, all guidelines will be monitored to ensure their effectiveness.

Monitoring information will be collated, analysed and published on an annual basis as part of Equality Delivery System. The monitoring will cover the nine protected characteristics and will meet statutory employment duties under the Equality Act 2010. Where adverse impact is identified through the monitoring process the Trust will investigate and take corrective action to mitigate and prevent any negative impact.





Appendix 1 MOEWS chart and Scoring System

MOEW 8 On Admile Respiration	CHART scion ions py ture	DATE OF TIME >30 21-30 11-20 11-20 11-20 94-100% 90-93% 85-85% 14-1 >38-37.9° 36:37.9° 35:135.9° >560 140 150 100 90 90 90 90 90 90 90 90 90 90 90 90 9													3 1 2 3 1 2	AlE	JF A	JMIS	310%									DATE TIME >30 21-30 11-20 0-10 94-100% 90-93% 85-89%
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PROUD



lU						MIIS	roundation
Care Score	3	2	1	0	1	2	3
Resp rate breaths/ min	≤ 10			11- 20	21-30		> 30
O2 Sats %	< 85	85-89	90-93	94 -100			
O2 req(lt)					1-4	>4	
Temp °C		< 35	35 -35.9	36 -37.9	38- 38.9	<u>≥</u> 39	
Heart Rate bpm	<50			50 - 99	100-119	120-139	≥ 140
Systolic BP mmHg	<60	60 - 89	90 - 99	100 -149	150-159	160-169	> 170
Diastolic BP mmHg	<40			40 - 89	90 - 99	100-109	≥ 110
AVPU	P/U		V	Α			
Urine ml/hr		<20					
Nausea			Yes	No			
Looks unwell				No	Yes		
Total Score							





Appendix 2: Protocol for escalation of the deteriorating patient

Low risk	A score of 1 or 2 is low risk
1-2	Inform a registered Midwife
	Increase observation frequency
	Score1: 2-4 hourly
	Score 2:1-2 hourly
	Clinical judgement must be used to consider whether increased
	observation frequency is sufficient at this stage
	If concerns are present, escalate to a Tier One Doctor or above
	If score increases, act as per relevant risk actions below
Medium risk	A score of 3 or 4 is medium risk
3-4	Midwife to inform Tier One Doctor or above and request review within 30
	minutes
	If no review within 30 minutes escalate to Tier Two Doctor
	Midwife to inform Labour Ward Coordinator
	If no improvement after initial treatment, inform Anaesthetist and Senior
	Obstetrician
	Consider transfer to Labour Ward for closer monitoring and care
	5
High risk	A score of 5-6, or a score of 3 in 1 parameter is high risk
High risk 5-6	
	A score of 5-6, or a score of 3 in 1 parameter is high risk
5-6	A score of 5-6, or a score of 3 in 1 parameter is high risk Midwife to inform Tier Two Doctor or above, and Anaesthetist and
5-6 OR a score	 A score of 5-6, or a score of 3 in 1 parameter is high risk Midwife to inform Tier Two Doctor or above, and Anaesthetist and request review within 15 minutes
5-6 OR a score of 3 in one	 A score of 5-6, or a score of 3 in 1 parameter is high risk Midwife to inform Tier Two Doctor or above, and Anaesthetist and request review within 15 minutes If no review within 15 minutes escalate to Consultant
5-6 OR a score of 3 in one parameter	 A score of 5-6, or a score of 3 in 1 parameter is high risk Midwife to inform Tier Two Doctor or above, and Anaesthetist and request review within 15 minutes If no review within 15 minutes escalate to Consultant Transfer to Labour Ward for closer monitoring and care, when safe
5-6 OR a score of 3 in one parameter Urgent risk	 A score of 5-6, or a score of 3 in 1 parameter is high risk Midwife to inform Tier Two Doctor or above, and Anaesthetist and request review within 15 minutes If no review within 15 minutes escalate to Consultant Transfer to Labour Ward for closer monitoring and care, when safe A score of 7 or above is an urgent risk
5-6 OR a score of 3 in one parameter Urgent risk	 A score of 5-6, or a score of 3 in 1 parameter is high risk Midwife to inform Tier Two Doctor or above, and Anaesthetist and request review within 15 minutes If no review within 15 minutes escalate to Consultant Transfer to Labour Ward for closer monitoring and care, when safe A score of 7 or above is an urgent risk Contact Senior Obstetrician and Anaesthetist and ask to review immediately 2222 bleep obstetric emergency team if not immediately available in the
5-6 OR a score of 3 in one parameter Urgent risk	 A score of 5-6, or a score of 3 in 1 parameter is high risk Midwife to inform Tier Two Doctor or above, and Anaesthetist and request review within 15 minutes If no review within 15 minutes escalate to Consultant Transfer to Labour Ward for closer monitoring and care, when safe A score of 7 or above is an urgent risk Contact Senior Obstetrician and Anaesthetist and ask to review immediately
5-6 OR a score of 3 in one parameter Urgent risk	 A score of 5-6, or a score of 3 in 1 parameter is high risk Midwife to inform Tier Two Doctor or above, and Anaesthetist and request review within 15 minutes If no review within 15 minutes escalate to Consultant Transfer to Labour Ward for closer monitoring and care, when safe A score of 7 or above is an urgent risk Contact Senior Obstetrician and Anaesthetist and ask to review immediately 2222 bleep obstetric emergency team if not immediately available in the
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5-6 OR a score of 3 in one parameter Urgent risk	 A score of 5-6, or a score of 3 in 1 parameter is high risk Midwife to inform Tier Two Doctor or above, and Anaesthetist and request review within 15 minutes If no review within 15 minutes escalate to Consultant Transfer to Labour Ward for closer monitoring and care, when safe A score of 7 or above is an urgent risk Contact Senior Obstetrician and Anaesthetist and ask to review immediately 2222 bleep obstetric emergency team if not immediately available in the clinical area. If the fetus is compromised, also consider 2222 for the Neonatal Emergency team If out of hours, Consultant to be informed to attend as per RCOG Roles
5-6 OR a score of 3 in one parameter Urgent risk	 A score of 5-6, or a score of 3 in 1 parameter is high risk Midwife to inform Tier Two Doctor or above, and Anaesthetist and request review within 15 minutes If no review within 15 minutes escalate to Consultant Transfer to Labour Ward for closer monitoring and care, when safe A score of 7 or above is an urgent risk Contact Senior Obstetrician and Anaesthetist and ask to review immediately 2222 bleep obstetric emergency team if not immediately available in the clinical area. If the fetus is compromised, also consider 2222 for the Neonatal Emergency team If out of hours, Consultant to be informed to attend as per RCOG Roles and responsibilities of a Consultant 2022
5-6 OR a score of 3 in one parameter Urgent risk	 A score of 5-6, or a score of 3 in 1 parameter is high risk Midwife to inform Tier Two Doctor or above, and Anaesthetist and request review within 15 minutes If no review within 15 minutes escalate to Consultant Transfer to Labour Ward for closer monitoring and care, when safe A score of 7 or above is an urgent risk Contact Senior Obstetrician and Anaesthetist and ask to review immediately 2222 bleep obstetric emergency team if not immediately available in the clinical area. If the fetus is compromised, also consider 2222 for the Neonatal Emergency team If out of hours, Consultant to be informed to attend as per RCOG Roles and responsibilities of a Consultant 2022 Contact Critical Care
5-6 OR a score of 3 in one parameter Urgent risk	 A score of 5-6, or a score of 3 in 1 parameter is high risk Midwife to inform Tier Two Doctor or above, and Anaesthetist and request review within 15 minutes If no review within 15 minutes escalate to Consultant Transfer to Labour Ward for closer monitoring and care, when safe A score of 7 or above is an urgent risk Contact Senior Obstetrician and Anaesthetist and ask to review immediately 2222 bleep obstetric emergency team if not immediately available in the clinical area. If the fetus is compromised, also consider 2222 for the Neonatal Emergency team If out of hours, Consultant to be informed to attend as per RCOG Roles and responsibilities of a Consultant 2022

- Where a doctor is unavailable to review escalate to the next level of seniority.
- Escalate concerns using the principles of SBAR communication to the relevant person.
- All MOEWS scores, requests for review and further actions should be documented in the notes, including times.



Appendix 3 – Sepsis Screening Tool Acute Assessment and Sepsis Six (The UK Sepsis Trust)

SEPSIS SCREENING TOOL ACU	TE ASSESSMENT	PREGNANT OR UP TO 6 WEEKS POST-PREGNANCY
PATIENT DETAILS:	DATE: NAME: Designation: Signature:	TIME:
START THIS CHART IF UNWELL OR MEOWS HE RISK FACTORS FOR SEPSIS INCLUDE: Impaired immunity (e.g. steroids, chemotherapy) Recent trauma / surgery / invasive procedure		
O 2 IS THIS LIKELY TO BE DUE TO AN INFE LIKELY SOURCE: Urine Chest Breast abscess/mastitis Abdominal	ECTION? Infected caesarean/perin Chorioamnionitis or endo	DIAGNUSIS
Objective evidence of new or altered mental stat Systolic BP ≤ 90 mmHg (or drop of >40 from normal) Heart rate ≥ 130 per minute Respiratory rate ≥ 25 per minute Needs O₂ to keep SpO₂ ≥ 92% Non-blanching rash / mottled / ashen / cyanotic Lactate ≥ 2 mmol/l* Not passed urine in 18 hours (<0.5ml/kg/hr if catheterise *lactate may be raised in & immediately after normal delivery	SEF START	FLAG PSIS IS SIX
ANY AMBER FLAG PRESENT? Acute deterioration in functional ability Respiratory rate 21-24 Heart rate 100-129 or new dysrhythmia Systolic BP 91-100 mmHg Has had invasive procedure in last 6 weeks (e.g. Cs. forceps delivery. ERPC, cerolage, CVs, miscarriage, termination) Temperature < 36°C Has diabetes or gestational diabetes Close contact with GAS Prolonged rupture of membranes Bleeding / wound infection Offensive vaginal discharge Non-reassuring CTG / fetal tachycardia >160 Behavioural / mental status change	SEND FULL SET OF BE ENSURE SENIOR CLIN MINUTES IF ANTIMICROBIALS A	LOODS IIICAL REVIEW WITHIN 60 ARE NEEDED, THESE SHOULD IN MADE FOR ESCALATION & ITHIN 3 HOURS
NO AMBER FLAGS = ROUTINE CARE /CONSIDER		THE UK SEPSIS

OTHER DIAGNOSIS







SEPSIS SCREENING TOOL -	THE SEPSIS SIX	PREGNANT OR UP TO 6 WEEKS POST-PREGNANCY
PATIENT DETAILS:	DATE: NAME: DESIGNATION: SIGNATURE:	TIME:
COMPLETE ALL ACT	IONS WITHIN	ONE HOUR
ENSURE SENIOR CLIN NOT ALL PATIENTS WITH RED FLAGS WILL NET DECISION MAKER MAY SEEK ALTERNATIVE DIA	ED THE 'SEPSIS 6' URGENTLY. A SENIO	TIME
OXYGEN IF REQUIRED START IF 02 SATURATIONS LESS THAN 92% - A 94-98% IF AT RISK OF HYPERCARBIA AIM FOR	IM FOR 02 SATURATIONS OF	TIME
SEND BLOODS INCLUI BLOOD CULTURES, BLOOD GLUCOSE, LACTATE PUNCTURE IF INDICATED		TIME BAR
GIVE IV ANTIBIOTICS, MAXIMUM DOSE BROAD SPECTRUM THERAPY, CONS EVALUATE NEED FOR IMAGING/ SPECIALIST REVIEW IF SOURCE AMENABLE TO DRAINAGE ENSURE ACHIE	IDERLOCAL POLICY / ALLERGY STATUS / AN	ITIVIRALS
GIVE IV FLUIDS GIVE IN DIVIDED FLUID BOLUSES OF 500mL NICE RECOMMENDS USING LACTATE TO GUIDE	FURTHER FLUID THERAPY	TIME
MONITOR USE MEOWS. MEASURE URINARY OUTPUT: THIS REPEAT LACTATE AT LEAST ONCE PER HOUR IF		TIME
RED FLAGS AFTER ONE HOUR	- ESCALATE TO CON	SULTANT NOW

RECORD ADDITIONAL NOTES HERE:

e.g. allergy status, arrival of specialist teams, de-escalation of care, intentional delayed antimicrobial decision making, variance from Sepsis 6



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Barnsley Hospital

Appendix 4 -Sepsis screening tool for community midwives (The UK Sepsis Trust)

SEPSIS SCREENING TOOL COMMUNITY MIDWIVES	PREGNANT OR UP TO 6 WEEKS POST-PREGNANCY
START THIS CHART IF THE PATIENT LOOKS UNWELL RISK FACTORS FOR SEPSIS INCLUDE: Recent trauma / surgery / invasive procedure Impaired immunity (e.g. diabetes, steroids, chemotherapy)	J / broken skin
COULD THIS BE DUE TO AN INFECTION? LIKELY SOURCE: Respiratory Urine Infected caesarean / perines Breast abscess Abdominal pain / distension Chorioamnionitis / endome	
Objective evidence of new or altered mental state Systolic BP ≤ 90 mmHg (or drop of >40 from normal) Heart rate ≥ 130 per minute Respiratory rate ≥ 25 per minute Needs O₂ to keep SpO₂ ≥ 92% (88% in COPD)	FLAG PSIS BUNDLE
Has diabetes or gestational diabetes (INCLUDING	EFERRAL TO COUIRED? DOCUMENT NAGEMENT PLAN OBSERVATION AND PLANNED
NO AMBER FLAGS = ROUTINE CARE / CONSIDER OF COMMUNITY MIDWIFE RED FLAG BUNDLE: THIS IS TIME-CRITICAL-IMMEDIATE ACTION REQUIRED: DIAL 999 AND ARRANGE BLUE LIGHT TRANSFER	THE UK SEPSIS TRUST UKST 2020 CM1.3 PAGE 1 0F 1
COMMUNICATION: Ensure communication of 'Red Flag Sepsis' to crew. Advise crew to pre-alert as 'Red Flag Sepsis'. Where possible a written handover is recommended including observations and antibiotic allergies. The controlled copy of this document is maintained by The UK Sepsis That. Any copies of this document hald outside of that area. In whatever format (e.g., paper.	The UK Sepsis That registered charity number (England & Whiles) 1158943 (Scotland) 5C080277. Company registration number 8644039. Sepsis Enterprises Life. Company number 9893333.





MOEWS - Modified Obstetric Early Warning Score

Appendix 6 (must always be the last appendix)

Maintain a record of the document history, reviews and key changes made (including versions and dates)

Version	Date	Comments	Author

Review Process Prior to Ratification:

Name of Group/Department/Committee	Date
Reviewed by Maternity Guideline Group	
Reviewed at Women's Business and Governance meeting	
Approved by CBU 3 Overarching Governance Meeting	
Approved at Trust Clinical Guidelines Group	
Approved at Medicines Management Committee (if document relates to medicines)	N/A





Approved Documents (policies, clinical guidelines and procedures)

Approval Form

Please complete the following information and attach to your document when submitting a policy, clinical guideline or procedure for approval.

Document type (policy, clinical guideline or procedure)	Guideline
-	Guideline for the use of the Modified Obstetric Early
	Warning Scoring (MOEWS) system
Document title	And for the Care of Women with Sepsis in
	Pregnancy and the Postnatal Period
Document author	Obstetric Registrar
(Job title and team)	
New or reviewed document	Reviewed
List staff groups/departments consulted	Obstetrics
with during document development	Midwifery
Approval recommended by (meeting and dates):	CBU3 overarching governance meeting 22/02/2023
Date of next review (maximum 3 years)	22/02/2026
•	Observation
	Scoring
	Infection
Key words for search criteria on	Unwell
intranet (max 10 words)	Escalation
	MEOWS
	Deterioration
Key messages for staff (consider	
changes from previous versions and	
any impact on patient safety)	
I confirm that this is the FINAL version	Name: Jade Carritt
of this document	Designation: Governance Midwife

FOR COMPLETION BY THE CLINICAL GOVERNANCE TEAM

Approved by (group/committee): CBU3 Overarching Governance meeting

Date approved: 22/02/2023

Date Clinical Governance Administrator informed of approval: 23/02/2023

Date uploaded to Trust Approved Documents page: 27/02/2023