

Facility:



ADULT SEPSIS PATHWAY

FAMILY NAME		MRN
GIVEN NAME		<input type="checkbox"/> MALE <input type="checkbox"/> FEMALE
D.O.B. ____/____/____	M.O.	
ADDRESS		
LOCATION / WARD		
COMPLETE ALL DETAILS OR AFFIX PATIENT LABEL HERE		

SEPSIS MANAGEMENT PLAN

Patients with presumed sepsis are at a high risk of deterioration despite initial resuscitation with intravenous antibiotics and fluids. These patients require a management plan which needs to be discussed with the Attending Medical Officer (AMO). The Infectious Diseases Physician/Clinical Microbiologist and Antimicrobial Stewardship (AMS) team are to be consulted where necessary. This plan needs to be communicated to the Senior Medical Officer, Nurse in Charge, patient and patient's family.

Specific management plans are to be documented in the health care record

Initial 24 hours	Continue monitoring	<ul style="list-style-type: none"> Prescribe the frequency of observations Minimum recommendation every 30 minutes for 2 hours, then hourly for 4 hours Monitor and reassess for signs of deterioration which may include one or more of the following: <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> Respiratory rate in the Red or Yellow Zone Systolic blood pressure < 100mmHg Decreased or no improvement in level of consciousness Urine output less than 0.5mL/kg/hr No improvement in serum lactate level </div> <p>If deteriorating (has any Red or Yellow Zone criteria), escalate as per local CERS and inform AMO</p>	<input type="checkbox"/>
	Repeat lactate 4 and 8 hours post recognition	4 hours Date: ____/____/____ Time: ____:____ Result ____ . ____ mmol/L 8 hours Date: ____/____/____ Time: ____:____ Result ____ . ____ mmol/L	<input type="checkbox"/>
	Fluid resuscitation	<ul style="list-style-type: none"> Prescribe IV fluids as appropriate based on the patient's condition <i>Monitor for signs of pulmonary oedema</i> 	<input type="checkbox"/>
	Reassess	<ul style="list-style-type: none"> Confirm diagnosis and consider other causes of deterioration Check preliminary results <i>If patient is neutropenic, review antibiotics and change if required</i> 	<input type="checkbox"/>
24 - 48 hours	Review treatment/management	<ul style="list-style-type: none"> Discuss with AMO Document plan to continue, change or cease antibiotics Continue monitoring for deterioration including urine output If the patient's recovery is uncertain discuss the goals of care with the patient and their family 	<input type="checkbox"/>
	Reassess	<ul style="list-style-type: none"> Actively seek microbiology/investigation results and review Confirm diagnosis, document source of sepsis in the health care record Discuss with AMO Consider seeking advice from infectious disease/microbiology physician Document plan to continue, change or cease antibiotics Obtain AMS approval for restricted antibiotics Repeat biochemistry as indicated Continue monitoring for deterioration including urine output 	<input type="checkbox"/>

Continue to monitor as per patient's condition – observations, medical review, antibiotics

Holes Punched as per AS2828.1: 2012
BINDING MARGIN - NO WRITING



SMR060400

Adult sepsis pathway for use in all emergency departments and inpatient wards
Use relevant febrile neutropenia guidelines if the patient has haematology/oncology diagnosis
Use relevant nephrology guidelines for renal dialysis patients

ARE YOU CONCERNED THAT YOUR PATIENT COULD HAVE SEPSIS?
Consider the following risk factors

<input type="checkbox"/> Re-presentation within 48 hours	<input type="checkbox"/> Immunocompromised
<input type="checkbox"/> Recent surgery or wound	<input type="checkbox"/> Age > 65 years
<input type="checkbox"/> Indwelling medical device	<input type="checkbox"/> Fall

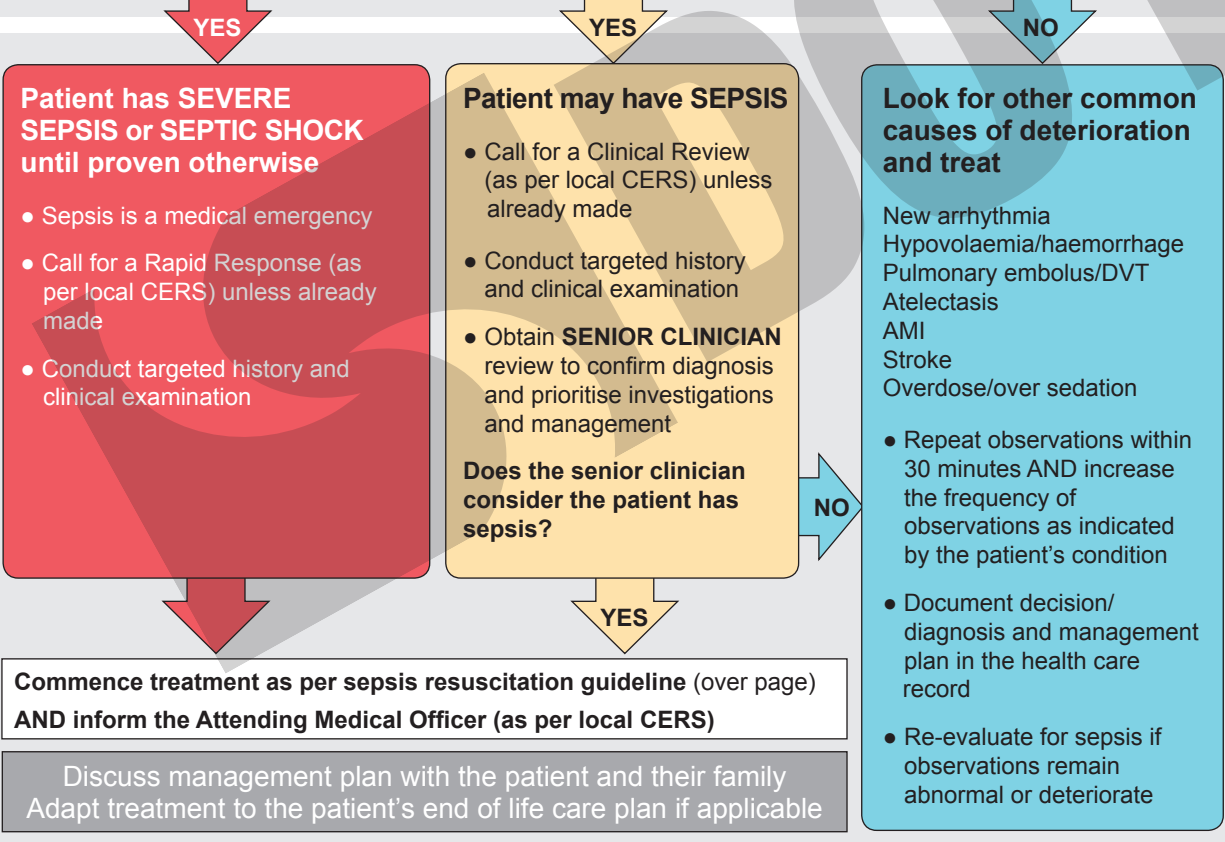
Absence of risk factors does not exclude sepsis as a cause of deterioration

Does your patient have any new onset of the following signs and symptoms of infection?

<input type="checkbox"/> Fever or rigors	<input type="checkbox"/> Line associated infection/redness/swelling/pain
<input type="checkbox"/> Dysuria/frequency	<input type="checkbox"/> Abdominal pain/distension/peritonism
<input type="checkbox"/> Cough/sputum/breathlessness	<input type="checkbox"/> Altered cognition

PLUS

<p>Any RED ZONE observation OR additional criteria</p> <ul style="list-style-type: none"> SBP < 90mmHg Lactate ≥ 4mmol/L Base excess < -5.0 	<p>TWO or more YELLOW ZONE observations OR additional criteria including clinician concern</p> <ul style="list-style-type: none"> Respirations ≤ 10 or ≥ 25 per minute SpO₂ < 95% SBP < 100mmHg Heart rate ≤ 50 or ≥ 120 per minute Altered LOC or new onset of confusion Temperature < 35.5°C or > 38.5°C <p>Obtain a blood gas</p> <ul style="list-style-type: none"> Lactate ≥ 2mmol/L is significant in sepsis
---	--



ADULT SEPSIS PATHWAY

SMR060.400

RECOGNISE

RESPOND & ESCALATE

FAMILY NAME		MRN
GIVEN NAME		<input type="checkbox"/> MALE <input type="checkbox"/> FEMALE
D.O.B. ____/____/____	M.O.	
ADDRESS		
LOCATION / WARD		
COMPLETE ALL DETAILS OR AFFIX PATIENT LABEL HERE		

Facility:

ADULT SEPSIS PATHWAY
RECOGNISE · RESUSCITATE · REFER

Sepsis recognition Date: ____/____/____ Time: ____:____

Emergency Department Patient Triage category 1 2 3 4 5

Inpatient Ward: _____

Clinical Review **Rapid Response**

RESUSCITATE

A Airway - Assess and maintain patent airway

B Breathing - Assess and administer oxygen if required; aim SpO₂ ≥ 95% (or 88-92% for COPD)

C Circulation - Vascular access, blood/culture collection, fluid resuscitation and antibiotics
Consider intraosseous access after two failed attempts at cannulation

Collect Blood Cultures Yes Not obtained
Take two (2) sets from two (2) separate sites

For patients with a central venous access device (CVAD), take one set from the CVAD plus one set peripherally

Collect Lactate Yes Not obtained
Lactate ≥ 2mmol/L after adequate fluid resuscitation is significant
Lactate: _____ mmol/L

Collect FBC, EUC, CRP/PCT, LFTs, coags and glucose Yes Not obtained
BGL > 7.7mmol/L in the absence of diabetes may be significant
BGL: _____ mmol/L

Order and collect other investigations and cultures prior to antibiotics (unless a **SENIOR CLINICIAN** assesses that this would result in an unacceptable delay in commencing antibiotic therapy)
Eg. Urine, cerebrospinal fluid, wound swab, joint or organ space aspirate

Document investigations and cultures collected:

Fluid Resuscitation (intravenous or intraosseous)

- Use crystalloid
- Aim Systolic Blood Pressure > 100mmHg
- Monitor for signs of pulmonary oedema and review at risk patients more frequently

Emergency Department patient
Give initial 20mL/kg bolus STAT, if no response repeat 20mL/kg STAT

Inpatient
Initial 250-500mL bolus STAT, if no response repeat 250-500mL STAT

If no response in SBP after 1000mL call a Rapid Response

Consider commencement of vasopressors

RESUSCITATE

C

Antibiotics First/new antibiotic administered Date: ____/____/____ Time: ____:____

Blood cultures (at least two sets) and other relevant cultures should be collected **PRIOR** to antibiotic administration. However in patients with severe sepsis or septic shock, if difficult to obtain cultures do not delay administration of antibiotic(s). Refer to local Antimicrobial Stewardship policies/procedures regarding antibiotic instructions.
Consult Infectious Diseases Physician or Clinical Microbiologist if required.

Severe sepsis or septic shock → Use CEC Adult Antibiotic Guideline for Severe Sepsis & Septic Shock or locally endorsed antibiotic prescribing guideline. Prescribe and administer antibiotics **within 60 MINUTES** of sepsis recognition

Sepsis → Use locally endorsed antibiotic prescribing guideline. Prescribe and administer antibiotics promptly in a timeframe directed by senior clinician (must be within 2 hours)

D Disability - Assess level of consciousness (LOC) using Alert, Voice, Pain, Unresponsive (AVPU)

E Exposure - Re-examine the patient for other potential sources of infection to guide further investigations

F Fluid - Monitor/document strict fluid input/output and consider IDC (if not already inserted)

G Check Blood Glucose Level - Manage as per local guidelines

Monitor and Reassess

Continue monitoring, assess for signs of deterioration and escalate as per local CERS

- Respiratory rate in the Red or Yellow Zone
- SBP < 100mmHg
- Decreased or no improvement in level of consciousness
- Urine output < 0.5mL/kg/hour
- Serum lactate level of ≥ 2mmol/L (or increasing) or no improvement after adequate fluid resuscitation may be indicative of septic shock
- Consider other causes of deterioration

REFER

If no improvement Intensive Care may be required

Update the Attending Medical Officer on the patient's condition using ISBAR

Discuss the management plan with the patient and their family/carers

Sepsis management plan documented by a medical officer in the health care record as per page 4 (over)

Name: _____ Designation: _____ Signature: _____

SMR060400

Holes Punched as per AS2828.1: 2012
BINDING MARGIN - NO WRITING

NH700066 050816