

Veterinary Sepsis Care Bundle

For use with patients receiving treatment in the Intensive Care Unit

SIRS Criteria

If your patient presents as below:

	Dogs – 2 or more	Cats – 3 or more
Temperature (Celsius)	<37.2 >39.4	<37.2 >39.4
Heart Rate (bpm)	>120	<140 >220
Respiratory Rate (rpm)	>24	>40
White Blood Cell Count (x103); (% of bands)	<6 >16 10% bands	<6 >20

(Hauptman et al, 1997)

Sepsis Criteria

Do they have a cause for infection?

Possible Site of Infection:		
Intravenous Catheter	Arterial Catheter	Urinary Catheter
Chest Drain/Pleural Fluid	Traumatic Wounds	Wound drains/Abdo fluid
Surgical Wounds	Purulent Vaginal Discharge/Uterine fluid	Respiratory signs consistent with pneumonia/Other

NO? Symptomatic treatment and re-assesses. Sepsis is still a concern.

Yes? Perform blood pressure check and blood gas sample (clinician consent required)

NIBP Systolic <80mmHg >160mmHg	Lactate >2.0mmol/L
Urine Output <0.5ml/kg/hour	SP02 <95%
Increase in renal/hepatic values	Immunocompromised
Glucose <3mmol/L >7mmol/L (non-diabetic)	

NO

YES

Treat for Sepsis

- Contact clinician on case
- Clinician to assess requirement for fluid analysis/blood cultures
 - Start antibiotics
 - Start IVFT
- Monitor fluid intake/output
- Oxygen— assess method of delivery
- Consider if surgery required?

Treat for Severe Sepsis/Septic Shock

- Antibiosis after relevant fluid analysis/blood cultures
- Hypotension – not responsive to fluid resuscitation – start vasopressors
- Coagulation profile – treat as necc
 - Oxygen Therapy
 - Consider if surgery required?
- Monitor for signs of Multiple Organ Dysfunction Syndrome (MODS) and Multiple Organ Failure (MOF)

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Adapted from Surviving Sepsis Campaign Sepsis 6