

SAQ 4

A 72 year old diabetic female is brought to your Emergency Department by ambulance. She complains of feeling generally unwell for the last 2 days with abdominal pain, cough and fevers.

Vitals signs:	Pulse	121
	BP	89/58
	RR	28
	Sats	89% Room Air
	Temp	39.8 °C

a. List the key steps in this patient's management? (3 Marks)

Resuscitation - 1/2 Mark

Screening / diagnosis e.g. blood cultures / biochemistry etc. - 1/2 Mark

Antibiotics - broad spectrum cover required - 1 Mark

1/2 Mark each for any two of:

Source Control

Monitoring

Disposition

Boundary of Care

b. List your resuscitation goals for the first 6 hours? (4 Marks)

1 Mark each up to 4 marks from:

CVP 8-12 mmHg

MAP >65 mmHg

Urine output >0.5ml/kg/hr

Central venous sats >70% or mixed venous sats >65%

Lactate clearance

c. The patient requires inotropic haemodynamic support. Which inotrope should be used? (1 Mark)

Noradrenaline - 1 Mark

d. The patient is intubated for respiratory failure. List the four key components of your ventilation strategy for this patient ? (2 Marks)

1/2 Mark for each of :

Tidal volume 6ml/kg

Plateau pressure <30 cm H₂O

PEEP Titrated to FiO₂ Minimum 5 cm H₂O - Maximum 24 cm H₂O

FiO₂ Titrated to Sats 88-95% or PaO₂ 55-80 mmHg

Answers taken from Surviving Sepsis Campaign International Guideline for Management of Severe Sepsis and Septic Shock 2012 and ARDSnet NIH NHLBI ARDS Clinical Network Mechanical Ventilation Protocol Summary