EXAMPLES – FELLOWSHIP EXAMINATION SHORT ANSWER QUESTIONS (SAQ)

The following SAQ example questions are provided for the Fellowship Exam (Written).

SAQ Example 1

A three year old child presents with their parents who are concerned that she has aspirated a toy. The child is not distressed.

Vitas si	gns are:		
	P BP SaO ₂ Temperature	100 95/70 98 37.3	Beats/min (regular) mmHg % on air °C
i. 1.	body?		ations for bronchoscopy in a child with a possible inhaled foreign
 3. 			
	=		hing or persistent cough post choke, unilateral wheeze or expiration on X-Ray.
ii.	In acute total u sequential orde		ay obstruction in a child, list the four (4) initial treatment steps in
1.			
2.			
3.			
4.			

<u>Answer</u>: BLS with back blows and chest thrusts, attempted ventilation with BVM, direct visualization possibly attempted removal, ETT to advance obstruction.

iii.	What three (3) features in history are most relevant when assessing a child for possible foreign body aspiration?
1.	
2.	
3.	

<u>Answer</u>: age, opportunity, cough/choking, sudden onset, no prodrome.

You are the duty consultant in a northern Australian emergency department during the summer months. You receive a thirty-five year old female surfer that has been being "dragged" from the water and brought in by car. She is extremely distressed by leg pain.

Vital signs are:

Р	140	Beats/min (regular)
BP	150/90	mmHg
RR	26	/min
SaO ₂	92	% on air
GCS	15	

A photo of her right leg is shown.



i.	What is your initial interpretation of the wounds?
	er: Extensive Chironex fleckeri (Box jelly fish) stings to the leg with potential for systemic omation.
ii.	List three (3) possible causes of her hypoxia.
1.	
2.	
3.	
	er: Possible near drowning, pulmonary edema post envenomation, chest injury sustained in the > contusion/PTx, (medical cause such as asthma).
iii.	What is the recommended initial treatment of the local leg injury?
	er: Vinegar should be liberally applied if not already done so. Analgesia: IV narcotic, large doses required. Remove tentacles with gloves if any remain attached.
iv.	What would be the two (2) indications for anti-venom in this case?
1.	
2.	

Answer: If patient develops cardiovascular instability/cardiac arrest (usually occurs soon after sting). Ongoing severe local pain not controlled by IV narcotics.

2

3

A member of the police force presents to your urban district hospital emergency department after being stabbed in the shoulder with a freshly used hypodermic needle whilst working. Assessment of the patient shows no acute wound repair is needed.

i.		nat is the approximate relative risk in this setti lowing:	ng of the infection transmission of the
HIV			
HCV	·		
HBV	, 		
 ii. 1.	Lis	t four (4) key issues that should be addressed	n the assessment of this patient.
2.			
3.			
1.			
	confide	r: Patient anxiety, infection counselling, followentiality. t three (3) blood tests that are essential to aid	
		Blood Test	Clinical Meaning
	1		

iv.	What four (4) specific discharge counselling topics should be provided to this patient?
1	
2.	
_	
3	
4	
	nswer: Follow up results, further serological testing, referral to appropriate services, explanation of fection risk in layman's terms.
٧.	What are three (3) ethical and legal principles involved when giving discharge counselling?
1	
2	
3	
Ar	nswer: Confidential labelling of specimens, notification of appropriate work authorities, work cover

certificate.

A 38 year old man walks up to the triage desk. He is agitated, shouting and uncooperative with simple instructions He is poorly kempt, clammy and tremulous.

i. List five (5) differential diagnostic categories you would consider when trying to assess this man? Give two (2) examples from each category.

	Category	Example
1		1.
		2.
2		1.
		2.
3		1.
		2.
4		1.
		2.
5		1.
		2.

Answer:

Trauma	1. Major visceral injury with blood loss
	2. Head injury (bleed, concussion)
Toxidrome	1. Amphetamines, opiates, cannabis, usual antipsychotic medication e.g. Lithium
	2. Alcohol, serotonin syndrome
Acute withdrawal	1. Alcohol, cannabis
	2. Opioids
Electrolyte disorder	1. Hypo/hyperglycemia
	2. Hyponatremia, hypercalcemia
Environmental	1. Snake bite
	2. Red back spider bite
Psychiatric	1. Schizophrenia
	2. Acute mania
Endocrine	1. Hyperthyroidism
	2. Adrenal crisis
Sepsis	1. CNS
	2. Infective endocarditis
Post-ictal	1. Known epilepsy, related to causes above
	2. Withdrawal seizure

	II.	Briefly describe two (2) different strategies for gaining the cooperation of this man.
1.		
2.	_	
Answ	Fiv	ve person physical restraint nemical restraint: benzodiazepine, butyrophenone, phenothiazine
	iii.	List the legal principles that guide your management.

Answer: Competence, informed consent.

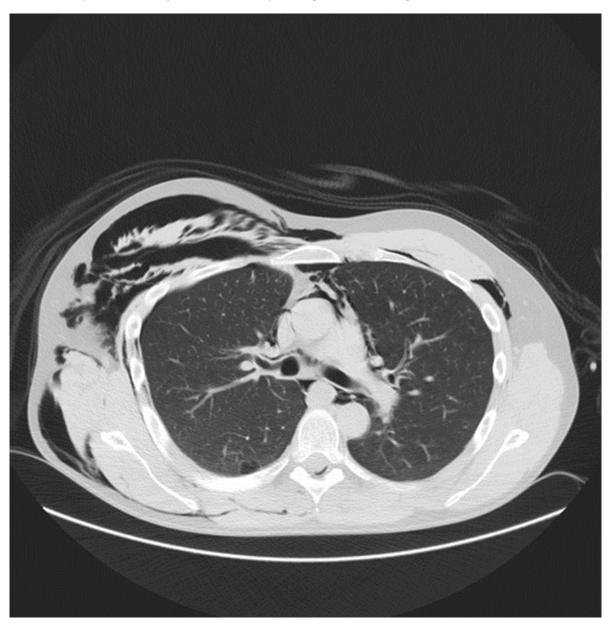
A 28 year old male presents to ED after being involved in a high speed MVC. He was the driver, restrained, deployed airbag, required extrication. On arrival he is short of breath and complaining of right sided chest pain.

Vital signs are:

 SaO_2 95 % On 5L/min by Hudson mask P 105 Sinus tachycardia BP 110/70 Afebrile

He has no significant past history and is on no medication.

A CT chest is performed as part of his workup. A single axial slice is given.



Fiv	ve (5) positive findings
	right and left chest wall surgical emphysema; Epidural air; Pnemo-mediastinum; Right umothorax; Small emphysematous bleb posteriorly
	vo (2) negative findings
	n; No chest tube; No haemothorax
ii.	List three (3) potential complications of these changes.
	neumothorax; Air embolism, stroke; Airway compromise from tracking to larynx/pharericardium progressing to cardiac tamponade
iii.	List three (3) options for the treatment of the changes shown.

Give an interpretation of the image providing;

i.

Conservative: repeat CXR in 24 hours specifically looking for increase in pneumothorax size with view to ICC; Small lumen right sided catheter inserted using Seldinger technique for drainage of pneumothorax; Small bore ICC inserted using Seldinger technique; Small bore ICC inserted using incision/surgical technique; Large bore ICC specifically to treat pneumothorax and possible haemothorax; Catheters on Heimlich valve/UWSD +/- suction.

A 60 year old man presents with a painful left hand. You note some increased heat, redness and swelling. An X-Ray is done and reproduced here.



Fract	ure base middle phalanx ri	cation ring finger; Healed fracture shaft distal phalanx little ng finger; Fused PIP joints middle and index fingers; Sub-per ?Metallic foreign body PIP joint middle finger	
ii.	Give three (3) aetiologie	es for this appearance.	
Traur	ma; Osteomyelitis; Necrotis	sing fasciitis; Charcot joint/joints; Infected wound/foreign bo	ody
iii.	Outline five (5) key feat	ures of his treatment and discharge planning.	

Specific: IV antibiotic – broad spectrum i.e. Tazobactam; IV normal saline if likely necrotising fasciitis; Surgical referral – general/orthopaedic for possible OT treatment; Euglycemic treatment; (+/- HBO); Reduction of acute dislocation/fractures under ring block

A 48 year old male self presents to the emergency department.

He is complaining of severe, heavy central chest pain with sweating, nausea and shortness of breath. The pain has been present for one hour.

You work in an emergency department that is 65 minutes from interventional services.

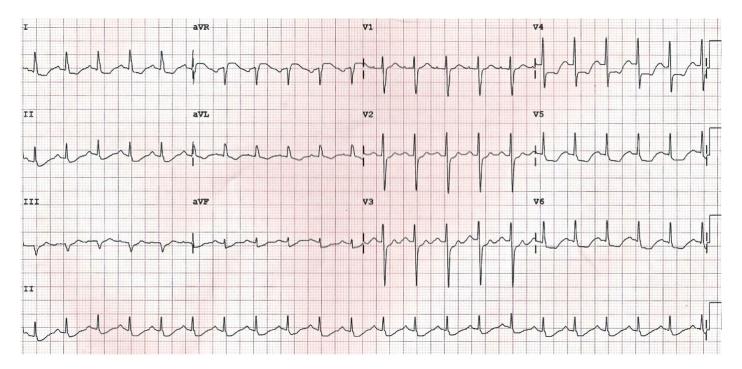
Initial vital signs are:

BP 95/55

P 125 Regular

SaO₂ 92 % On 6L via Hudson mask

His ECG on arrival is below.



Critica	I LAD STEMI; Widespread anterior ST depression; Sinus tachycardia
ii.	List five (5) drugs with doses needed within the first hour of arrival to emergency department.
As	tygen: titrated to keep SaO2 > 95% pirin: 300mg orally stat 'N: 1-2 sprays sublingual, patch, infusion (50mg in 100mg normal saline titrated to pain a
BP 11) a111b inhibitor: clopidogrel 600mg orally stat, prasugrel 60mg orally stat, ticagrelor 180ı
He	ally stat eparin versus clexane: heparin 5000 iu stat IV, clexane 1mg/kg s/c stat orphine/fentanyl: morphine 0.1mg/kg titrated to effect IV, fentanyl 1µg/kg IV or intranas
An Th	rated to effect iti-emetic: maxolon 10mg IV, ondansetron 4mg s/l rombolysis: tenectaplase dose adjusted to weight
iii.	Outline four (4) factors that will determine definitive treatment of this patient.

- Non PCI centre and delayed transport: thrombolysis within 30 mins of making decision
- Time to reaching cath lab optimal less than 90 mins if large area at risk but acceptable up to
- Successful thrombolysis to angiography less than 24 hours

i.

A 40 year old man is brought to the emergency department after taking an overdose of prescribed medication.

i.	List seven (7) features on history that indicate a heightened risk for completed suicide

- A Age: 1 if < 20 or > 44
- D Depression: 1 if depression is present
- P Previous attempt: 1 if present
- E –Ethanol abuse: 1 if present
- R Rational thinking loss: 1 if present
- S Social Supports Lacking: 1 if present
- - Organized Plan: 1 if plan is made and lethal
- N No Spouse: 1 if divorced, widowed, separated, or single
- S Sickness: 1 if chronic, debilitating, and severe

ii. Provide a list of investigations which would be completed prior to referral to the psychiatric services including three (3) mandatory tests and four (4) optional tests determined by the details on assessment. Include detail on how the investigations will aid assessment.

	Test	How test will aid assessment
Mandatory test 1	Glucometer	?oral hypoglycaemic ingestion
Mandatory test 2	ECG	Features of sodium channel blockade, TCA ingestion, Beta blocker/CCB ingestion, K high or low
Mandatory test 3	Serum paracetamol	'Silent' toxicity
Optional test 1	LFT's	If unknown time of ingestion, ALT can guide risk of delayed presentation of paracetamol ingestion,
Optional test 2	Other serum drug level	Anti-epileptics, digoxin, lithium
Optional test 3	CXR	Features of aspiration pneumonitis
Optional test 4	Renal function	Baseline for risk of poor clearance (cf Lithium), monitoring for drugs causing ARF
	Breath/blood alcohol level	Impact on conscious level, time before 'medically cleared'
	INR/coags	Warfarin overdose, NOAC ingestion
	ABG/VBG	Monitor pH when treating sodium channel blockers

iii. List two (2) absolute and two (2) relative indications for admission.

· · · · · · · · · · · · · · · · · · ·	sons scale or similar scoring system	
Requiring ongoing trea	tment for ingestion i.e. NAC, dialysis, ICU monitoring	g/care
ative indications		
ve indications		

• Poor social situation

Absolute indications

- Potential for delayed onset toxicity
- Stabilisation of underlying medical condition

A 34 year old G7P6 30/40 pregnant woman arrives in your emergency department in labour.

i. Complete the following table indicating the likely need for neonatal resuscitation if she delivers. Give four (4) features in each column.

	Maternal	Foetal	Intrapartum
1	PROM	Multiple gestation	Foetal distress
2	Antepartum haemorrhage	Post-term	Abnormal presentation
3	Hypertension/eclampsia	Pre-term	Precipitate labour
4	Diabetes mellitus	Intra-uterine growth retardation	Prolonged labour
	Substance abuse	Polyhydramnios	Thick staining of amniotic fluid
	Maternal infection or chronic illness	Congenital abnormalities	Instrumental delivery
	Absence of antenatal care		LSCS

C	blour	
	one	
	eart rate	
	espiratory effort	
	eflex irritability	
iii.	List five (5) specific treatments (with doses as appropriate) that may be required first ten minutes of delivery	red wit
iii.	List five (5) specific treatments (with doses as appropriate) that may be require first ten minutes of delivery.	red wit
iii.		red wit
iii.		red wit
iii.		red wit
		red wit
	first ten minutes of delivery.	red wit
•	first ten minutes of delivery. Cpap ventilation/intubation	red wit
•	first ten minutes of delivery. Cpap ventilation/intubation Warming (drying, cling film wrap, beanie, radiant heater). Aim for normothermia	red wit
•	first ten minutes of delivery. Cpap ventilation/intubation	red wit

• Dextrose (5mg/kg 10% dextrose IV)