

# Illawarra Shoalhaven Local Health District Emergency Medicine Fellowship Program



## Topic-Based Quiz: Qs and As Head & Neck incl. Eyes

### Candidate Instructions

- Duration = 30min
- Props are included within the examination booklets
- Allocated marks for each question are shown
- Each mark is of equal weight
- There is no negative marking
- Write answers CLEARLY, and cross out any errors
- Answer within space provided
- Do not begin until instructed
- You may take examination book home with you



Good Luck!

Acknowledgement: Thank you to the trainees who have written these SAQs with the hope of making their colleagues sweat, but ultimately gain more exposure to exam practice. Good job.

**Question 1 (7 marks)**

A 10 year old girl is brought to the emergency department vomiting blood. Had a 150ml vomit in ambulance en route to emergency and had a tonsillectomy done privately 9 days ago.

On arrival she is able to talk, looks pale, and vital observations are:

HR 110/min

BP 90/60

SaO2 98% (room air)

RR 28/min

Temp 37

Classify post-tonsillectomy bleeding, and list one possible aetiology for each (2 marks)

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These patients rarely require intubation in the ED, however if RSI is performed, how would you modify your standard RSI in this setting? (3 marks)

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You can still see ongoing slow bleeding in the tonsillar bed

Describe 2 further management options with drugs and doses + route if applicable (2 marks)

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**Question 2**

A 35 year old man presents with 5 days of sore throat and painful swallowing. He has seen his GP 2 days ago who commenced him on oral amoxicillin. His symptoms have been worsening. You examine his throat and see the following:



Describe 3 important findings in the above picture (3 marks)

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What is the most likely diagnosis (1 mark)

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Describe 3 other signs/symptoms which will support above diagnosis (3 marks)

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List 3 differential diagnoses for the above described clinical picture (3 marks)

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Describe in steps how to drain a peritonsillar abscess (4 marks)

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**Question 3**

A 4 year old boy is brought in by his mother with fever for 2 days, vomiting, complaining of sore left ear. He is distressed and crying. His observations are as follows:

HR 140  
Temp: 39  
RR:30  
O2sats 97% RA

You believe he has acute otitis media

List 3 examination findings to support this diagnosis (3 marks)

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Available evidence suggests most children receive minimal benefit from antibiotic therapy in acute otitis media. Outline 3 'red flags' (excluding severity of infection) that would lower the threshold for antibiotic therapy in acute otitis media (3 marks)

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List 3 possible complications of acute Otitis Media (3 marks)

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**Question 4**

A 65 year old man presents with sudden onset decreased vision in his right eye, preceded by sensation of flashing light for few minutes.

List 5 causes of unilateral Painless vision loss (2.5 marks)

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What bedside findings would suggest retinal detachment (4 marks)

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List 2 risk factors for Retinal Detachment (2 marks)

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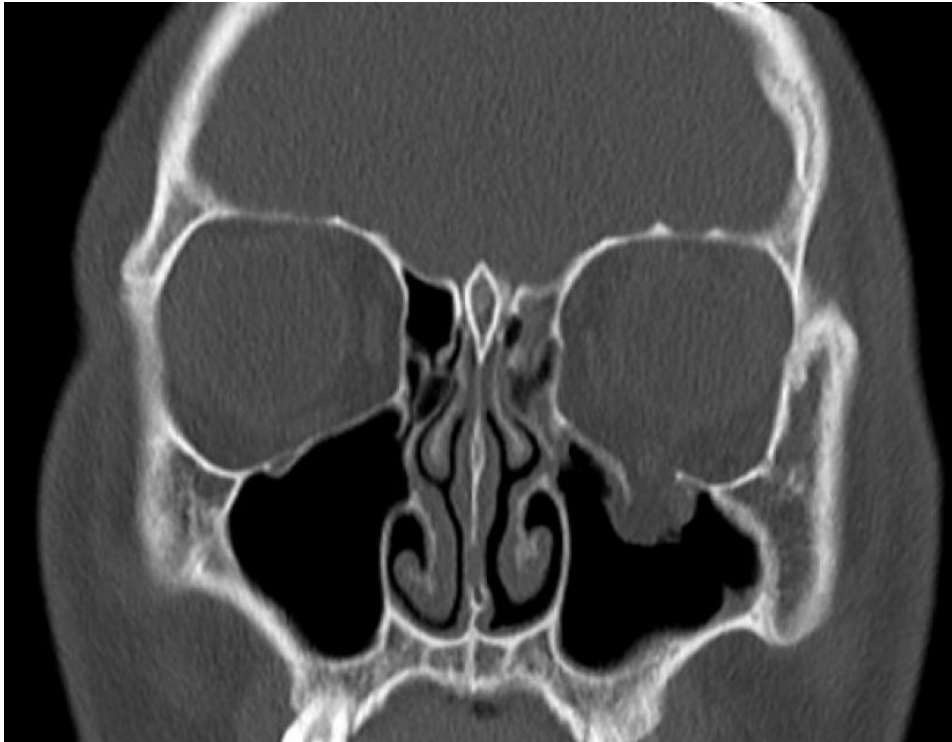
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**Question 5**

A 25 year old man presents with left facial swelling after being punched in the face. Your intern orders a CT of the facial bones with is available below



List 3 significant findings in the CT image above (3 marks)

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List 3 complications of this injury (3 marks)

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Outline management priorities for this patient (4 marks)

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## ANSWERS

### Question 1 (7 marks)

Classify post-tonsillectomy bleeding, and list one possible aetiology for each (2 marks)

- **Primary --- less than 24hours, failure of primary hemostasis/ slipped ligature**
- **Secondary-- >24 upto10days postop, breakdown of fibrin clot**

These patients rarely require intubation in the ED, however if RSI is performed, how would you modify your standard RSI in this setting? (3 marks)

- **Pre-oxygenate / induce sitting up**
  - **High flow nasal O2 likely best pre-oxygenation tool as allows spitting up blood**
- **Pre-load with volume, ideally O Neg blood**
- **Double suction, likely to require 'SALAD' - suction assisted laryngoscopy + airway decontamination**

You can still see ongoing slow bleeding in the tonsillar bed

Describe 2 further management options with drugs and doses + route if applicable (2 marks)

- **Direct pressure with adrenaline-soaked gauze**
- **Tranexamic acid IV 15mg/kg**
- **Definitive: Exploration in the operating theatre and diathermy/suturing**

### Question 2

Describe 3 important finding in the above picture (3 marks)

- **diffuse swelling in right side of oropharynx**
- **extending soft palate**
- **deviation of uvula to left**

What is the most likely diagnosis (1 mark)

- **Peritonsillar abscess/quinsy**

Describe 3 other signs/symptoms which will support above diagnosis (3 marks)

- **Trismus**
- **Muffled voice**
- **Drooling**
- **Tender cervical lymphadenopathy**

List 3 differential diagnoses for the above described clinical picture (3 marks)

- **Peritonsillar cellulitis**
- **Retropharyngeal abscess**
- **Infectious mononucleosis**
- **Neoplasm/ Lymphoma**
- **Foreign body**

Describe in steps how to drain a peritonsillar abscess

- **Topical local anaesthetic (cophenylcaine +/- nebulised lignocaine)**
- **18g needle with needle cap trimmed to 20mm**
- **Aspirate at point of maximal fluctuance**

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- If no aspirate, try 1cm above and below this point
- If still no aspirate, manage as peritonsillar cellulitis
  - Can consider scalpel I&D
  - Some recent evidence that drainage similar in outcome to Abs only

### Question 3

List 3 examination findings to support this diagnosis (3 marks)

- **Inflamed tympanic membrane**
- **Bulging tympanic membrane**
- **Perforated tympanic membrane**
- **Purulent discharge**
- **Lack of light reflection on TM**

Outline 3 'red flags' (excluding severity of infection) that would lower the threshold for antibiotic therapy in acute otitis media (3 marks)

- **AOM in only hearing ear (ie. Deaf in unaffected ear)**
- **Cochlear implant – usually IV Abs and D/W ENT**
- **Indigenous children**
- **Immunodeficiency**

List 3 possible complications of acute Otitis Media (3 marks)

- **Tympanic membrane perforation**
- **Acute Mastoiditis**
- **Chronic otitis media with effusion + associated hearing loss**
- **Meningitis/Intracranial abscess**
- **Facial nerve palsy**

### Question 4

List 5 causes of unilateral Painless vision loss (2.5 marks)

- **giant cell arteritis**
- **central or branch retinal artery occlusion**
- **retinal detachment**
- **central or branch retinal vein occlusion**
- **vitreous haemorrhage**

What bedside findings would suggest retinal detachment (4 marks)

- **Visual acuity reduced**
- **Visual field—unilateral visual field defect**
- **Pupils RAPD present**
- **Fundoscopy tear or bulging of retina, dark avascular area**
- **Bedside US showing retinal detachment**

List 2 risk factors for Retinal Detachment (2 marks)

- **Age > 50**
- **Previous retinal detachment in one eye**
- **Extreme myopia (nearsightedness)**
- **Family history of retinal detachment**

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- Previous eye surgery, such as cataract removal
- Previous severe eye injury
- Previous other eye disease or disorder

**Question 5**

List 3 significant findings in the CT image above (3 marks)

- Orbital floor fracture
- Protrusion of soft tissue through fracture, ?entrapment
- No air in the orbit

List 3 complications of this injury (3 marks)

- Muscle entrapment
- inferior orbital nerve entrapment/injury
- retro-orbital hematoma
- visual impairment
- infection/orbital cellulitis

Outline management priorities for this patient (4 marks)

- Analgesia – oral paracetamol / ibuprofen / oxycodone
- ADT + oral antibiotics (augmentin)
- Advise not to blow nose
- Maxillofacial Surg referral for ORIF