VAQ 2010.1.4 (Photo)

A 25 year old man has been brought in to your emergency department after sustaining a knife wound to his

neck in an assault. His vitals signs and GCS are normal.



- a. Describe his photograph (50%)
- b. List the likely associated injuries (50%)

This man has sustained a complex, deep left neck laceration which traverses zones II and III of the neck with the potential for involvement of multiple structures, particularly concerning for venous, arterial, airway or neurological injury. Although in the photograph he is pale suggesting blood loss, in the presence of normal vital signs this may not be the case.

Photograph

left side of neck comfortable looking patient from limited view no airway support ECG dots and dressings seen considerable local blood loss on dressings but no significant ongoing bleeding is visible blood splatter to face

Laceration to left side of neck

large zigzag or Y shape

from near tragus of ear to near midline at approximately level of hyoid (obscured by dressing) 'branch' extends toward point of chin

includes zones II, III; at least approaches junction of zones I and II widely gaping with deep tissue disruption no clearly identified structures in deep part of wound but significant depth in context of nearby vital structures

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Likely associated injuries
superficial structures closely related to course of laceration - high likelihood of involvement
       skin
       platysma
       sternocleidomastoid
       facial artery
       parotid gland
       trigeminal nerve
       facial nerve
adjacent structures of clinical concern
       vascular
              venous
                      internal jugular
                      external jugular
                      thyroid veins
              arterial
                      carotid artery
                      thyroid arteries
              nerves
                      recurrent laryngeal nerve
                      vagus nerve
                      sympathetic chain
       gastrointestinal
              oesophagus
       glandular
              parotid and duct
              thyroid
              parathyroid
              submandibular
       lymphatic
              local lymph nodes and drainage - various
       airway
              pharynx
              structures of larynx
              trachea
              thyroid cartilage
       potential spaces
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very deep structures (cervical vertebrae and spinal cord, cervical nerve roots) less likely to be involved

submental space