Anesthesia for healthy patient

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Case:3

A surgeon orthopedic His ,swelling with pain knee progressive had has man old-year-52 an as arthroscopy an recommended and ,meniscus torn a diagnosed tentatively has childhood typical the than other illnesses major no had has patient The .outpatient of history family a nor ,anesthetics or operations previous no had has He .diseases on diabetics ,smoke not does ,medications to allergies no has He .anesthesia with problems physical and results laboratory His . controlled is sugar blood medication oral he since drink or eat to nothing had has He .normal all were internist an by examination .night last bed to went

- What is ASA status?



American Society Anesthesia (ASA) classification system

ASA grade	<u>Definition</u>	<u>Example</u>
1	A patient normal healthy	
II	A patient with mild systemic disease	Well-controlled hypertension, asthma
III	A patient with severe systemic diseas	se Controlled CHF, stable angina
IV	A patient with severe systemic diseas	se Unstable angina, symptomatic COPD, symptomatic CHF that is a constant threat to life
V	A moribund patient who is not expec	hemodynamic survive without the operation
VI	A declared brain-dead patient whose organs are being removed for donor purposes	
"E" – added to the classifications indicates emergency surgery.		

According to the previous ASA classification table this patient in which grade:

•He is on grade 2 of ASA Classification.

How will you prepare a diabetic patient for surgery ?

•Determine the type of diabetes and its management .

it is important to confirm the form of diabetes present, as patients with type 1 diabetes must continue a basal rate insulin replacement preoperatively while patients on oral hypoglycemics should stop using them 1 day before surgery

- •Ensure that the patient's diabetes is well controlled .
- •Ensure that the patient is capable of managing their diabetes after discharge from hospital .
- Consider the presence of complications of diabetes that might be adversely affected by or that might adversely impact upon the outcome of the proposed procedure.

On examination, the patient weighs 75 Kg and is 182 Cm, in tall. His neck appears to be flexible and mobile. He opens his mouth without difficulty, and with his head extended and tongue protruding, his uvula is completely visible.

- Discuss the airway assessment for this patient?

History

- Past anesthetic history
- Surgery/radiotherapy to head and neck.
- Obstructive sleep apnea (OSA.(
- Conditions affecting tongue size (e.g. acromegaly, infections, tumors)
- Conditions affecting neck mobility (e.g. ankylosing spondylitis, infections, tumors.)
- Conditions affecting mouth opening (e.g. temporomandibular joint dysfunction .)

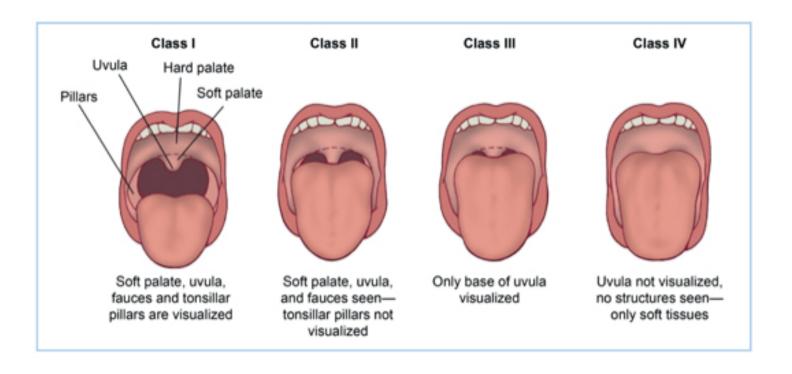
- Discuss the airway assessment for this patient?

LEMON criteria

- L Look externally
- E Examination
- M Mallampati
- O Obstruction
- N Neck mobility



- Mallampati Classification



- Discuss anesthesia plan for this patient

(1PreOperative Management:



(2Intra Operative Management:

before moving into the operating theatre

- •To establish IV access.
- •Apply monitors:
- .1ECG. pulse .2 .3 .oximeternon-invasive blood pressure.



At the OR

- Airway must be secured
- e.g. with an LMA or) .(endotracheal tube
- •Then further motoring/interventions are performed
-) e.g. nasogastric tube urinary catheter insertion occur, if indicated.

(3Post Operative Management:

End Of Operation

- •Extubated in the operating theatre (and an oropharyngeal airway inserted if needed.(
- •Transferred to the recovery room with an LMA still in situ.

All patients receive supplemental oxygen during transfer.

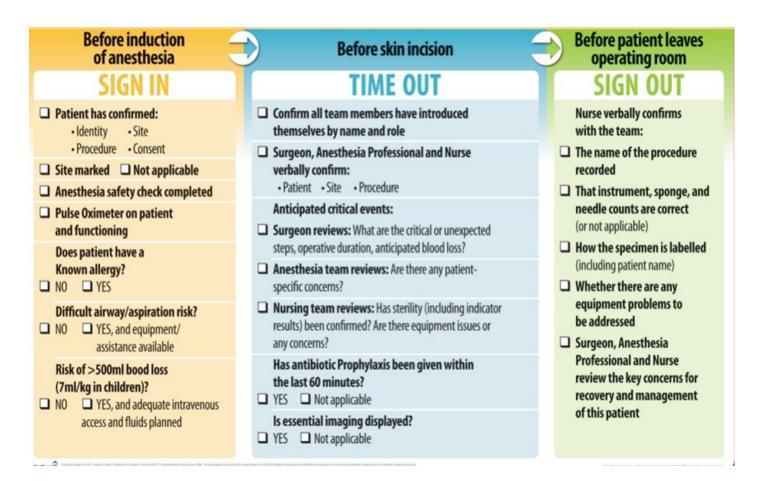
In Recovery Room

- .1patient's name and age. .2operation details. .3blood loss
- .4analgesia given .5antiemetics given .6Antibiotics
- .7thromboprophylaxis.

Leave Recovery Room?

- .1awake and in complete control of airway reflexes.
- .2pain free. .3no/minimal nausea and vomiting.
- .4no/minimal bleeding from surgical site..5normothermic.

What is the check list for sign in and time out?



- Discuss the safety features of anesthesia machine

- •Non-interchangeable screw threads (NISTs) prevent the incorrect .pipeline gas being connected to the machine inlet
- •A **pin index system** is used to prevent incorrect cylinder connection.
- •Pressure reducing **valves/regulators** and flow restrictors to prevent .barotrauma
- •The oxygen failure **warning alarm** is pressure driven and alerts of .imminent pipeline or cylinder failure
- •Interlocking vaporizers on the back bar prevent two anaesthetic vapours being given simultaneously



- Discuss the safety features of anesthesia machine

- •flow delivered through the anaesthetic machine is displayed by a **bobbin within a rotameter** to allow accurate gas delivery.
- •**Hypoxic guard:** the O2 and N2O control knobs are linked, preventing <25% O2 being delivered when N2O is used.
- •Emergency oxygen flush: when pressed, oxygen bypasses the back bar and is 35 < delivered to the CGO (common gas outlet) atL/min
- •Suction: generated suction is used to clear airway-pressure-adjustable negative secretions/vomit and must be available for all cases
- •Scavenged gases are usually vented to the atmosphere. Scavenging tubing has a 30) wider boremm), preventing accidental connection to breathing circuits.
- •Ventilator alarms warn of high and low pressure.





References:

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THANK YOU