*OSA, CSA &

- hypothyroidisim is related to OSA

- problem is in airflow not oxygenation, Jairflow > 102

STOPBANG

- ► STOP Questionnaire ► BANG
- Snoring
- BMI>35
- Tiredness Observed you
 - Age >50 Neck circumference >40 cm
- stop breathing (>15.7") Blood Pressure Gender male
- Sensitivity of STOPBANG score of 3 or more to detect moderate to severe OSA is 93% and severe OSA is 100%.
- NPP are 90% and 100%.
- 0-2: low risk for moderate to severe OSA 5-8: high risk for moderate to severe OSA
- 3-4 :Further criteria are required like if BMI is more than 35 then risk increases.

High risk: Yes to ≥3 items → Refer for sleep testing

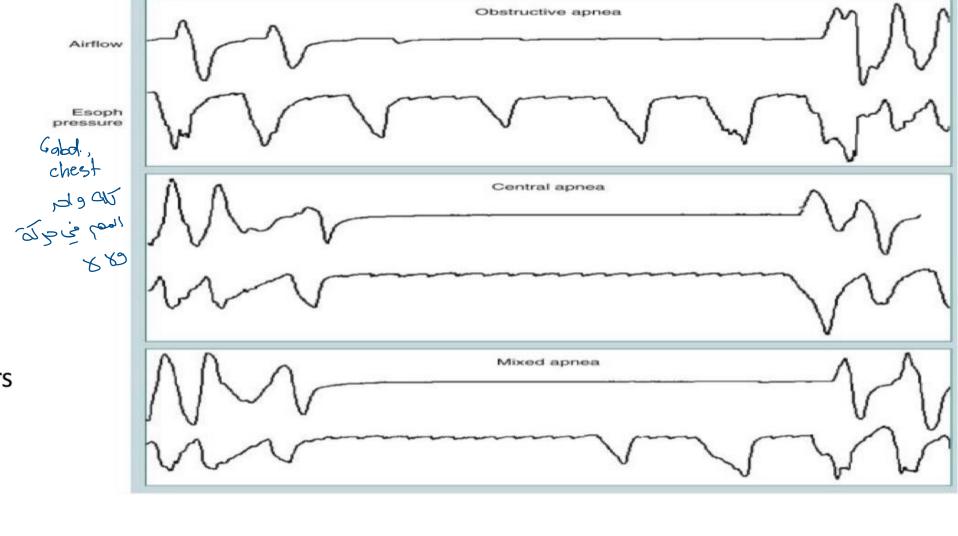
- Apnea: 90% or more reduction in airflow or complete cessation of air flow for 10 seconds.
 - Oxygen desaturation is not a criteria.
- Obstructive apnea: Apnea with evidence of continued respiratory effort i.e, Chest movement persists
- Central apnea: Apnea with absent respiratory effort .i.e, No chest movement.
- Mixed apnea: if inspiratory effort is absent at the beginning of the
- event but resumes in the second portion of the event.
- Hypopnea definition
- ↓ flow ≥ 30% from baseline for
- at least 10 seconds • 1A. (AASM) with 3% O₂ desaturation OR arousal
- ✓ Requires EEG monitoring • 1B. (CMS) with 4% O₂ desaturation.
- Respiratory Effort Related **Arousal (RERA)**
- Flattening of inspiratory portion of nasal pressure (or PAP flow) with increasing respiratory effort
- leading to arousal No associated desaturation
- ✓ Requires EEG monitoring

- No is the deepest stage of sleep

Apnea Hypopnea Index

- >AHI = (# apneas + # hypopneas) / sleep hours
 - AHI < 5: normal
 - AHI 5 15 :mild
 - AHI 15 –29 :moderate
 - AHI 30 or above : severe

> RDI = (# apneas + # hypopneas + # RERAs) / sleep hours related acousals



_ SPO2 _ OSA so decrease after event DCSA decrease during event

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Treatment

- Weight loss ,avoid sedatives and alcohol
- Stop smoking
- CPAP
- Surgery
- · Dental appliances smild to moderate only

Bt. reflected to clinic for evaluation of OHS, BMI is 30, Pacos 50 Definition of OHS - if mentioned he is smoker and one of choices is CFT to to exclude severe CAPP

- neurological assessment - only if there is findings in the greation, or the question well says there is no any neurological problem - inspect spine for deformities. The - if no COOD, no neurologic -> best next step -> sleep study

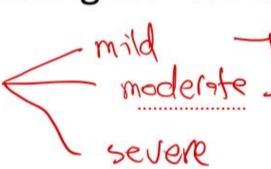
of obesity (body mass index ≥30 kg·m-2 **AND** daytime hypercapnia (arterial carbon dioxide tension ≥45 mmHg) occurring in the absence of an alternative neuromuscular, mechanical

Obesity hypoventilation syndrome (OHS) is defined as a combination

or metabolic explanation for hypoventilation. sleep aprise pais pais qo. 938 del

OHS with sleep hypoventilation - mainly during

- The American Academy of Sleep Medicine (AASM) has arbitrarily defined **sleep hypoventilation** in adults by the following criteria:
- PaCO2 >55 mmHg for >10 min or
- An increase in PaCO2 (or surrogate as end-tidal carbon dioxide) tension or TcCo2) >10 mmHg compared to an awake supine value to a value >50 mmHg for >10 min.



offs of with DSA moderate I should sheck if he has sleep hypoventilation

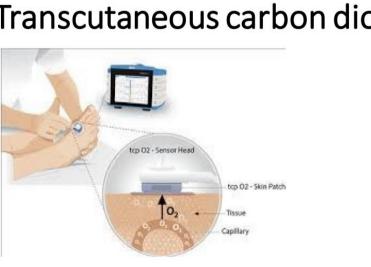
so for pt with offs I do sleep study for 2 reasons 8

severe

of check if he has osa

of check if there is hypoventilation during sleep inpired to the control of the contro

Transcutaneous carbon dioxide





Criteria for diagnosis

Room air arterial blood gas.

Supportive tests for diagnosis:

• Elevated serum bicarbonate levels >27 mmol/L....? Early stage . NPPV > الديث غامج سي لسا الديث جا Elevated serum bicarbonate levels >27 mmol/L....?

And hypoxaemia

bicarb Me Sin sie Mypoventilation essy stagrasiei elle ist

Obesity hypoventilation syndrome (OHS) management strategy.

