

## Sleep Apnea Assignment

### (Online Content 1H)

#### Unit Objectives:

- Understand the relationship(s) between obstructive sleep apnea and cardiovascular risk. (1,2,6,7)\*

***In order to receive full credit (1H class time) for this assignment, it must be completed in its entirety by 2/27/2025 at 0800. Any assignment not completed in its entirety will result in missed class time.***

You may have to copy and paste this link to your browser.

<https://link.springer.com/article/10.1186/s40248-019-0172-9>

Refer to the above article and fill in the blanks for the following questions. Submit to the Sleep Apnea Dropbox by 0800, 2/27/2025. If you are unable to ctrl/click to open the article, copy and paste the link in the address box.

1) What is obstructive sleep apnea (OSA) characterized by?

Obstructive sleep apnea is characterized by the collapse of the upper airways during sleep with ineffective respiratory efforts, intermittent hypoxia and sleep disruption.

2) How does the distribution of comorbidities differ between men and women?

The distribution of comorbidities differ between men and women because diabetes and ischemic heart disease are more prevalent in men with obstructive sleep apnea, and hypertension and depression are more prevalent in women with obstructive sleep apnea compared to non-obstructive sleep apnea subjects.

3) Name 10 common comorbidities often present in OSA patients.

- . Systemic hypertension
- . Coronary artery disease
- . arrhythmias
- . Ischemic stroke
- . COPD
- . Asthma
- . Diabetes mellitus
- . Dyslipidemia

- i. . Gout
- j. . Anxiety

- 4) The best studied cardiovascular comorbidity in OSA is \_\_\_\_\_ Systemic \_\_\_\_\_ hypertension\_\_\_\_\_.
- 5) What arrhythmia is especially prevalent in OSA patients? Atrial Fibrillation
- 6) Highly prevalent in OSA patients, the metabolic syndrome is a pre-diabetic state associated with \_\_\_\_\_ central \_\_\_\_\_ obesity\_\_\_\_\_ and \_\_\_\_\_ increased \_\_\_\_\_ cardiovascular \_\_\_\_\_ risk\_\_\_\_\_.
- 7) Untreated OSA in diabetic patients is associated with increased prevalence of \_\_\_\_\_ neuropathy\_\_\_\_\_, \_\_\_\_\_ peripheral \_\_\_\_\_ arterial \_\_\_\_\_ disease\_\_\_\_\_, \_\_\_\_\_ diabetic \_\_\_\_\_ retinopathy\_\_\_\_\_, and \_\_\_\_\_ diabetic \_\_\_\_\_ nephropathy\_\_\_\_\_.
- 8) The association between OSA and chronic obstructive pulmonary disease is known as what? Overlap syndrome
- 9) Sleep studies confirmed that OSA is \_\_\_\_\_ more \_\_\_\_\_ common\_\_\_\_\_ in asthmatics than in controls, and the combination of OSA and asthma had a higher frequency of \_\_\_\_\_ asthma \_\_\_\_\_ exacerbations\_\_\_\_\_.
- 10) Careful assessment of \_\_\_\_\_ comorbidities\_\_\_\_\_ should become standard clinical practice for OSA patients.