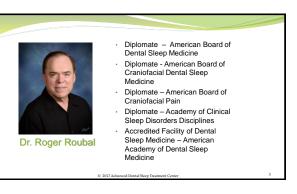
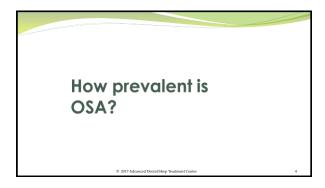
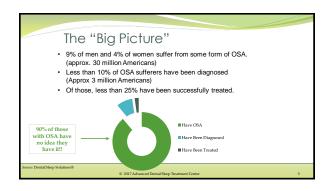
# Sleep Apnea: Prevalence & Treatment Options Presented by Roger W. Roubal, DDS

### Learning Objectives • How to screen for sleep apnea; questions to ask your patients • Industry treatment guidelines; when to consider an oral appliance vs. a CPAP • What goals/thresholds to set for successful treatment



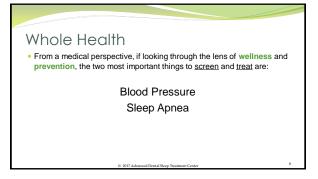




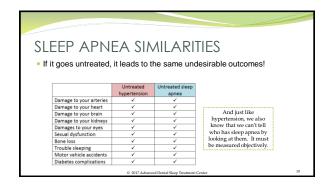


### Why is it so important to screen for OSA?

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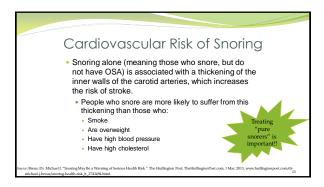


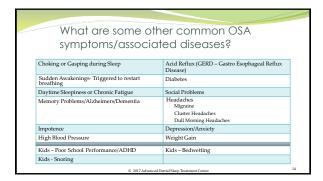
# BLOOD PRESSURE • It is measured at every office visit. Why?? • Because we all know that if it goes untreated, it leads to loads of undesirable outcomes! | Damage to your arteries | Damage to your beart | Variable | Damage to your widneys | Damage to your widneys | Variable | Damage to your widneys | Variable | Damage to your widneys | Variable | Variable



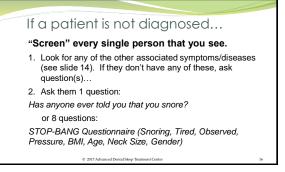
What signs/symptoms should I look for?







## Ways to Screen & Test 15



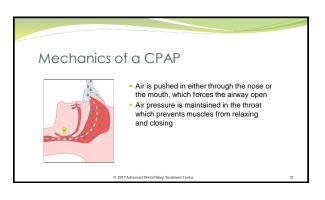
Send all "qualifiers" for a sleep test, not an oximetry

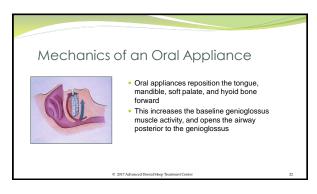
Any potential cost of over-testing for OSA will far be outweighed by the serious health conditions you will prevent!



### What are treatment options?







### Main Advantage of Each Non-Surgical Option CPAP Gold Standard / Treatment on Night 1 Oral Appliance Compliance Compliance Traditional Combination Therapy Lower machine pressure and more mask stability, which makes it easier to be compliant Tap Pap Less leakage, lower machine pressure, and patient can sleep in whatever position they want, which makes it easier to be compliant

What are the treatment guidelines regarding oral appliances?

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### Who should be considered for an oral appliance?

The American Academy of Sleep Medicine Clinical Guidelines (updated July 2015)

1. We recommend that sleep physicians prescribe oral appliances, rather than no therapy, for adult patients who request treatment of primary snoring (without obstructive sleep papea, ICSTADNARD)

2. When oral appliance therapy is prescribed by a sleep physician for an adult patient with obstructive sleep papea, we suggest that a qualified entire use a custom, tritatable appliance over non-custom oral devices. (GUIDELINE)

3. We recommend that sleep physicians consider prescription of oral appliances, rather than no treatment, for adult patients with obstructive sleep appea who are interfaced in CEPA therapy or prefer attentate therapy. (STANDARD) page in the control of the control o incidence. (GUIDELINE)

We suggest that sleep physicians conduct follow-up

b. We suggest that sleep physicians conduct follow-up sleep testing to improve or contirm treatment efficacy, rather than conduct follow-up without sleep testing, for patients fitted with oral appliances. GIUDELINE;
6. We suggest that sleep physicians and qualified dentists instruct adult patients treated with oral appliances for obstructive sleep appear to return for periodic office visits—as opposed to no follow-up—with a qualified dentist and a sleep physician. (GUIDELINE)

Ramar, Kannan, et al. "Clinical Practice Guideline for the Treatment of Obstructive Sleep Apnea and Snoring with Oral Appliance Therapy: An Update for 115." Journal of Clinical Sleep Medicine, 2015, dok10.5664/jcsm.4838.

### Research behind the Guidelines...

■46 to 83% of OSA patients are non-compliant with CPAP treatment.

□ A recent study shows that of those diagnosed and prescribed a CPAP, 58% were non-compliant. Of those 58%, only a third were referred to a specialist for other treatment.

Oral appliances are often preferred by patients, translating to greater

Health outcomes (e.g. reduction of AHI, physiological, and behavioral improvement) of those using CPAP and those using an oral appliance are equivalent, taking into account poor CPAP compliance.

☐ This is true even for severe apnea.

Sources: Weaver, Grunstein, 2008 PROCEEDINGS OF THE AMERICAN THORACIC SOCIETY
Sutherland, Vanderveken et al 2014 formal of Clinical Stop Medicine
Issued ICO et al. 2015. Sederal Patterna all Position Karopa Pressure Atherence upon Diagnos
Aprea. Otolary ngol Head Neck Surg. 2015 Nec; 153(5):281-7

### What does successful treatment look like?

### Test, Test, Test! Objective measuring is key!!!

- AHI does not need to be under 5 to be a success!
- Reducing AHI < 30 normalizes a patient's risk of:</li>
- All-cause mortality
- Cardiovascular mortality
- Reducing AHI < 15 normalizes a patient's risk of:</li>
  - · Cancer mortality
- Stroke

### Compliance is CRITICAL!

- · A patient sees zero benefit if they don't wear the prescribed treatment
- If using a CPAP, keep pressure in mind. ~ 10 cm becomes intolerable to many people. If a patient reports having a difficult time, either lower the pressure (and accept a higher AHI), or consider alternative treatment

### Learning Objectives - review

- How to screen for sleep apnea; questions to ask your patients
- Look for associated diseases/symptoms
   Depending on your practice, ask the STOP-BANG Questionnaire, or simply ask if anyone has told them they snore. Industry treatment guidelines; when to consider an oral appliance vs. a CPAP
- Oral appliances should be considered for anyone that prefers it to a CPAP or who
  has found they cannot tolerate a CPAP
- · What goals/thresholds to set for successful treatment
- Goal #1: Ensure patient is compliant
  Goal #2: AHI below 30
- Goal #3: AHI below 15
- Goal #4: AHI below 5

### Questions?

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