CT / CBCT Imaging Requirements

for all Customers

Soteria Biotech Co., Ltd.
2024.07.22

Suitable CBCT Examples

*or any available CT is suitable

PLANMECA

Viso® family of premium CBCT imaging units

NewTom

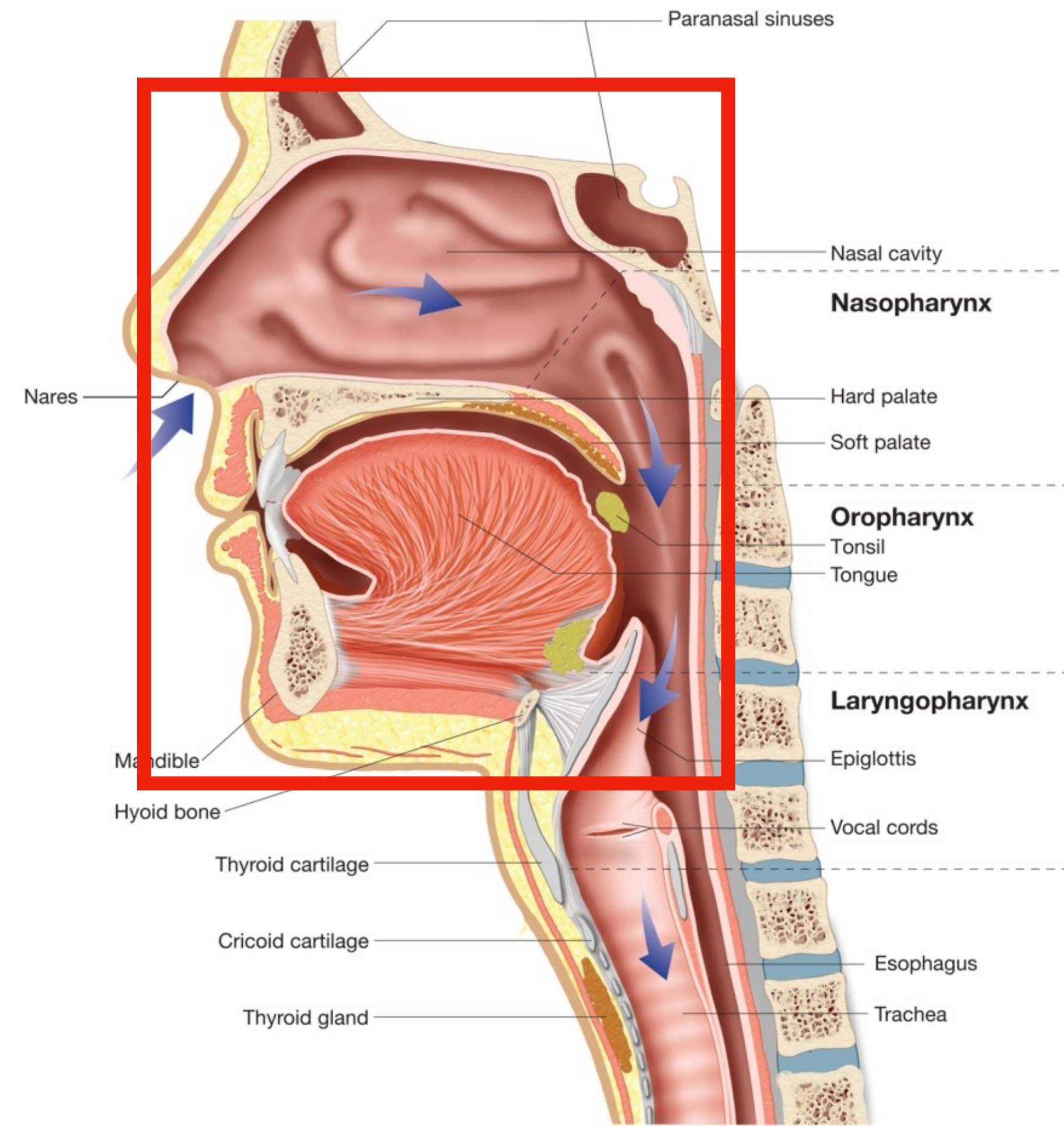Viso® family of premium CBCT imaging units

HDx WILL

Panoramic X-ray system eco-x

Standard CT Image (Hospitals)

Pixel size: 0.0625cm x 0.0625cm x 0.0625cm **or better**

- **Head and Neck CT**

- **At least the area in the red box**

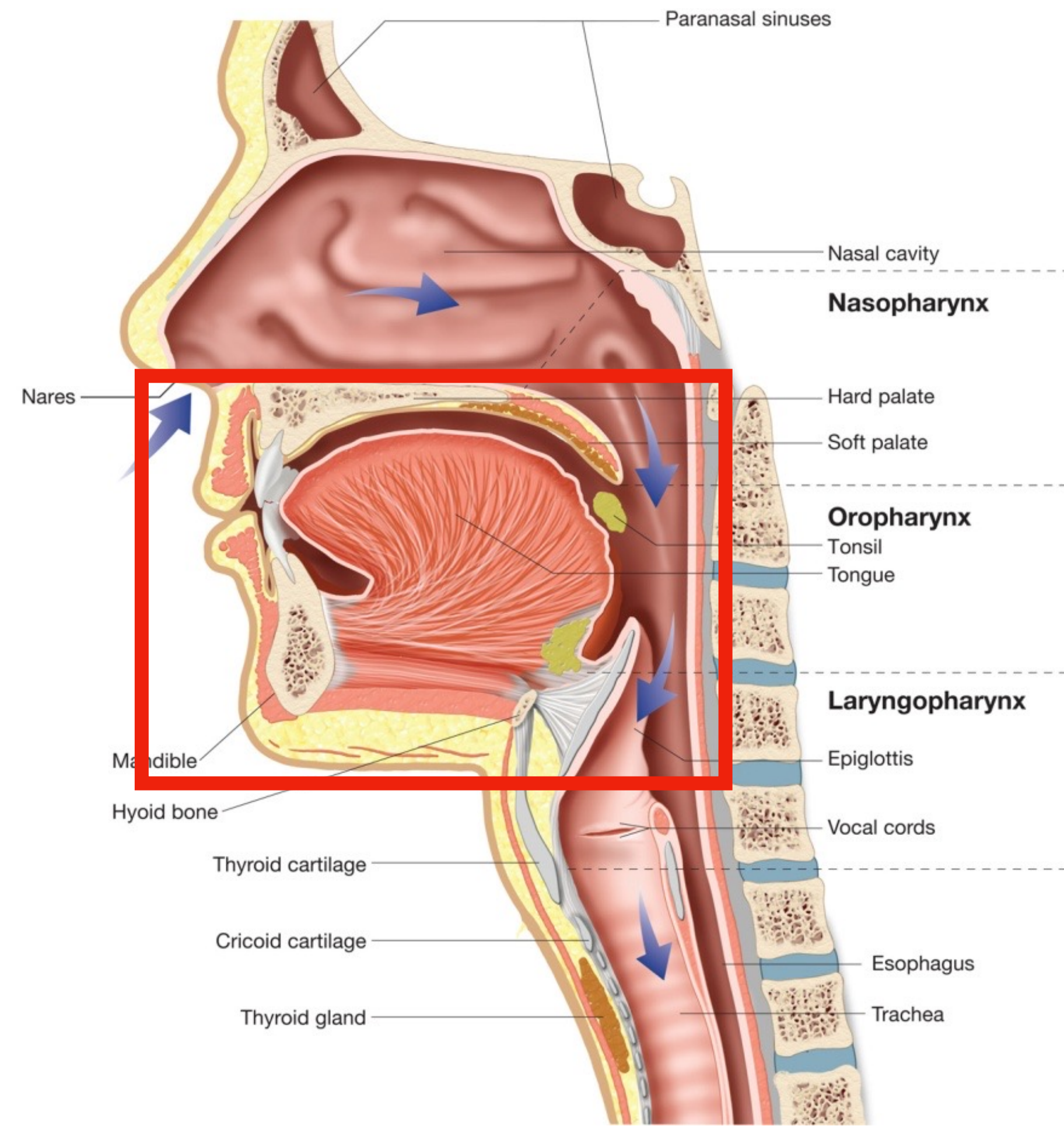- **From the circled nasal cavity and down to the hyoid bone**

Standard CBCT Image (Dental)

Pixel size: 0.0625cm x 0.0625cm x 0.0625cm or better

Shooting range: FOV > 10cm x 10cm or greater

- **Head and Neck CT**

- **At least the area in the red box**

- **From above the end of the circled hard palate and down to the hyoid bone**

CT / CBCT Shooting Method

*contrast agent isn't required

1. Before the shooting, the patient should:
   - lie down (CT) or sit/stand (CBCT),
   - be in centric occlusion,
   - completely exhale all air from chest and abdomen.

2. During the shooting, the patient should:
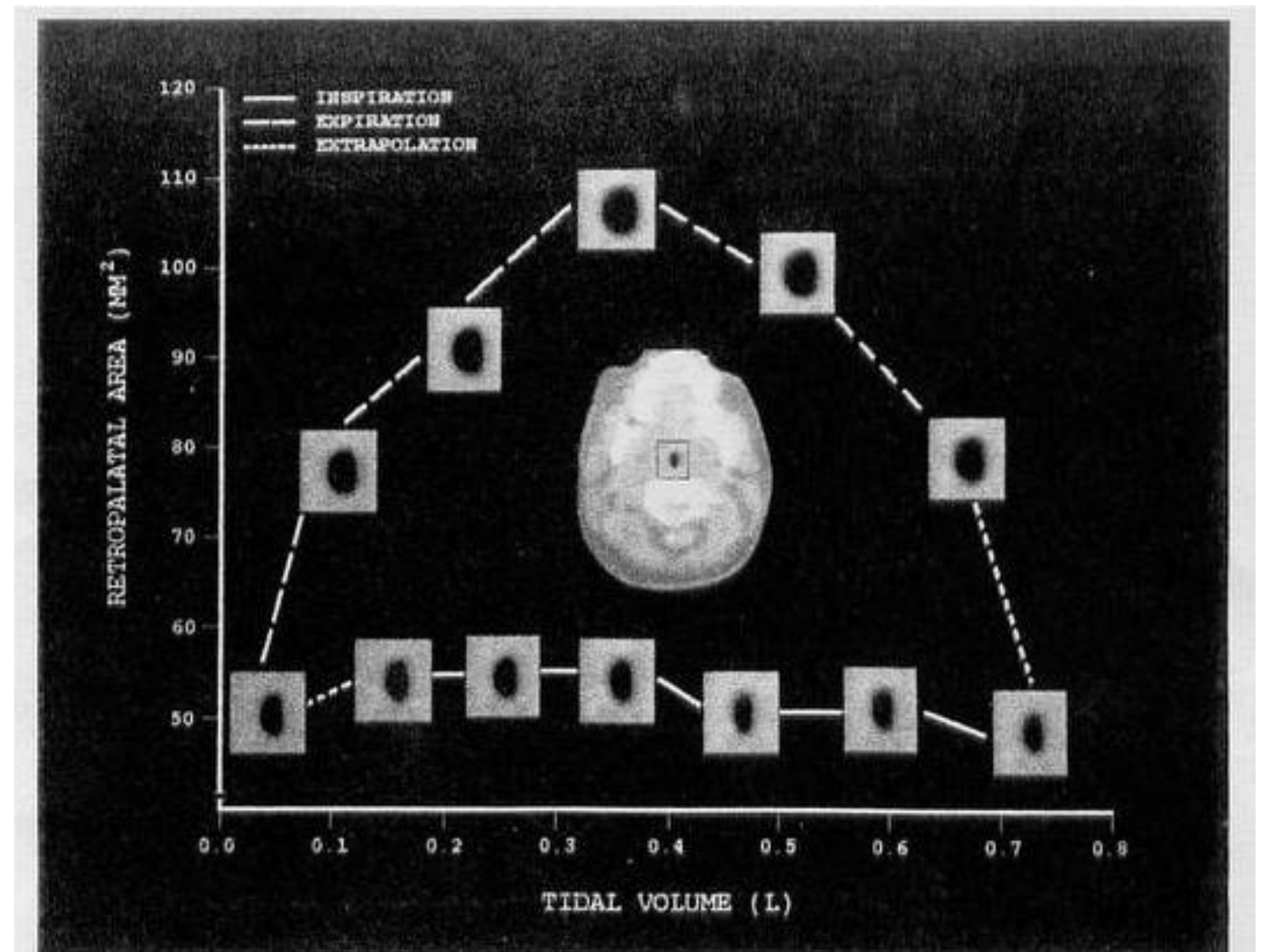   - keep holding exhaled state,
   - strictly avoid swallowing.

Figure 2. Axial CT images during respiration in an apneic subject at the retropalatal low level, demonstrating respiratory variation in upper airway caliber. The airway caliber in this subject remains relatively constant during inspiration, enlarges in early expiration, and narrows toward the end of expiration. At the end of expiration the airway is smaller than at the beginning of inspiration. Note the anterior-posterior orientation of the apneic airway. (*Solid line* = inspiration, *dashed line* = expiration, and *dotted line* = extrapolation between end of inspiration and the beginning of expiration, and between end of expiration and the beginning of inspiration.)