

Fundamentals of 2D Imaging

Pax-I

Date : January, 2013

The Education Team

VATECH America, Inc.

2D Imaging:

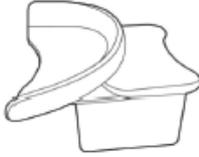
- I. Positioning Appliances
- II. Patient Positioning Laser Lights

2D Troubleshooting:

- I. Proper vs Improper Positioning

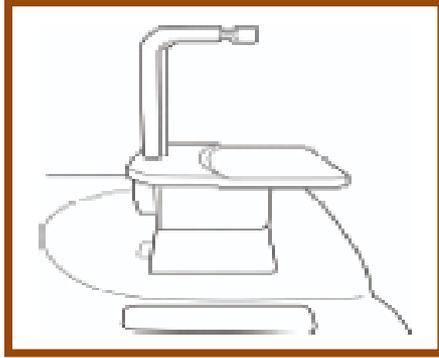
I. 2D – Positioning Appliances

Four (4) Positioning Appliances:

Accessory	Description
	Normal bite
	Support for edentulous patient
	TMJ support
	Sinus support

*****Taller than the Sinus appliance*****

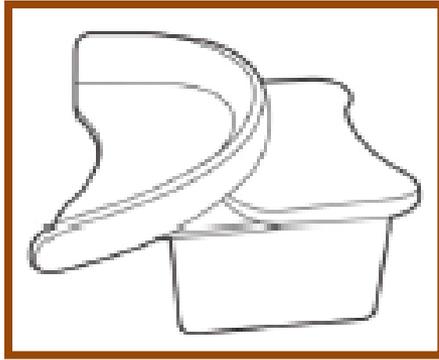
I. 2D – Positioning Appliances



Panorama



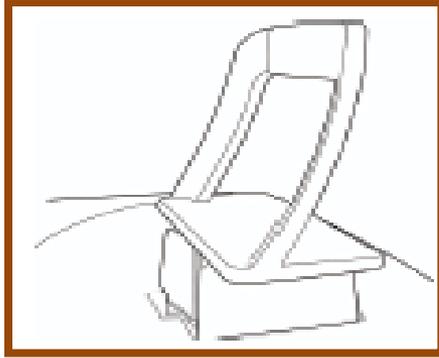
I. 2D – Positioning Appliances



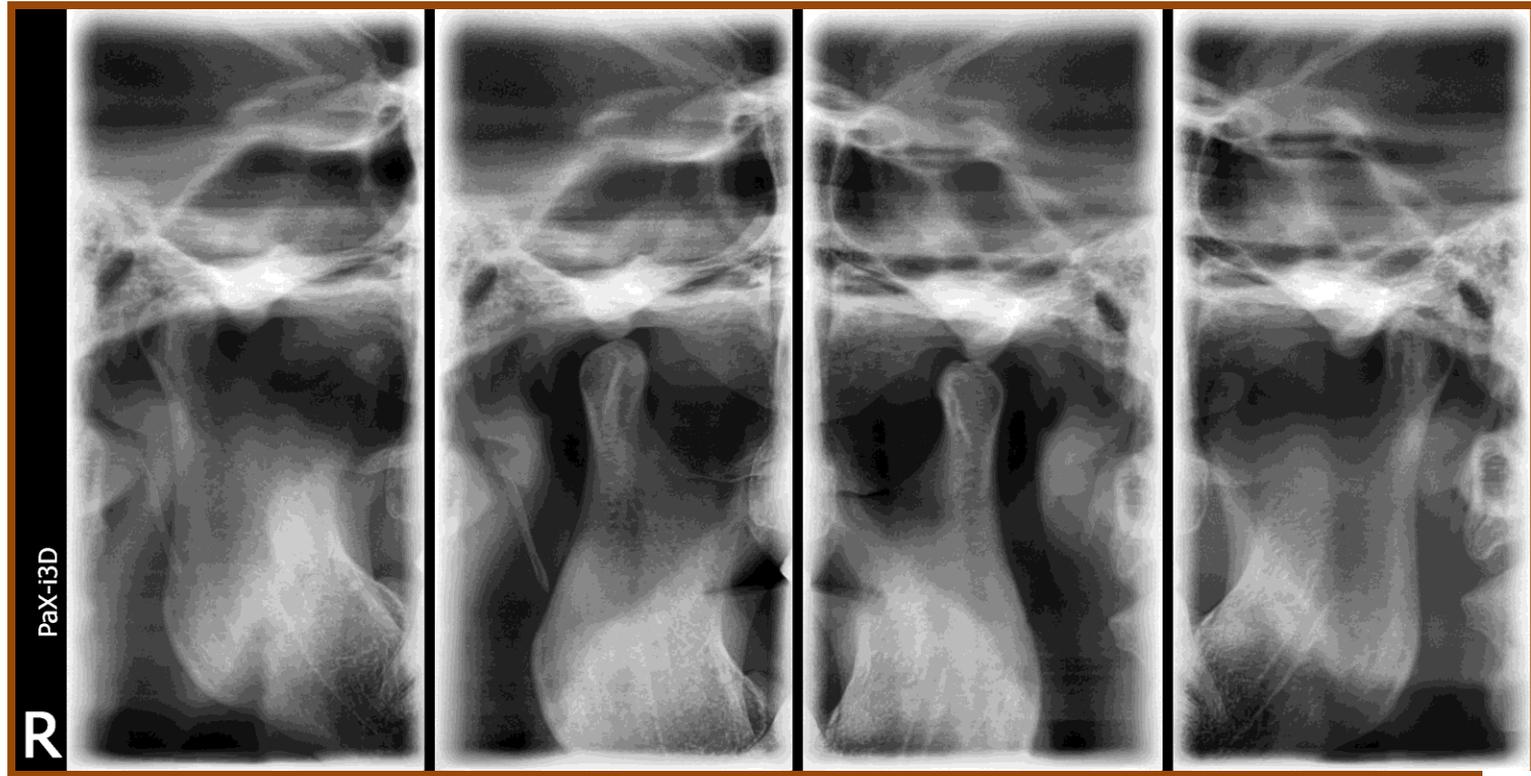
Edentulous



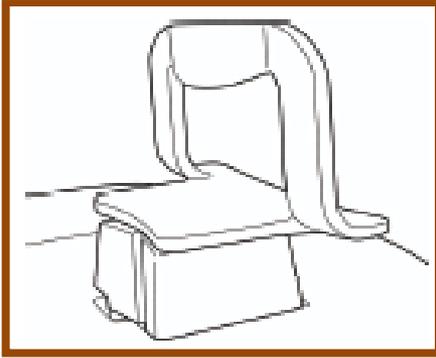
I. 2D – Positioning Appliances



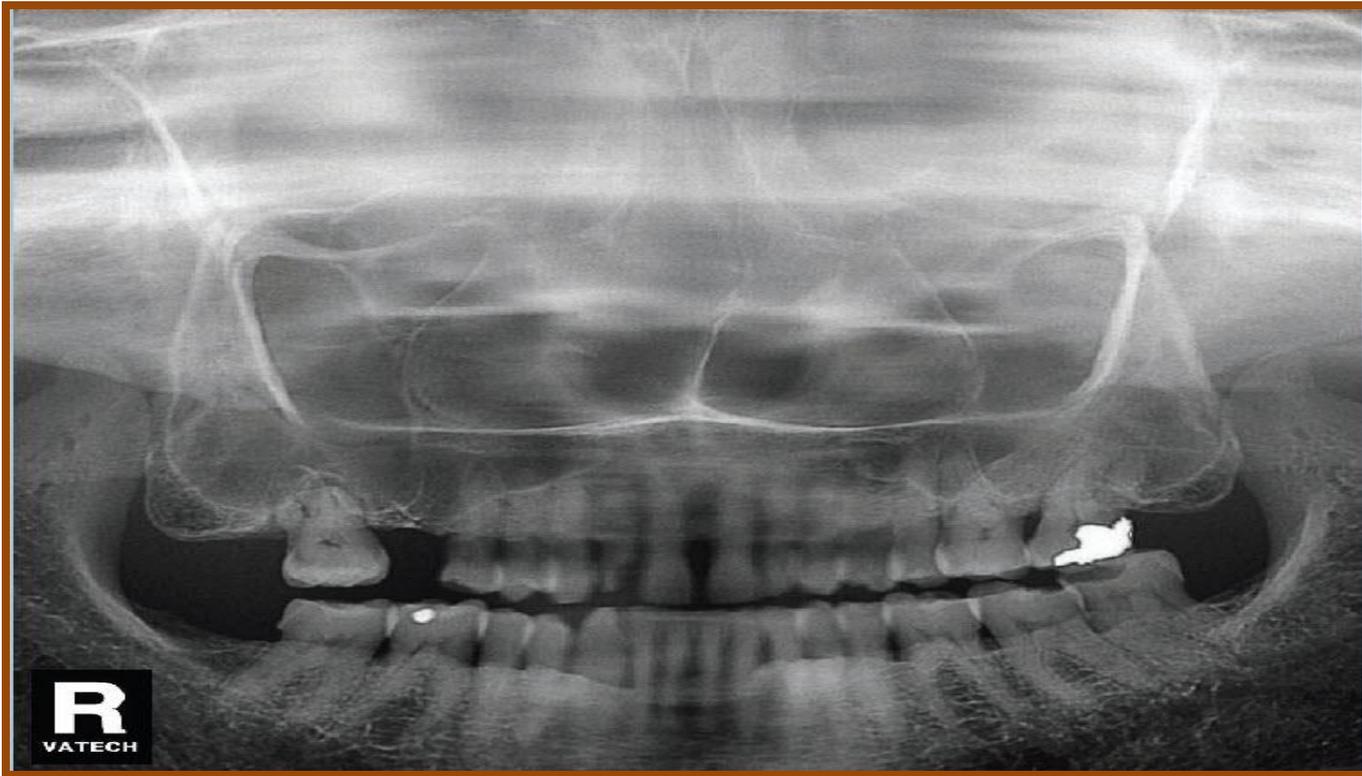
TMJ



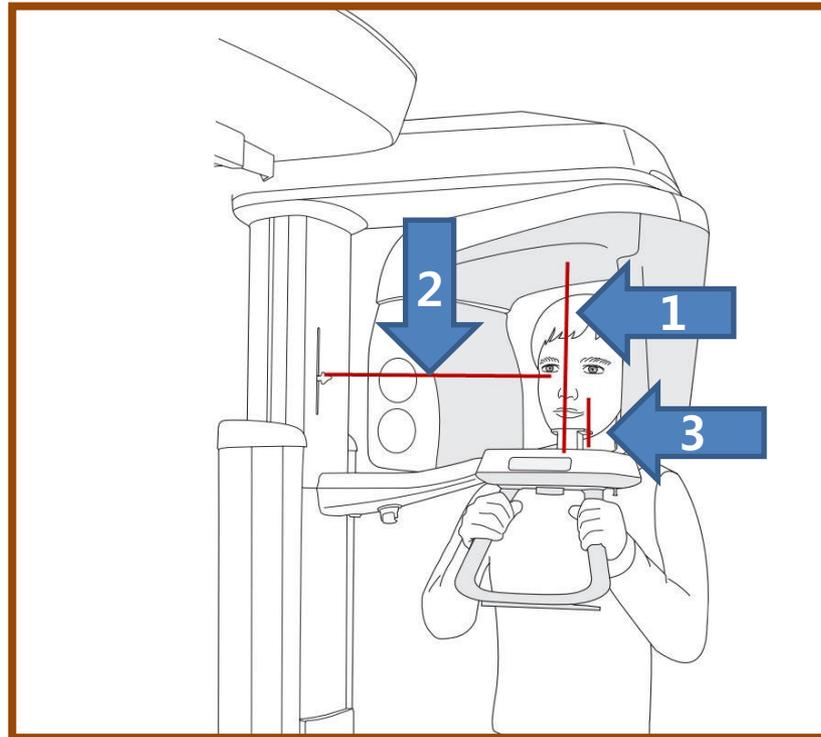
I. 2D – Positioning Appliances



Sinus



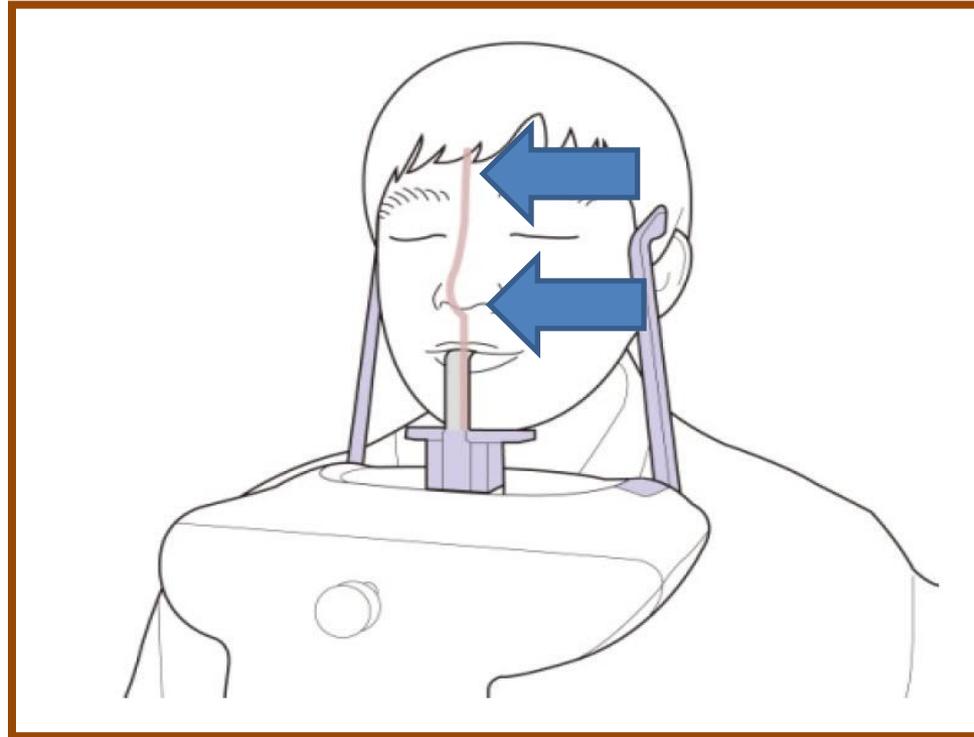
II. 2D – Positioning Laser Lights



- 1- Mid-Sagittal Vertical Laser Light
- 2- Frankfort Horizontal Laser Light
- 3- Canine Laser Light

II. 2D – Positioning Laser Lights

**PANORAMA OBJECTIVE : “Natural Head” Position
(Panorama, Special and TMJ)**

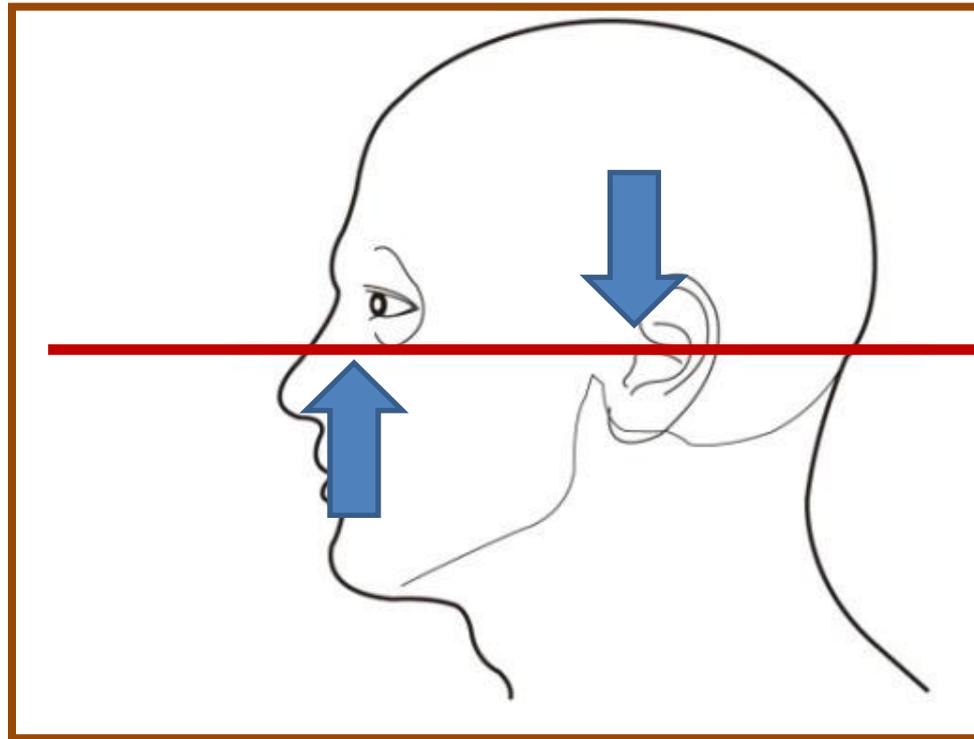


1- Mid-Sagittal Vertical Laser Light

**Centered between the Eyebrows
Center of the Philtrum**

II. 2D – Positioning Laser Lights

**PANORAMA OBJECTIVE : “Natural Head” Position
(Panorama, Special and TMJ)**

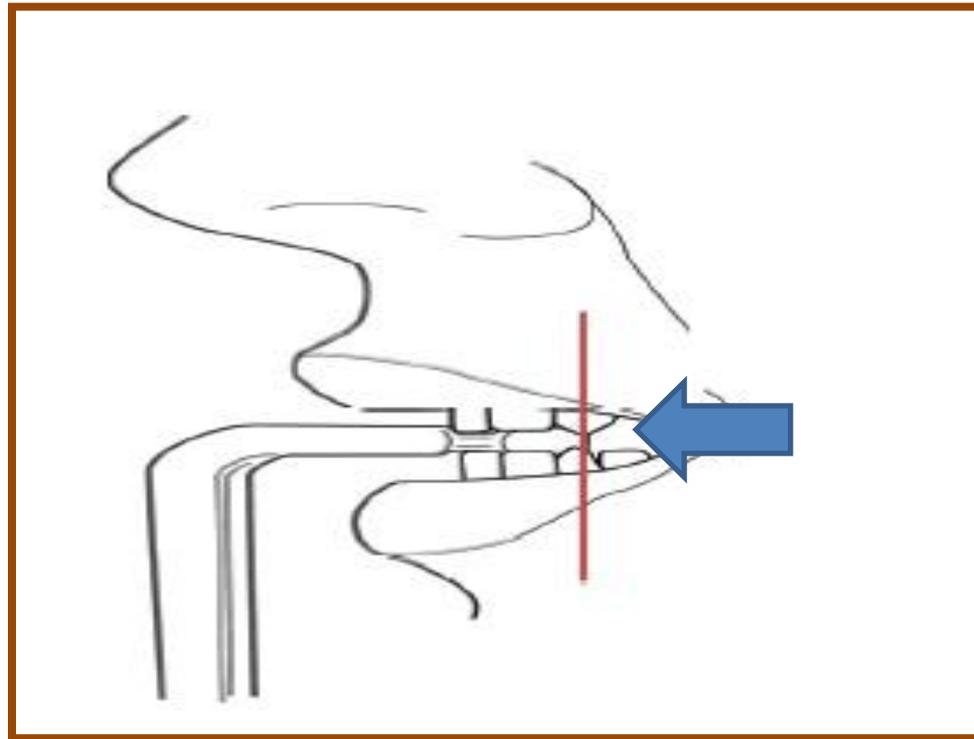


2- Horizontal (Frankfurt) Laser Light

Top of the Tragus (EAM)
Bottom of the Orbital Rim

II. 2D – Positioning Laser Lights

*PANORAMA OBJECTIVE : “Natural Head” Position
(Panorama, and Special Modes)*

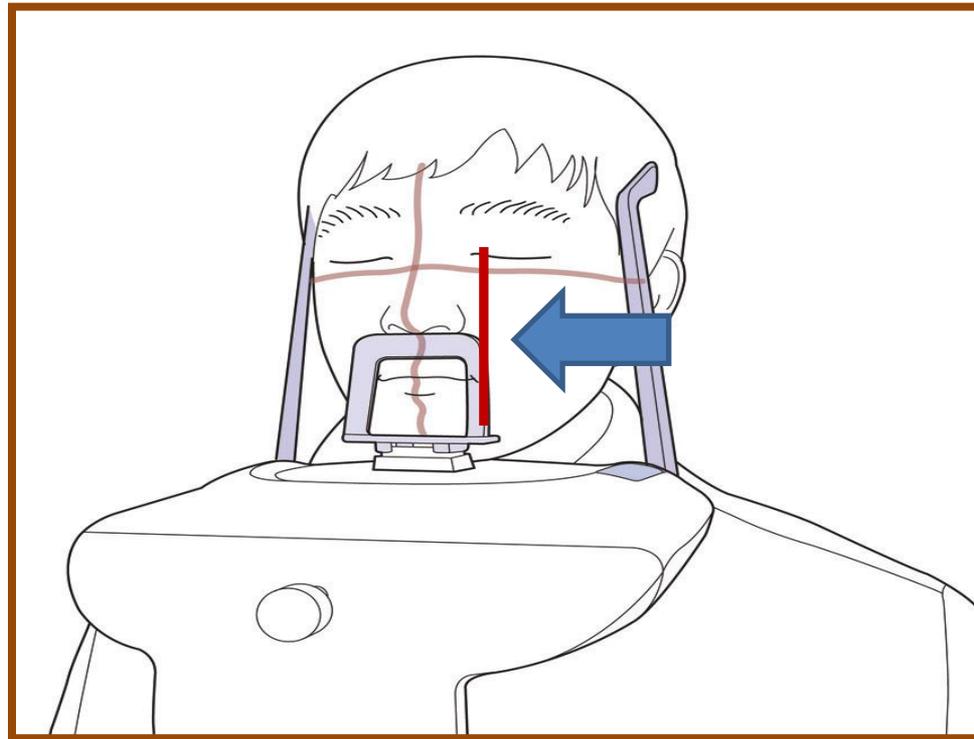


3- Canine Laser Light

Center of the Upper Canine Tooth

II. 2D – Positioning Laser Lights

TMJ OBJECTIVE : Capture entire Condyle

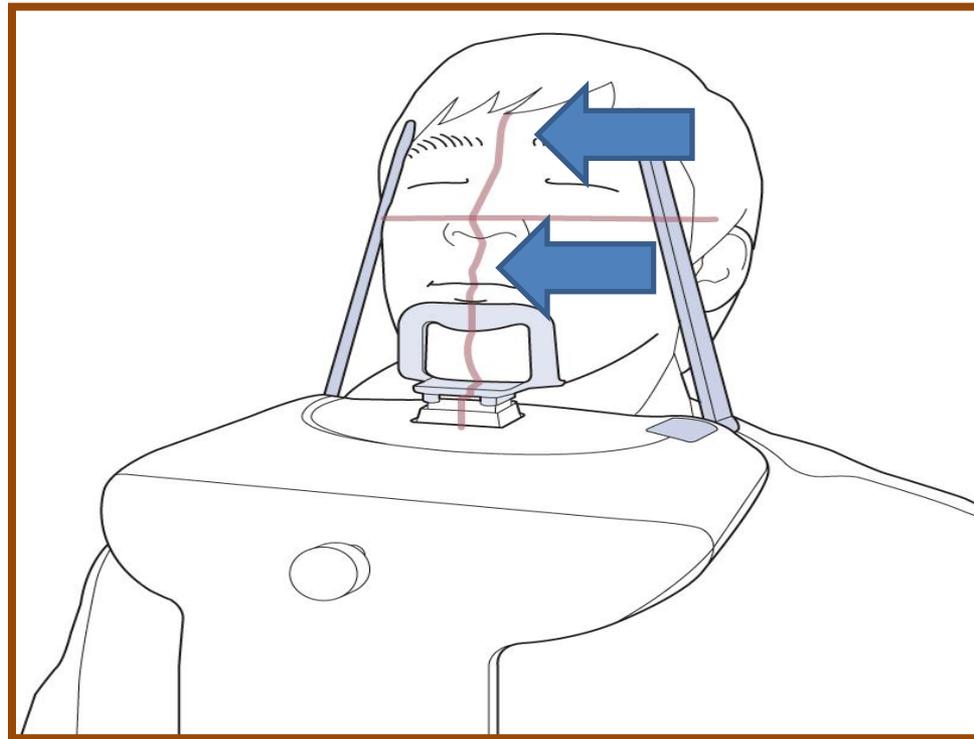


Canine Laser Light

**Adjust laser light Distal as possible
(Corner of the lip)**

II. 2D – Positioning Laser Lights

SINUS OBJECTIVE : “Open View “ of Sinus Cavity

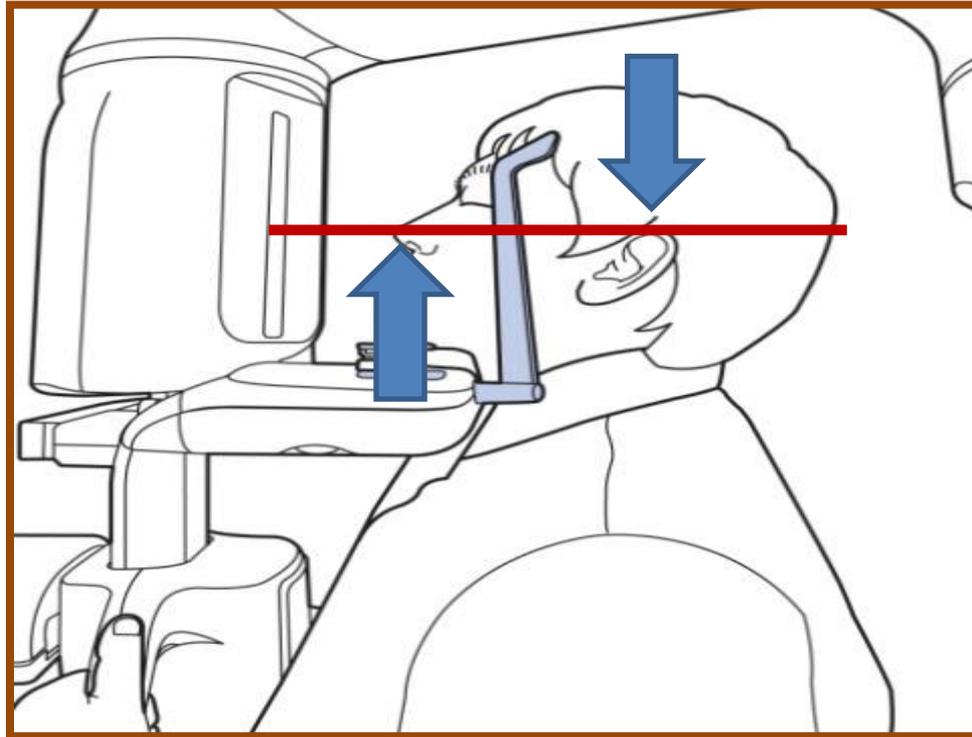


Mid-Sagittal Vertical Laser Light

Centered between the Eyebrows
Center of the Philtrum

II. 2D – Positioning Laser Lights

SINUS OBJECTIVE : “Open View “ of Sinus Cavity

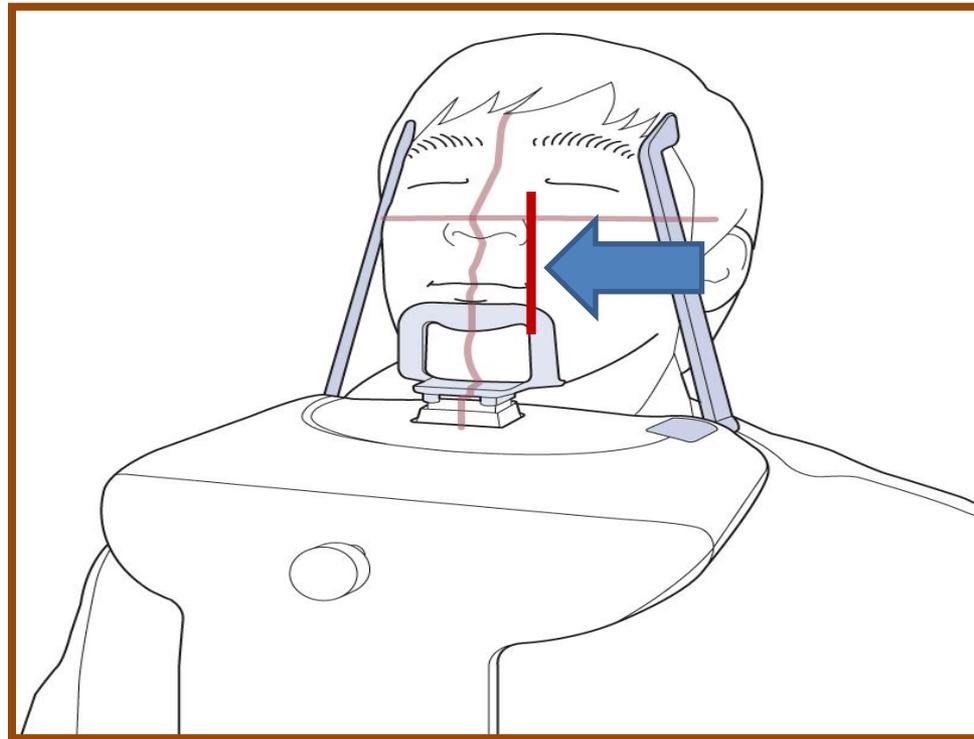


Horizontal “Frankfurt” Laser Light

Top of the Ear
Tip of the Nose

II. 2D – Positioning Laser Lights

SINUS OBJECTIVE : “Open View “ of Sinus Cavity



Vertical “Canine” Laser Light

Corner of The Lip

V. Proper vs Improper Positioning



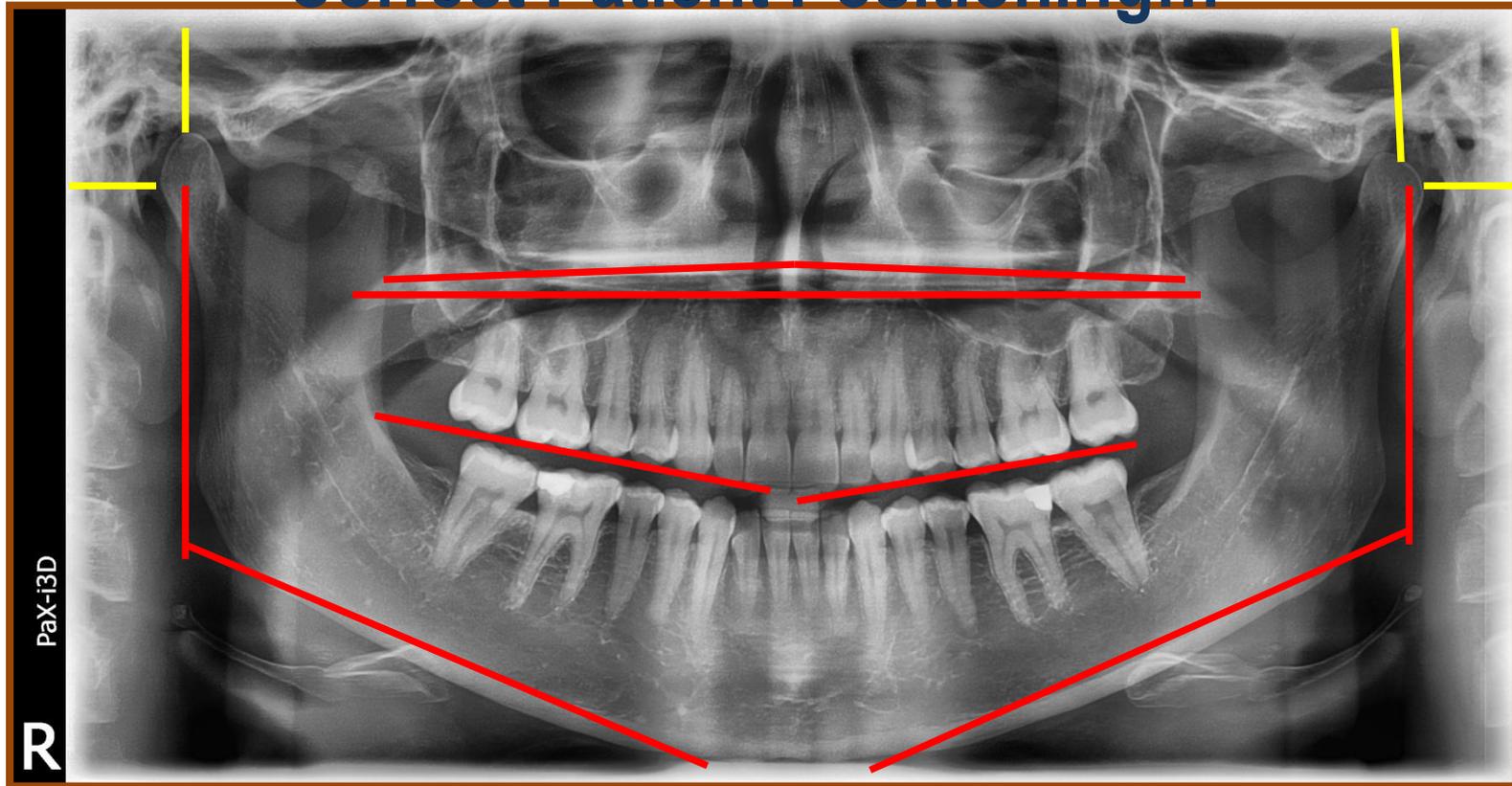
Panoramic

Lateral Cephalometric



V. Proper vs Improper Positioning

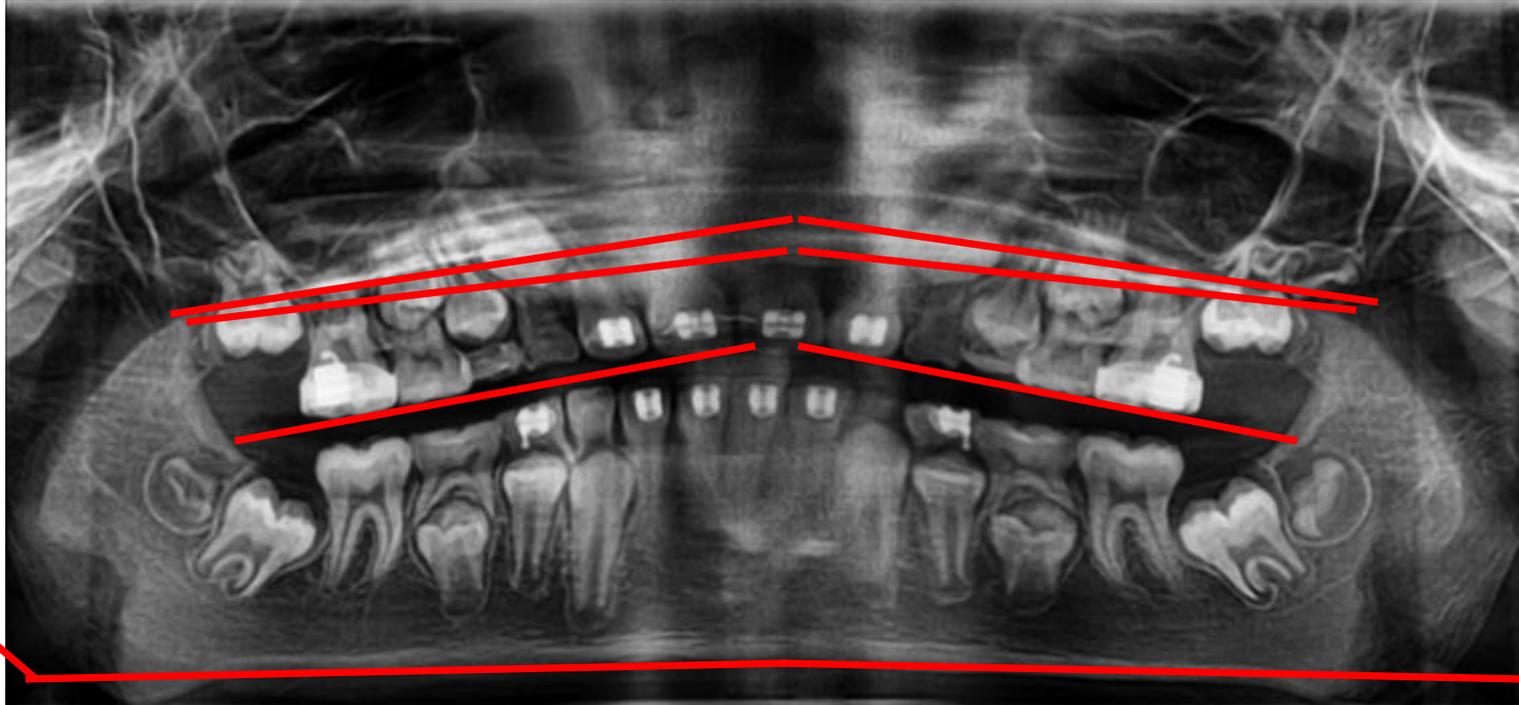
Correct Patient Positioning...



...creates an anatomically accurate image.

V. Proper vs Improper Positioning

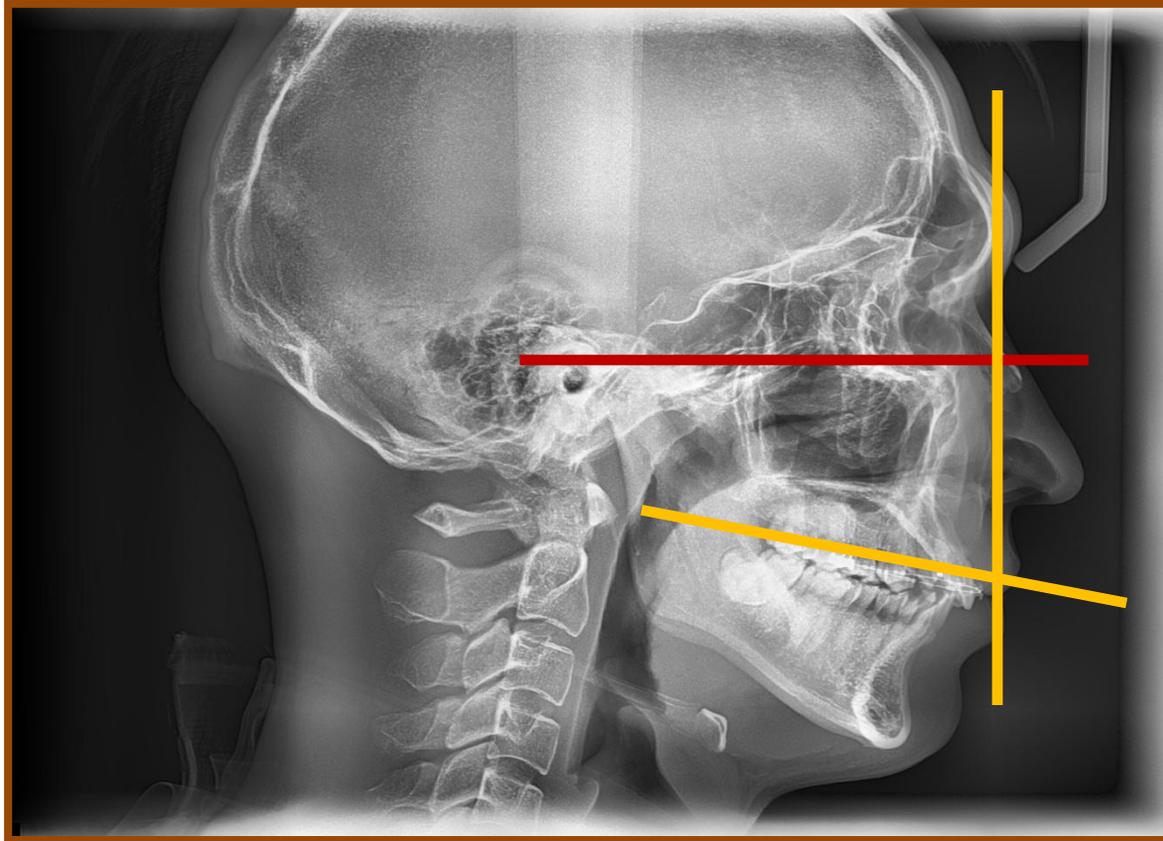
Incorrect Patient Positioning...



...cannot create an anatomically accurate image.

V. Proper vs Improper Positioning

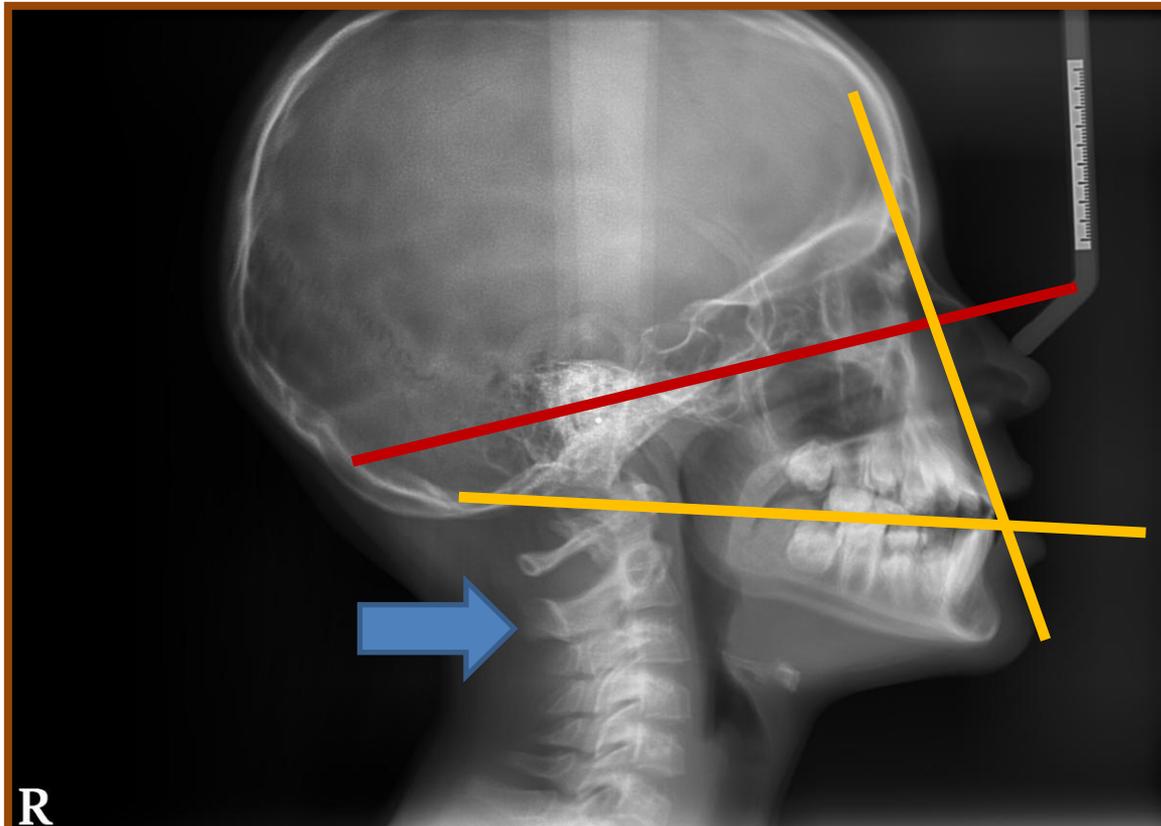
Correct Patient Positioning...



...creates a Anatomically accurate image.

V. Proper vs Improper Positioning

Incorrect Patient Positioning...



...cannot create a Anatomically accurate image.

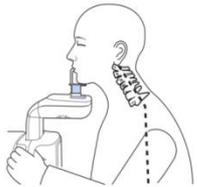
Patient Positioning Guide

for Clinical Panoramic Imaging



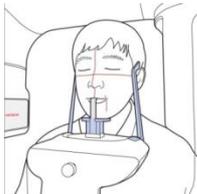
System Initialization and Height Adjustment:

Use the Mid-Sagittal guide light to align the center of the face with the center of the bite stick & or chin support.



Proper Vertical Position:

Have the patient hold handles firmly, stand fully erect with feet slightly forward to extend the vertical spine, and look at themselves in the column mirror. This will alleviate Cervical Spine compression which causes shadowing in the anterior zones.



Adjustment of the Mid-Sagittal Guide Light:

Use the Mid-Sagittal guide light to align the Anterior Nasal Spine (center of the face) with the center of the bite stick &/or chin support.



Adjustment of the Frankfurt Horizontal/Occlusal Guide Light:

Use the Horizontal guide light to align the top of the external auditory canal (top of ear hole) and the lower orbital rim (bottom of eye socket). Use the Chin Support . Function to make minor leveling adjustments.



Adjustment of the Canine Guide Light:

Use the canine guide light to align the light to the center of the upper canine tooth.

Thank You

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