

Patient Name :	Gender : Female
Age : 50Y	Date : 23-07-24
Referring Doctor :	Patient ID :

FINDINGS:

. Image Provided:

- CBCT images of both Maxilla & Mandible are provided in the bone window of maxillofacial region in the Axial, Coronal and Sagittal sections along with 3D images.
- The images are in acquired 360⁰ rotations around the patient's head.
- The acquired data was reconstructed into MPR and Panoramic Projections to depict the Maxillary & Mandibular region.

Area of Interest:

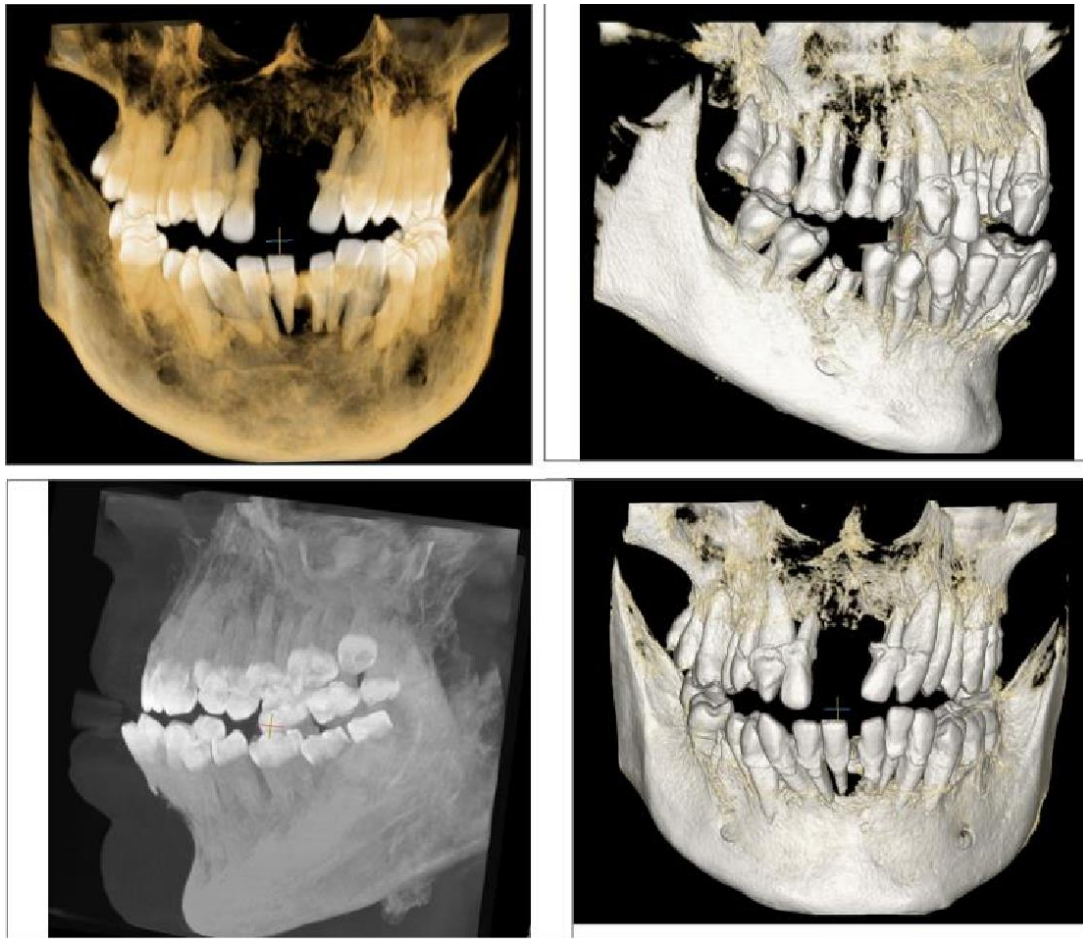
- Maxillary & Mandibular region.

Image Quality:

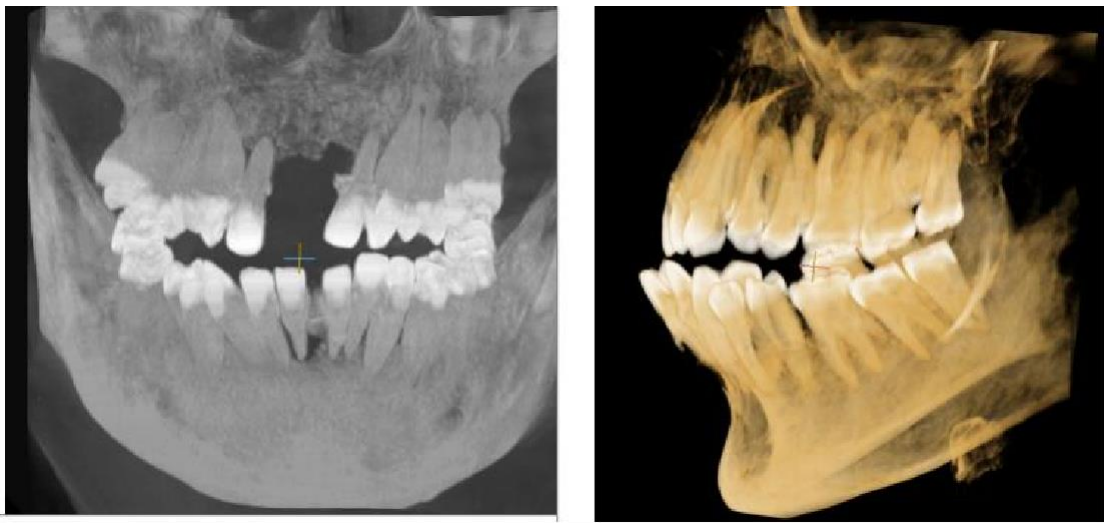
- Optimal for Diagnosis.

Diagnostic Objectives:

- *Bone Evaluation and Implant Planning.*



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✚ Radiographic Findings:

Implant planning:

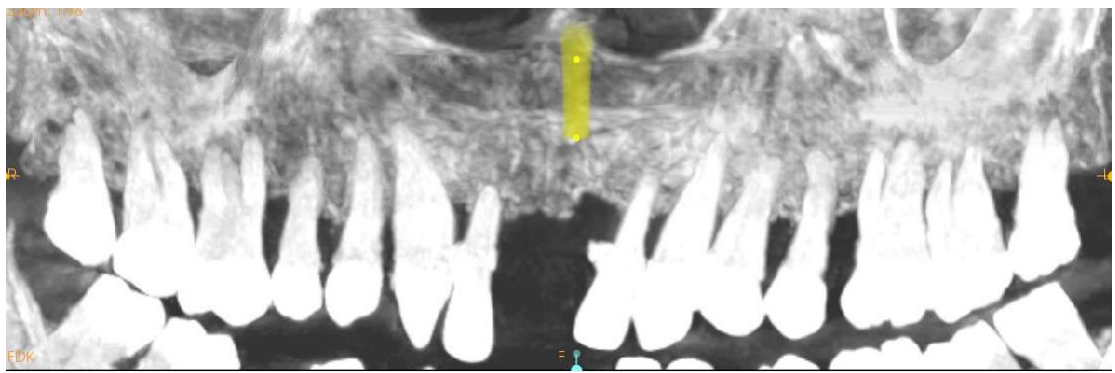
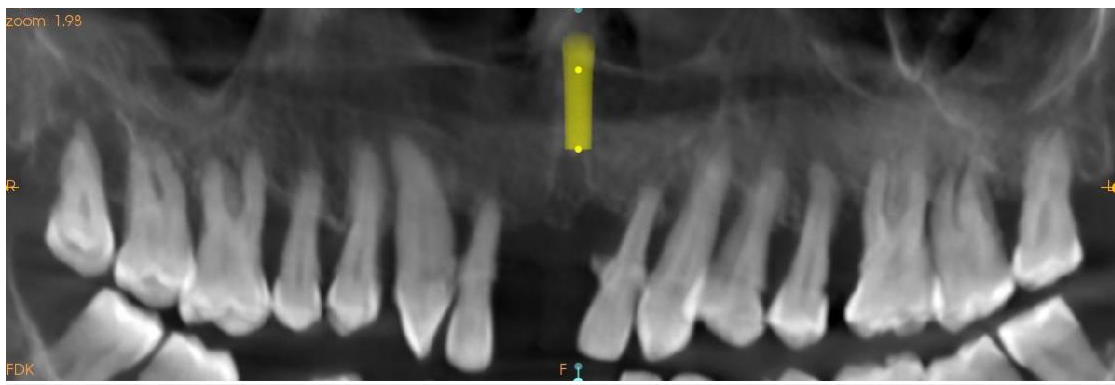
For Maxilla:

Teeth missing –11,21

- Area of interest for implant planning – at the region of missing teeth and periodontally compromised teeth
- The long axis of all maxillary teeth is directed towards mesially due to the loss of periodontal bone s/o Pathological migration of teeth.

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- Nasopalatine nerve tracing is performed.
- Nasopalatine Nerve canal is normal in course and Caliber.



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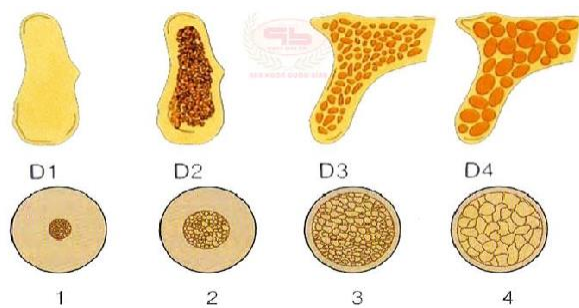
 Bone Evaluation:

- The Approximate available Bone width and height is given in the paraxial sections at 1 mm. Kindly correlate clinically to define exact area

- The Approximate available Bone width and height is as follows:

Region	Bone Height (mm)	Bone width (mm)	Bone Density
12	17.9	3.1	Type III/D3
14	18.3	7.5	Type III/D3
24	17.4	5.1	Type III/D3
25	16.4	7.4	Type III/D3

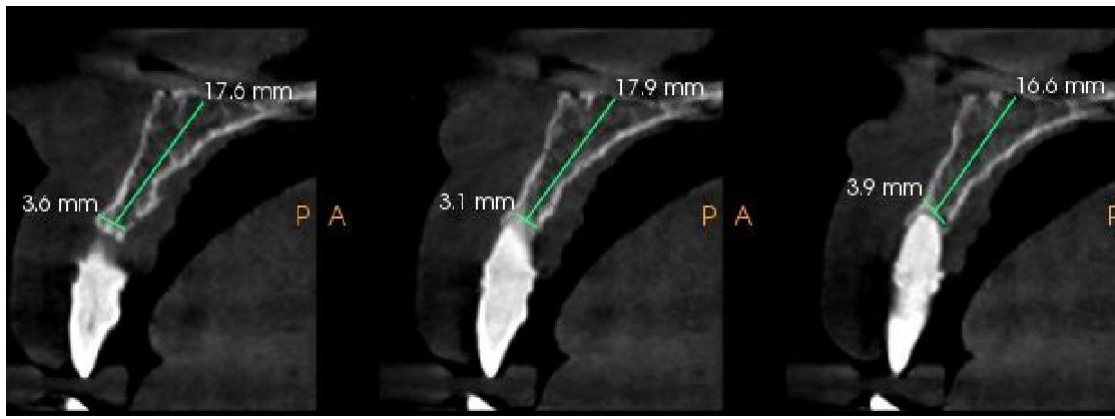
** (Bone density classified according to Lekholm and Zarb classification)*



TYPE	Description	Location	Hounsfield CT
D1	Dense cortical bone	A. Mandible	>1250
D2	Thick cortical and coarse trabecular	A. Mandible P. Mandible A. Maxilla	850–1250
D3	Thin cortical compartment with dense trabecular	A. Maxillae P. Maxilla P. Mandible	350–850
D4	Fine trabecular, extremely thin cortical	P. Maxilla	150–350

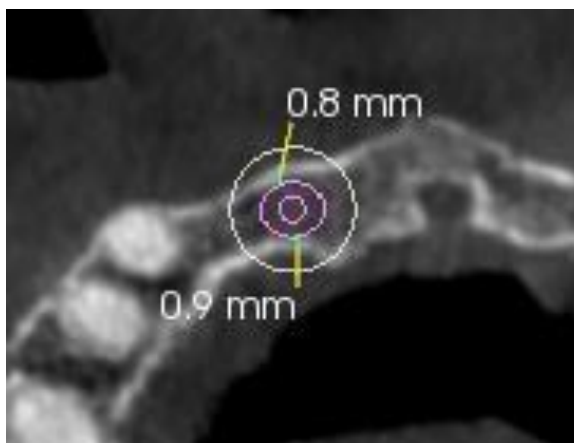
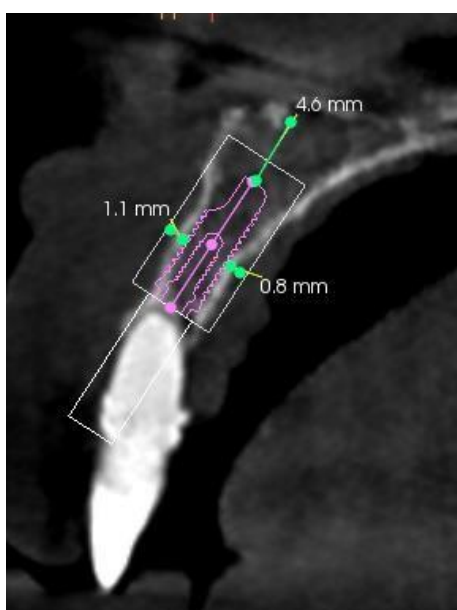
12 region – pre extraction site

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Virtual Implant Simulations: 12

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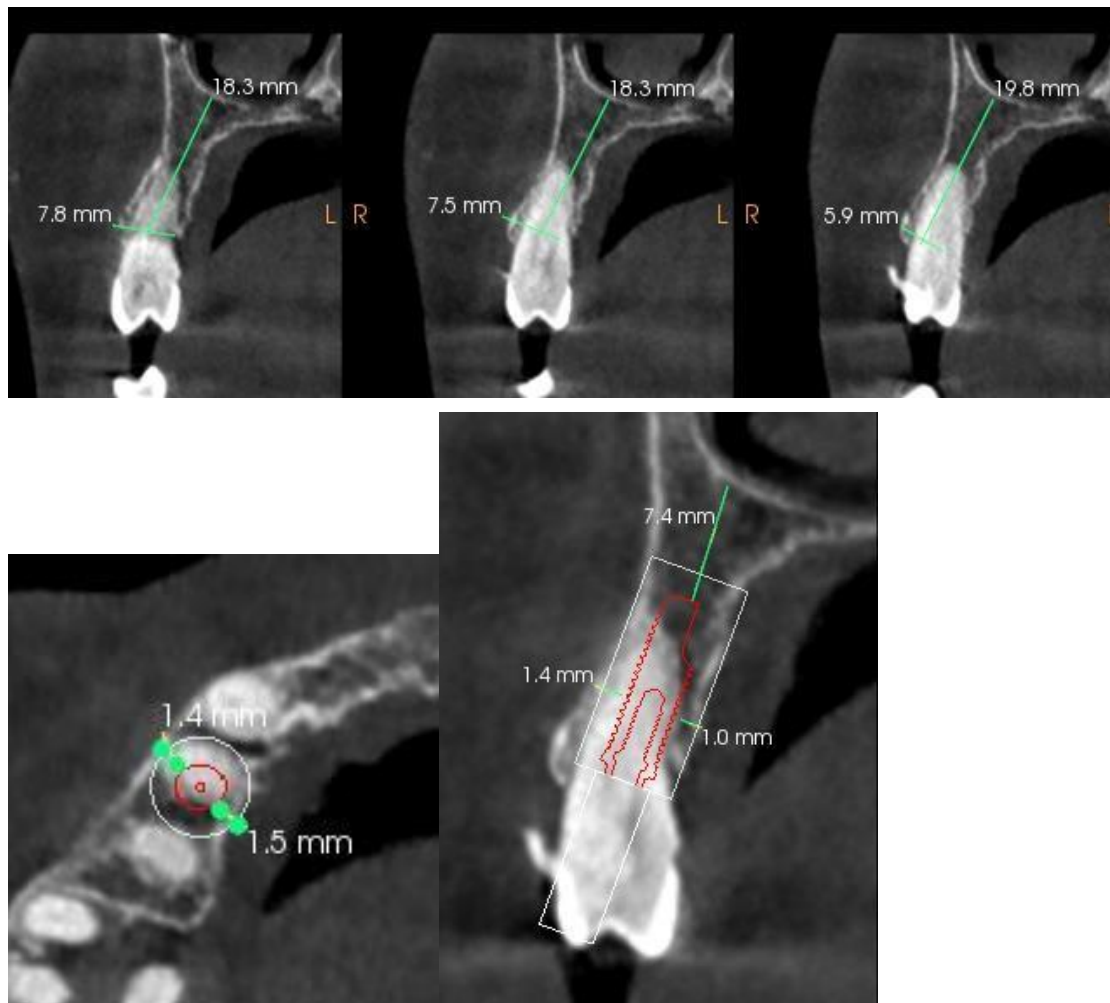
Implant Measurements - 12

<i>Virtual Implant size:</i>	<i>Length- 10.0mm & Width- 3.30mm</i>
<i>Width of Implant at the crest:</i>	<i>3.30mm</i>
<i>Distance of Implant from the Nasal Floor:</i>	<i>4.6 mm</i>
<i>Distance of Implant from the Labial cortical plate:</i>	<i>1.1mm</i>
<i>Distance of Implant from the Palatal cortical plate:</i>	<i>0.8mm</i>

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Note : implant has borderline clearance from buccal and palatal cortical plate.

14 region – pre extraction site

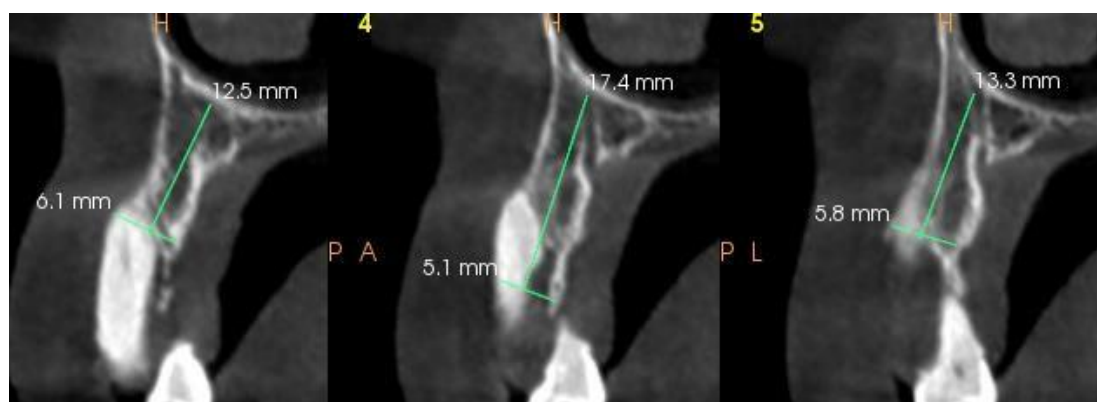


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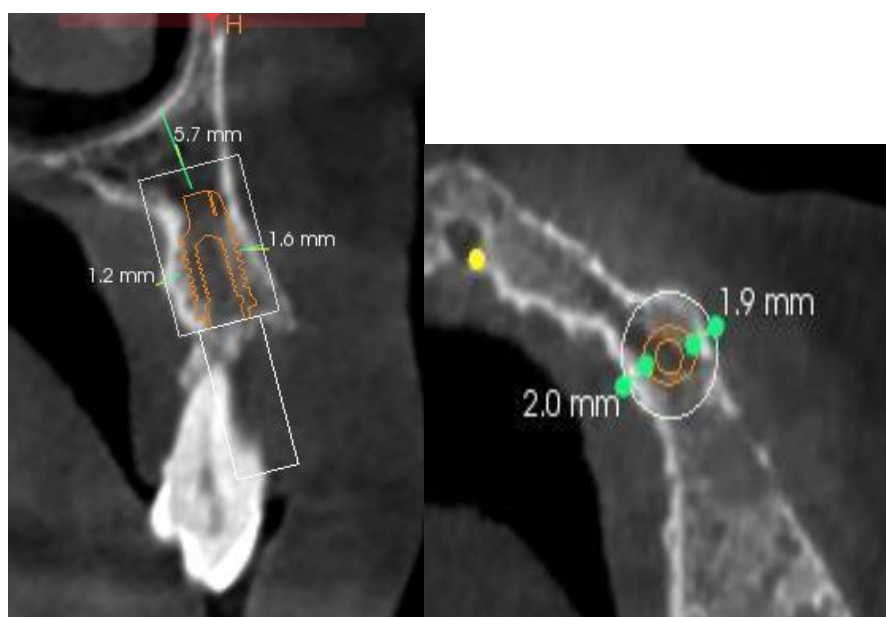
Implant Measurements - 14	
<i>Virtual Implant size:</i>	<i>Length- 11.5mm & Width- 3.30mm</i>
<i>Width of Implant at the crest:</i>	<i>3.30mm</i>
<i>Distance of Implant from the Nasal Floor:</i>	<i>7.4 mm</i>
<i>Distance of Implant from the Labial cortical plate:</i>	<i>1.4mm</i>
<i>Distance of Implant from the Palatal cortical plate:</i>	<i>1.0 mm</i>

Note : implant has borderline clearance from buccal and palatal cortical plate

24 region – pre extraction site



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Implant Measurements – 24

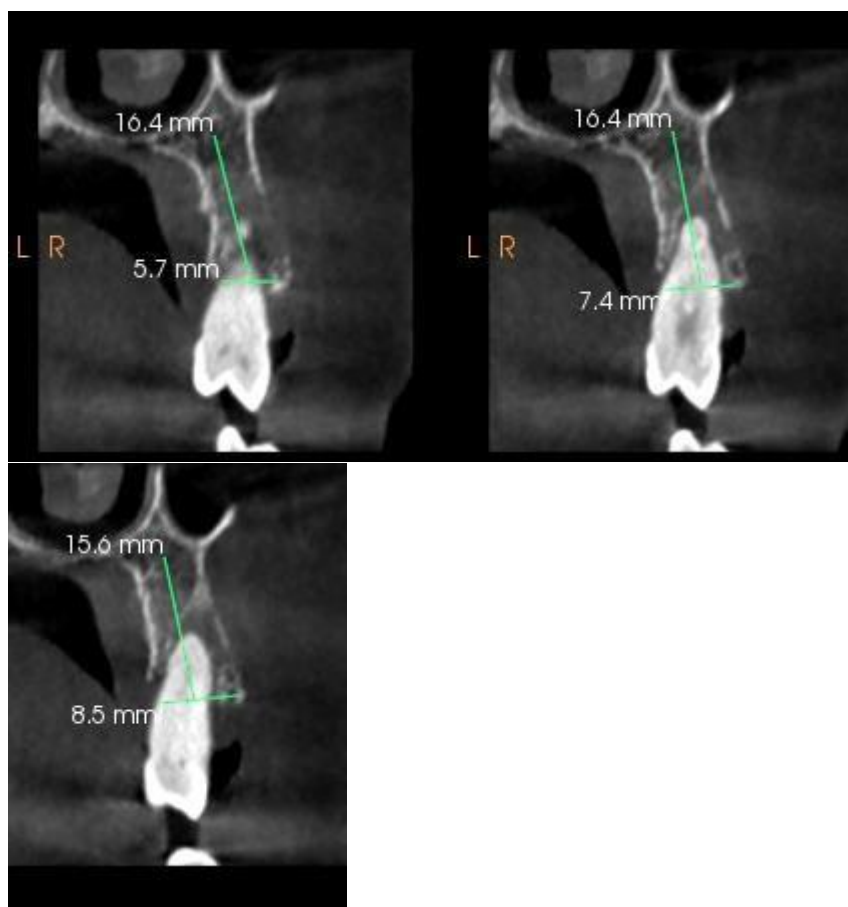
<i>Virtual Implant size:</i>	<i>Length- 8.50 mm & Width- 3.75mm</i>
<i>Width of Implant at the crest:</i>	<i>3.75mm</i>
<i>Distance of Implant from the Nasal Floor:</i>	<i>5.7 mm</i>
<i>Distance of Implant from the Labial cortical plate:</i>	<i>1.6mm</i>

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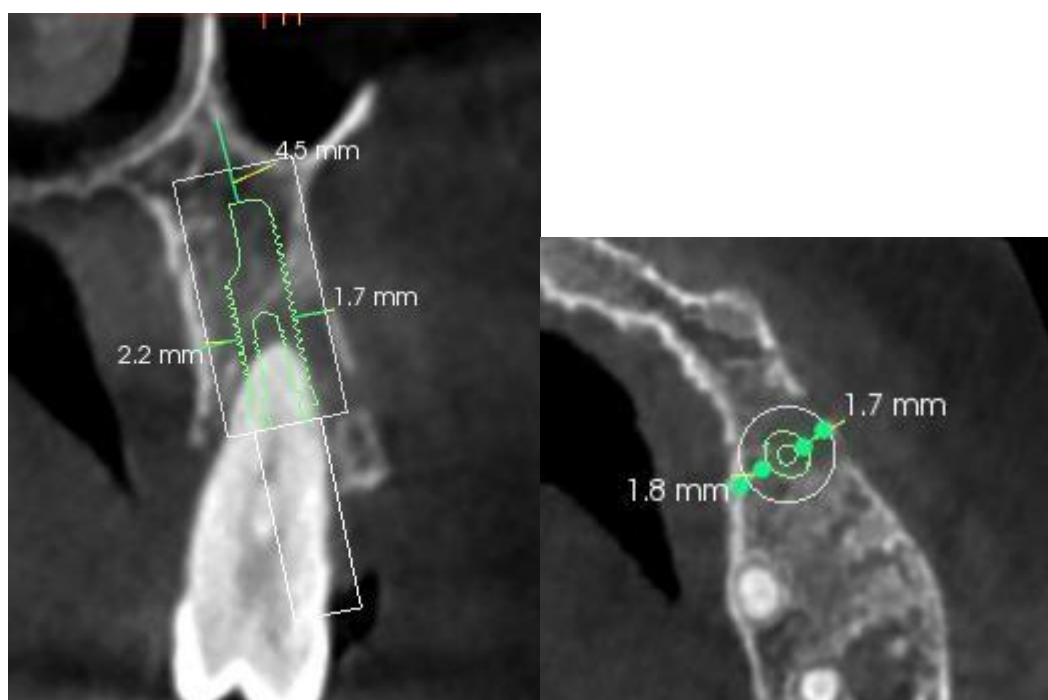
<i>Distance of Implant from the Palatal cortical plate:</i>	<i>1.2 mm</i>
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Note : implant has borderline clearance from buccal and palatal cortical plate

25 region – pre extraction site



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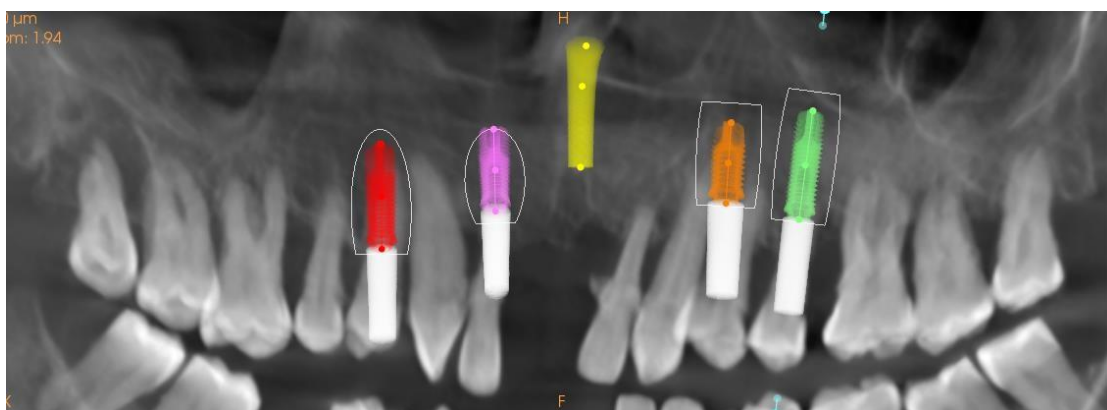


Implant Measurements – 25

<i>Virtual Implant size:</i>	<i>Length- 11.5 mm & Width- 3.30mm</i>
<i>Width of Implant at the crest:</i>	<i>3.30mm</i>
<i>Distance of Implant from the Nasal Floor:</i>	<i>4.5mm</i>
<i>Distance of Implant from the Labial cortical plate:</i>	<i>1.7mm</i>

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<i>Distance of Implant from the Palatal cortical plate:</i>	<i>2.2 mm</i>
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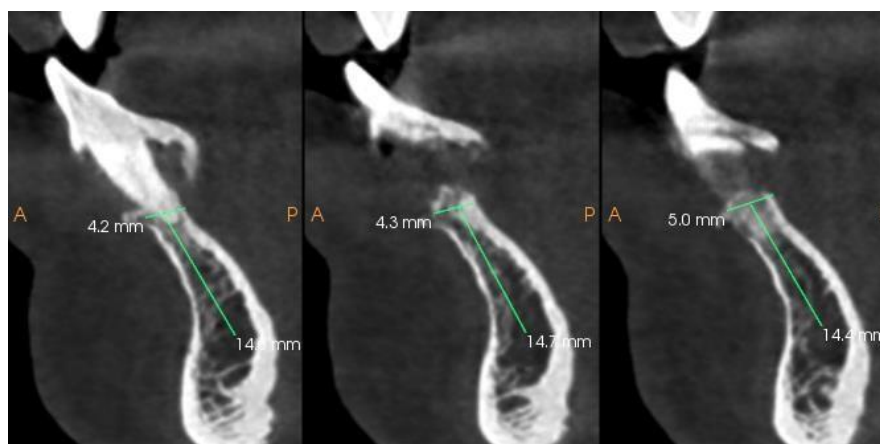
For Mandible -

Region	Bone Height (mm)	Bone width (mm)	Bone Density
32	14.7	4.3	Type III/D3
35	12.8	6.2	Type III/D3
36	12.8	8.8	Type III/D3
42	13.8	4.2	Type III/D3
44	14.2	7.4	Type III/D3

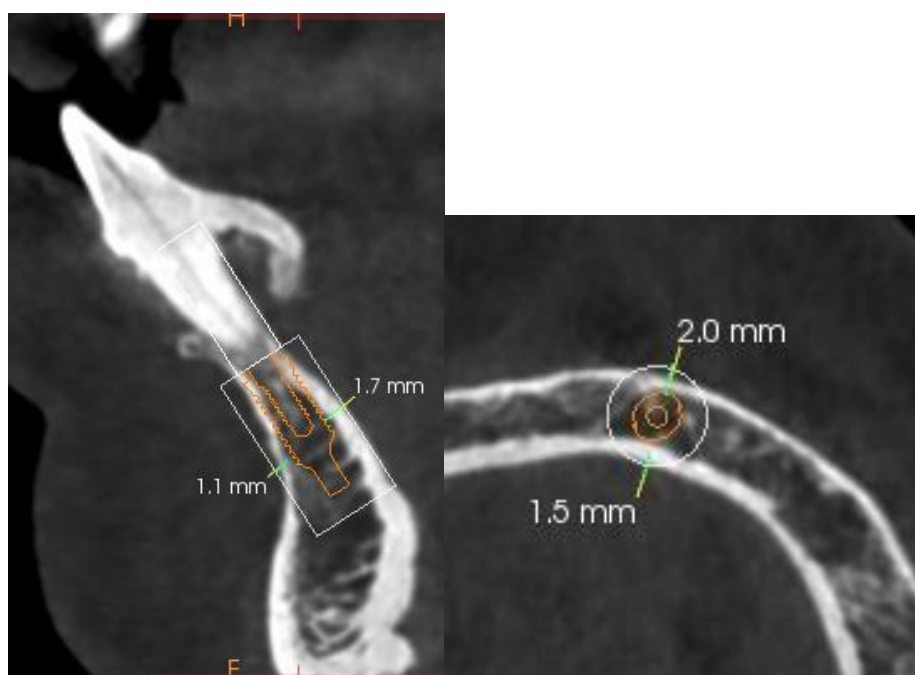
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46	7.9	8.2	Type III/D3
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32 region – pre extraction site



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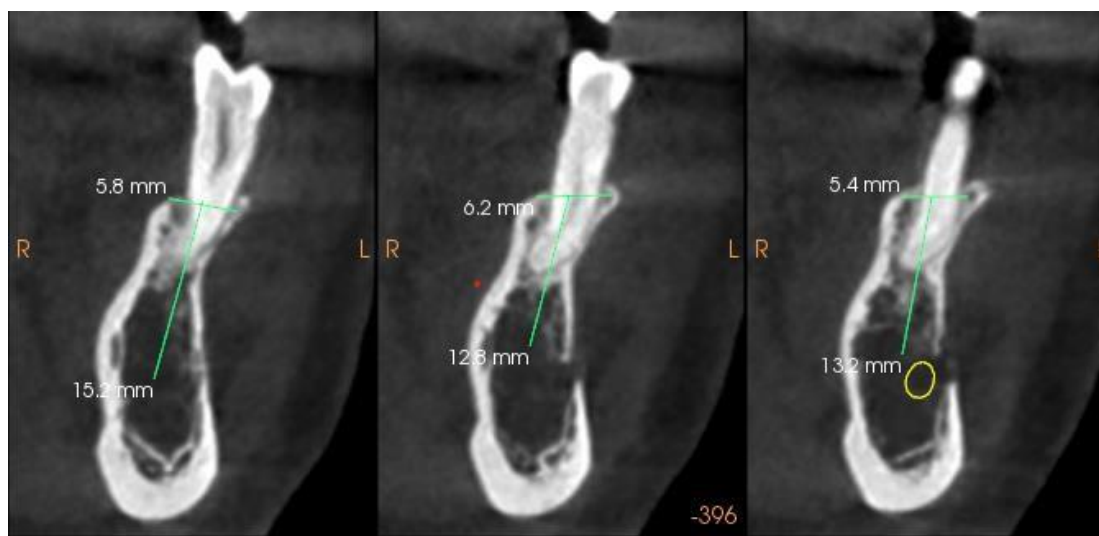


Implant Measurements –32	
<i>Virtual Implant size:</i>	<i>Length- 10.0 mm & Width- 3.30mm</i>
<i>Width of Implant at the crest:</i>	<i>3.30mm</i>
<i>Distance of Implant from the Labial cortical plate:</i>	<i>1.1mm</i>
<i>Distance of Implant from the lingual</i>	<i>1.7 mm</i>

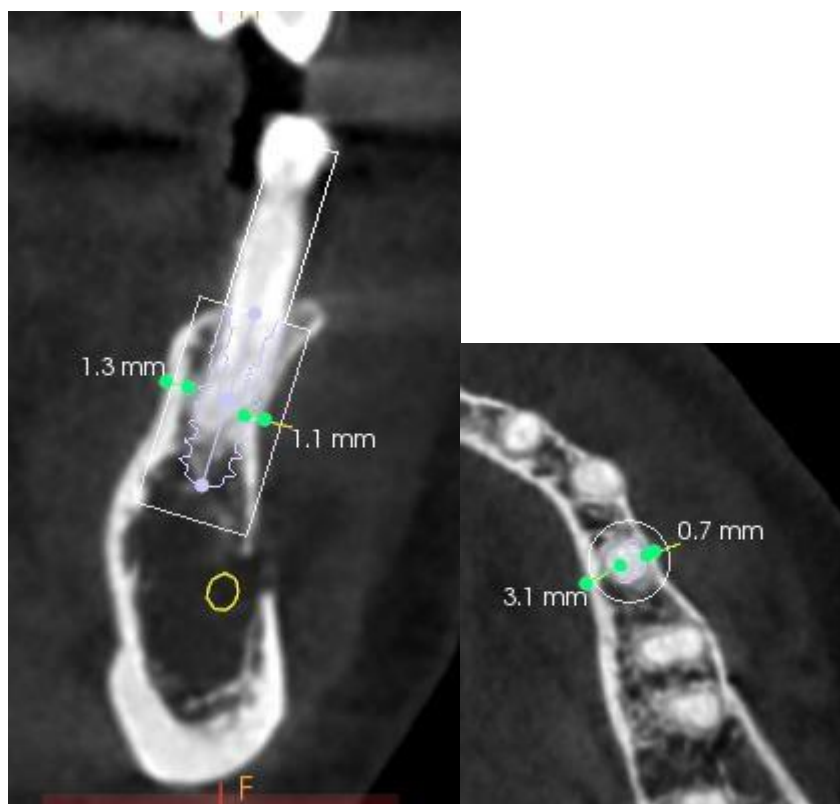
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<i>cortical plate:</i>	
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34 region – pre extraction site



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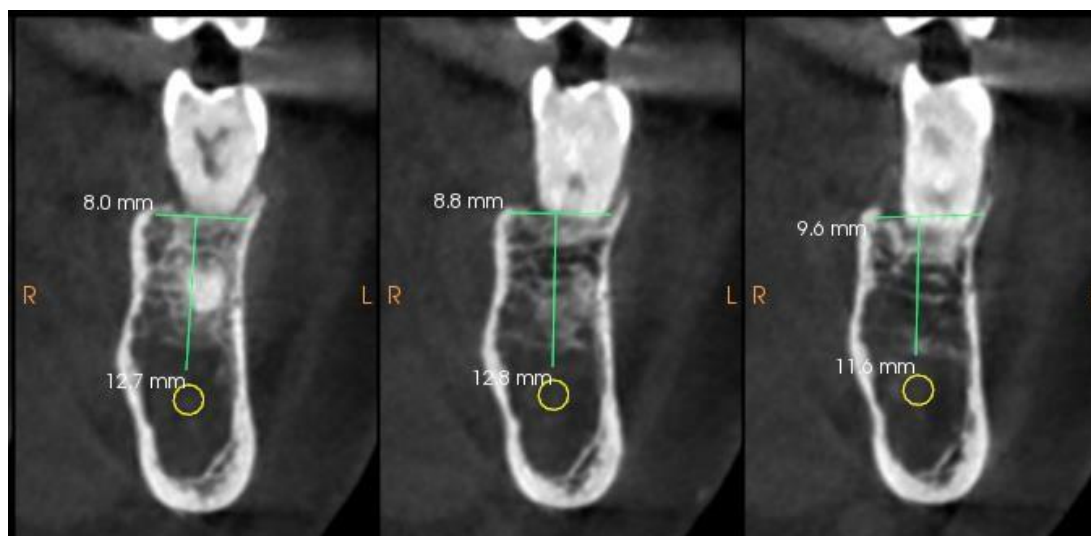


Implant Measurements –32	
<i>Virtual Implant size:</i>	<i>Length- 10.0 mm & Width- 3.50mm</i>
<i>Width of Implant at the crest:</i>	<i>3.50mm</i>
<i>Distance of Implant from the Labial</i>	<i>1.3mm</i>

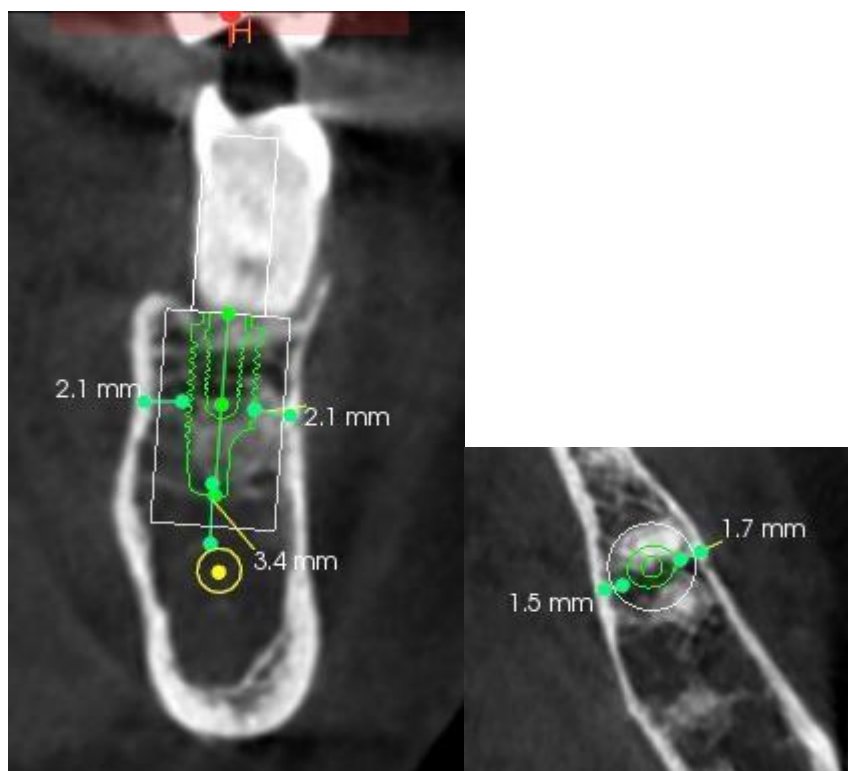
NOTE: This is an online interpretation of medical imaging based on clinical data, wherever available. Not for Medicolegal purpose. In case of any discrepancy please reinvestigate the patient

<i>cortical plate:</i>	
<i>Distance of Implant from the lingual cortical plate:</i>	<i>1.1 mm</i>

36 region – pre extraction site



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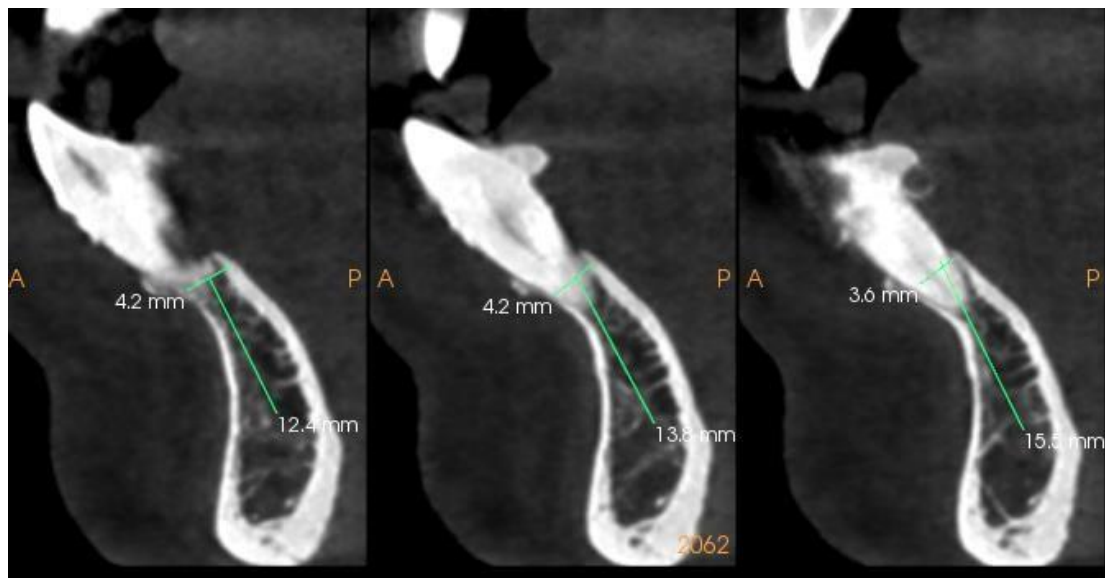
Implant Measurements -36

<i>Virtual Implant size:</i>	<i>Length- 10.0 mm & Width- 4.0mm</i>
<i>Width of Implant at the crest:</i>	<i>4.0mm</i>
<i>Distance of implant from IANC</i>	<i>3.4</i>
<i>Distance of Implant from the Labial cortical plate:</i>	<i>2.1mm</i>

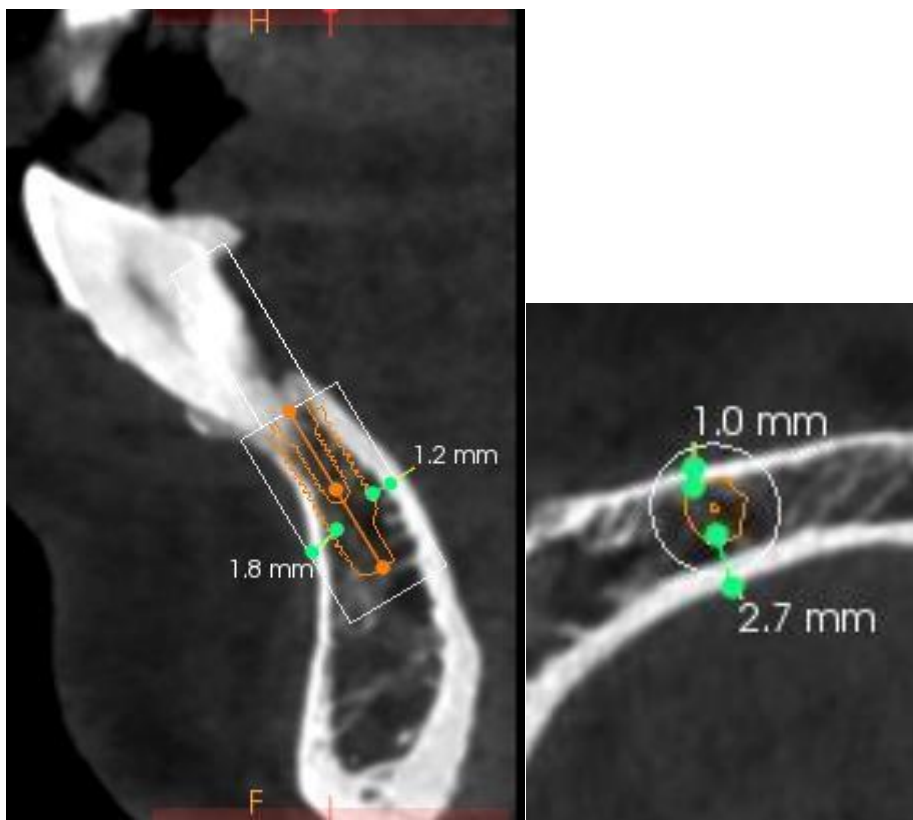
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<i>Distance of Implant from the lingual cortical plate:</i>	<i>2.1 mm</i>
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42 region – pre extraction site



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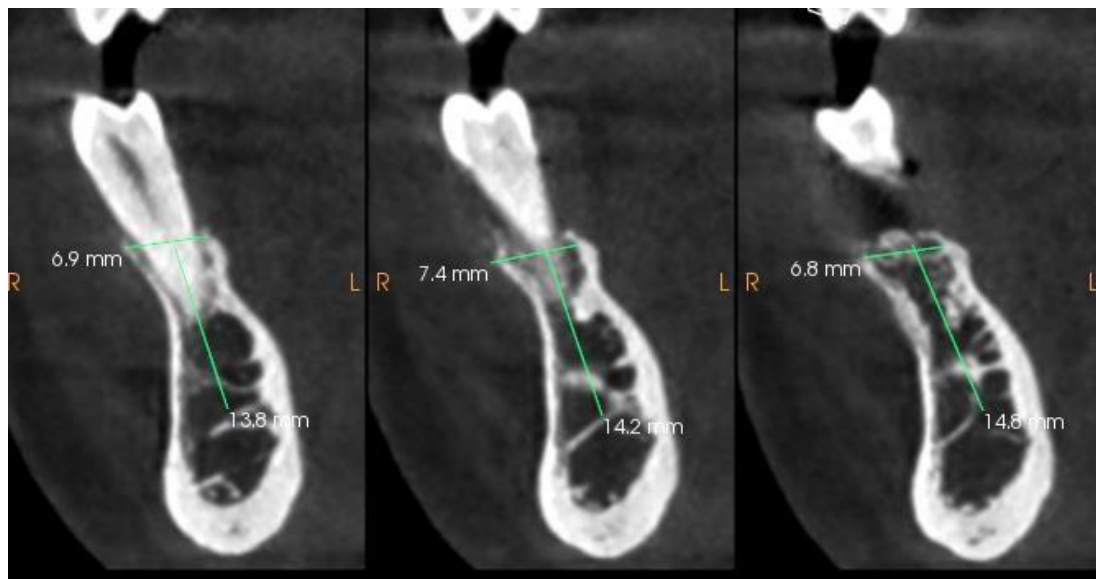
Implant Measurements -42

<i>Virtual Implant size:</i>	<i>Length- 10.0 mm & Width- 3.30mm</i>
<i>Width of Implant at the crest:</i>	<i>3.30mm</i>
<i>Distance of Implant from the Labial cortical plate:</i>	<i>1.8mm</i>
<i>Distance of Implant from the lingual</i>	<i>1.2mm</i>

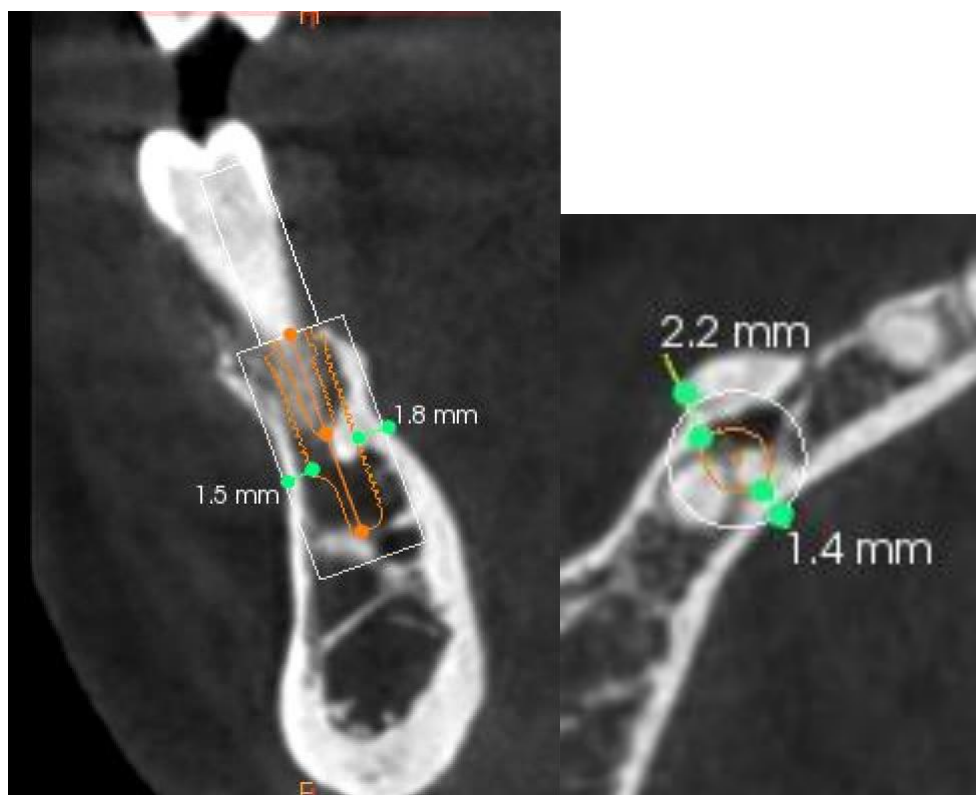
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cortical plate:

44 region – pre extraction site



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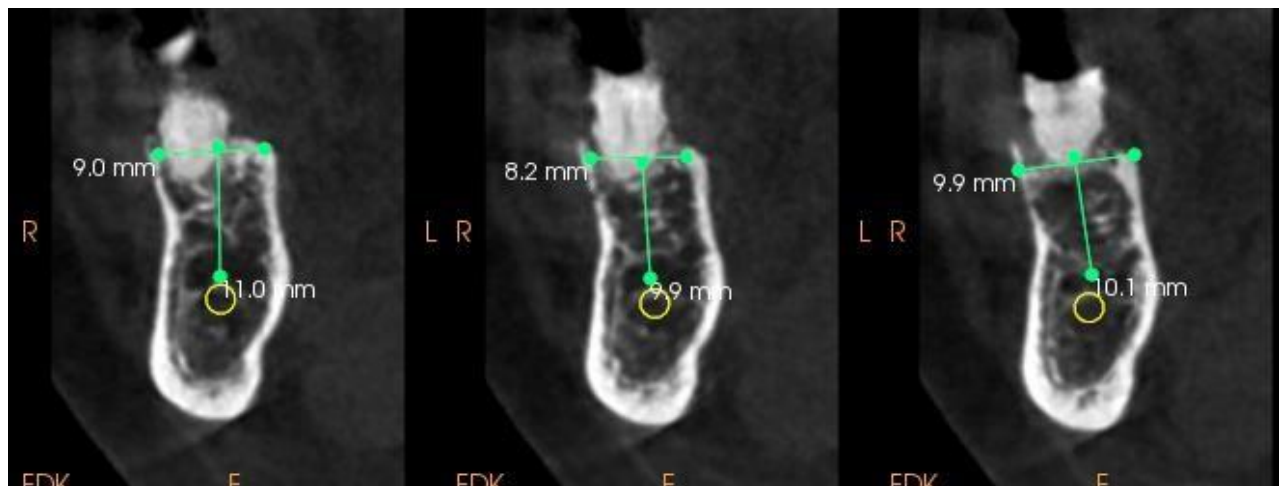


Implant Measurements -44

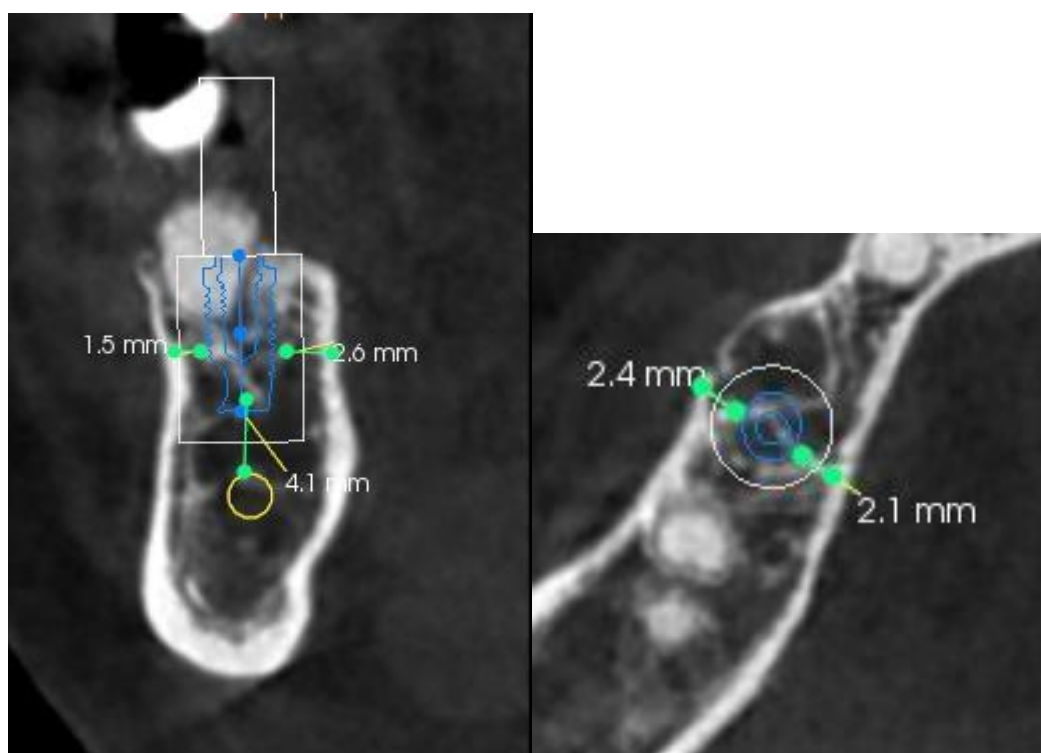
<i>Virtual Implant size:</i>	<i>Length- 11.5 mm & Width- 3.30mm</i>
<i>Width of Implant at the crest:</i>	<i>3.30mm</i>
<i>Distance of Implant from the Labial cortical plate:</i>	<i>1.5mm</i>
<i>Distance of Implant from the lingual</i>	<i>1.8mm</i>

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cortical plate:



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Implant Measurements -46	
<i>Virtual Implant size:</i>	<i>Length- 10.0 mm & Width- 4.0mm</i>
<i>Width of Implant at the crest:</i>	<i>4.0mm</i>
<i>Distance of implant from IANC</i>	<i>1.5</i>
<i>Distance of Implant from the Labial cortical plate:</i>	<i>4.1mm</i>

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<i>Distance of Implant from the lingual cortical plate:</i>	<i>2.6 mm</i>
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Dr Name and Digital Sign

BDS, MDS

Consultant Oral Physician & Maxillofacial Radiologist

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