

## Poster journal

### Introduction to Imaging in Dental Implants- A Road Map

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#### Commentary:

The use of Dental Implants to treat complete and partial edentulous spaces has become an integral treatment modality in restorative dentistry. The basis for planning up an implant placement depends upon a clinical examination of the patient and by radiological evaluation. The main objective of diagnostic imaging is to assess bone quality and quantity which serves as a basic foundation for placing an implant<sup>1</sup>. Diagnostic imaging is categorized into 3 phases: pre-prosthetic/pre-surgical implant imaging, surgical & interventional implant imaging, and post-prosthetic implant imaging. The imaging modalities range from analog which uses x-ray films to intensifying screens as receptors for visualization of images to digital and two-dimensional imaging which provides us information of the height and width of the bone in that region, tentatively<sup>2</sup>. Further, three-dimensional imaging helps us to assess not only height and width but also depth/thickness of the particular area<sup>3</sup>. So in the current era of imaging, the practitioner plans up the imaging modality accordingly which gives them complete information before implant placement. In this poster presentation, we present the different implant imaging modalities with advantages and disadvantages, so the dentists get a brief overview of the same.

#### References

1. Gulsahi A. Bone Quality Assessment for Dental Implants. *Implant Dent. - Most Promis. Discip. Dent., InTech*; 2011. <https://doi.org/10.5772/16588>.
2. Bourgeois MJ. RADIOLOGY: Pre-surgical Radiographic Imaging For the Placement of Dental Implants - Oral Health Group n.d. <https://www.oralhealthgroup.com/features/radiology-pre-surgical-radiographic-imaging-for-the-placement-of-dental-implants/> (accessed June 19, 2020).
3. Bornstein M, Scarfe W, Vaughn V, Jacobs R. Cone Beam Computed Tomography in Implant Dentistry: A Systematic Review Focusing on Guidelines, Indications, and Radiation Dose Risks. *Int J Oral Maxillofacial Implants* 2014;29:55-77. <https://doi.org/10.11607/jomi.2014suppl.g1.4>.

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