

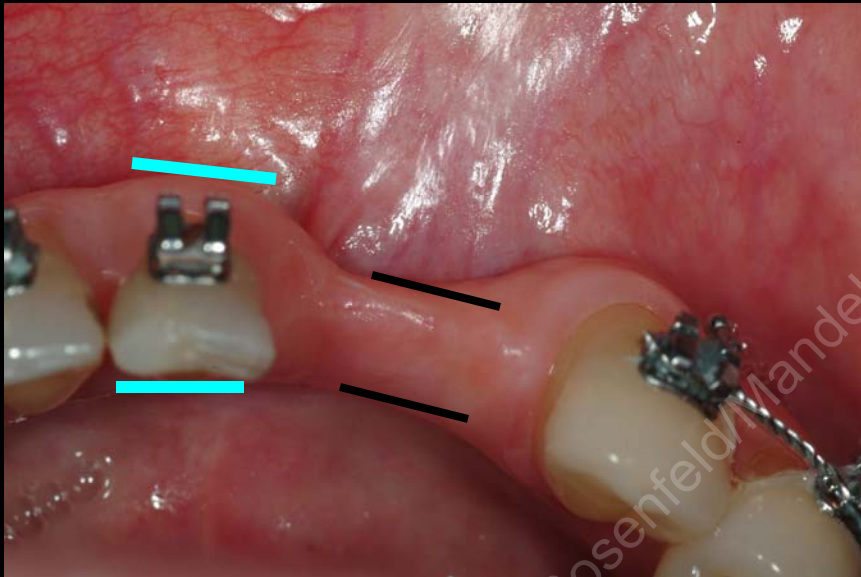
Guided Bone Regeneration/Lateral Ridge Augmentation

**Bone grafting for implant site development
(lateral ridge augmentation- growing bone width)**

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Guided Bone Regeneration. Lateral Ridge Augmentation via Bone Grafting To Prepare Deficient Area To Be Able To Receive Dental Implants

Pre bone grafting for lateral ridge augmentation



Pre bone grafting for lateral ridge augmentation – front view



- Implants planned for mandibular anterior missing teeth positions
- Inadequate bone width at these sites to accommodate the planned dental implants. Note the reduced/insufficient width of the ridge where teeth are missing (black lines) compared to the width where teeth are present (turquoise lines).

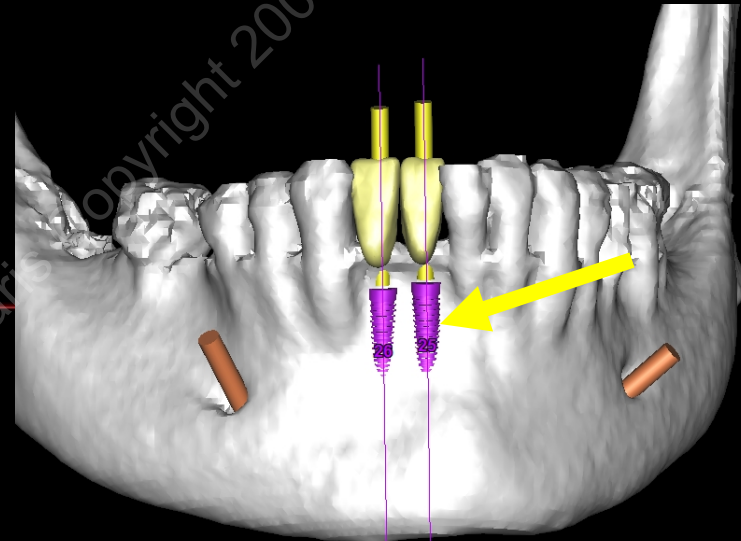
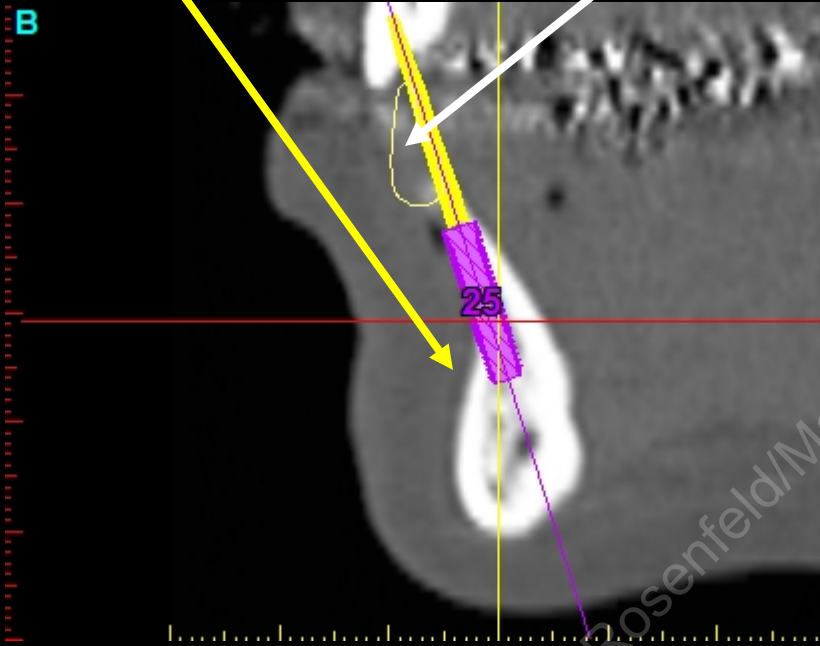
CT Scan technology

for diagnostic purposes & pre surgical anatomy examination

Patient's native bone

Tooth position planned

Virtual (3D) implant planning. **Bone graft needed.**
(yellow arrow here)

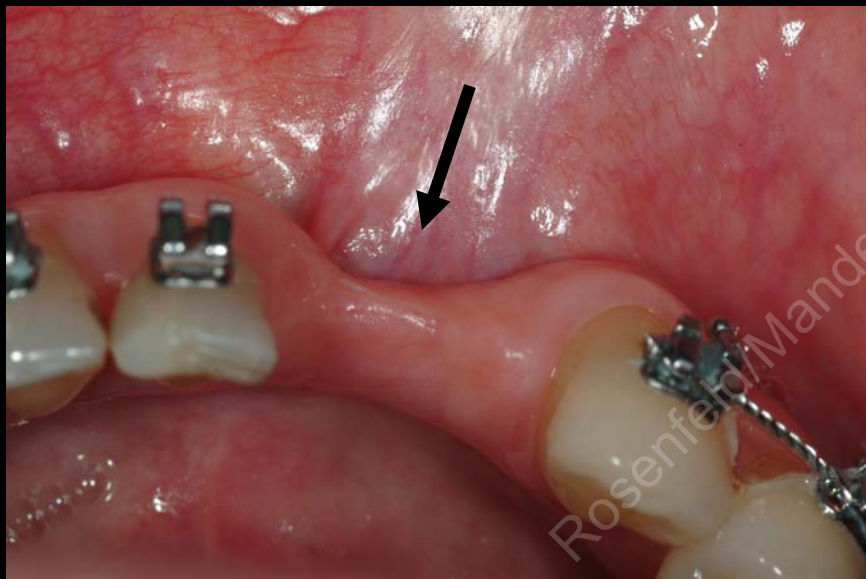


- Cross section view of the #25 position. Note the inadequate bone width to accommodate the planned dental implant at this position. Bone width is only sufficient at the bottom quarter of the implant.

- Three dimensional reconstruction demonstrating inadequate bone width. Implants do not have sufficient bone width to allow them to be positioned in the proper position to receive teeth.
- Bone grafting in indicated to create sufficient width to allow for implant placement.
- Position of nerves are highlighted in orange for safety in planning surgery.

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BEFORE



AFTER BONE GRAFT



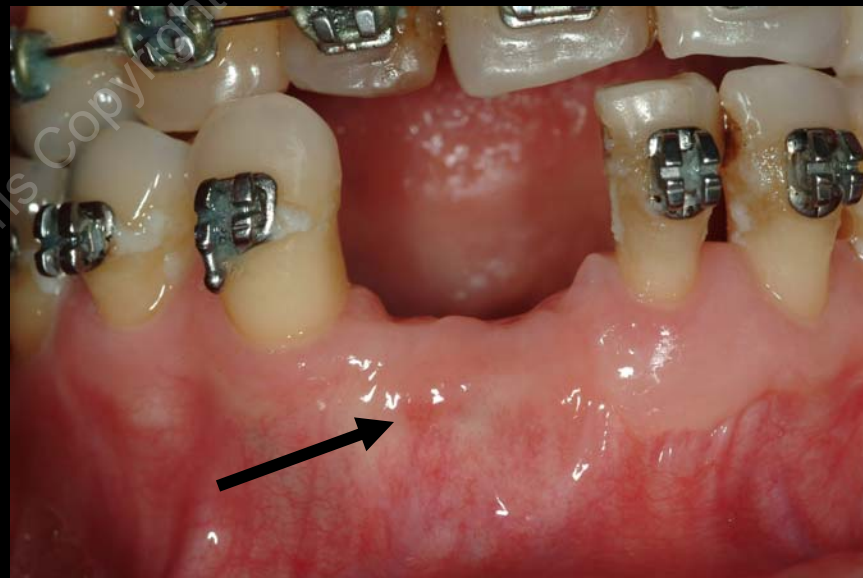
Note the significant gain in bone width achieved through the bone graft augmentation procedure. This area is now ready to have dental implants placed as the bone environment has been properly reconstructed.

Guided Bone Regeneration. Lateral Ridge Augmentation via Bone Grafting To Prepare Deficient Area To Be Able To Receive Dental Implants

BEFORE



AFTER BONE GRAFT



- Note the gain in overall volume achieved through the bone graft augmentation procedure.
- The soft tissue no longer appears to be compressed into the bony defect where teeth used to be. Now, the area appears convex as a result of reconstructed bone occupying the area and now ready to receive dental implants.