

“I can smile again!”

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Rubinoff Prosthodontics

Treatment for severe periodontal disease

INTRODUCTION:

Our patient is a 42 year old male with advanced bone loss around many teeth, especially around the upper and lower front teeth that are now very loose. Sadly, he has type one diabetes and he has been insulin dependant since childhood. Look at his front teeth (Fig 1& 2). The front teeth are flared out and no longer make contact. The upper and lower front teeth are loose and have lost most of their gum and bone support. **The movement of the teeth is called “Pathologic Migration”** because the teeth have drifted or been pushed away from their original position due to bite forces against teeth that have lost their bone and gum support.

Our patient has worn down his posterior teeth, lost bone support between is back teeth and has not responded well to previous attempts at periodontal surgery to stabilize his dentition.



Digital evaluation of aesthetic zone

Due to advanced bone loss around the front teeth, orthodontics cannot be used to gather together the splayed teeth. This treatment approach will fail.

Using a laboratory 3D digital scanner, the anterior space is filled pushing the teeth together and creating a stronger bite to help cut food as it enters the mouth.

Following the extraction of the upper and lower 8 front teeth, temporary upper and lower temporary dentures are made using a milling machine that creates the teeth in the same format as was created with the digital scanner. The final implant retained bridge-work will also follow the same design.

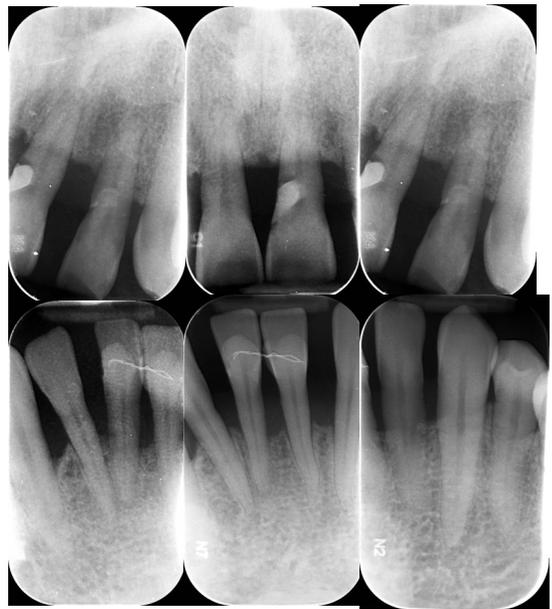


Partial Dentures



Restoration with dental implants:

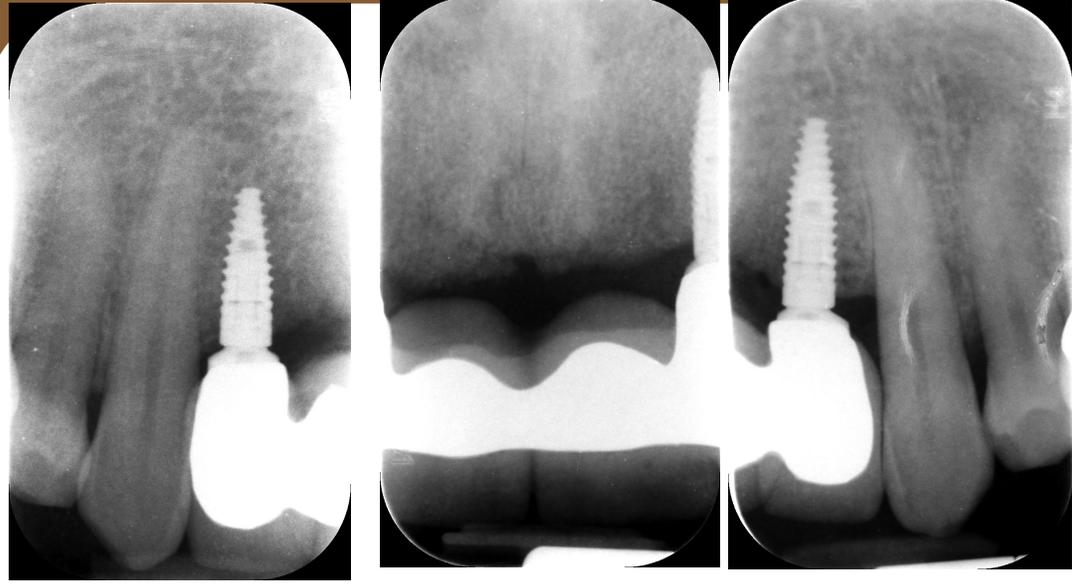
Radiographs illustrate the loose upper and lower anterior teeth with over 50% of bone lost around the teeth. Bone Level Tapered (BLT) Straumann implants were inserted and remained unattached to crowns for over 3 months while the implant sites healed. Upper and lower partial dentures were worn during the healing phase.



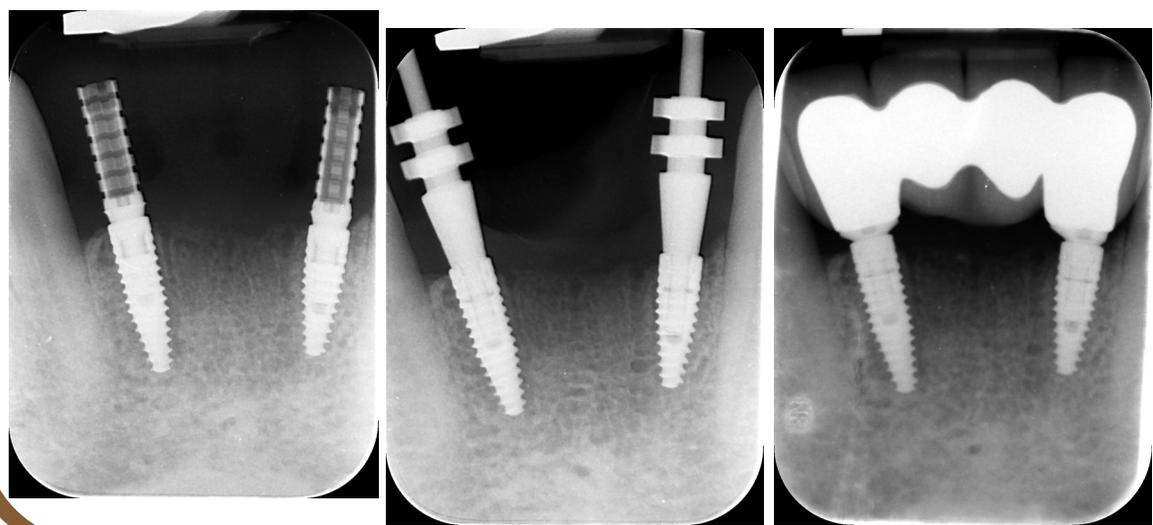
Delayed implant placement

Radiographs show four implants placed in the lateral incisor region of both the upper and the lower incisor region. Due to the potential for slow healing in the extraction sites, bone augmentation was completed in the tooth socket region. After three months, implants were placed (as seen on the left side)..

After implant placement, healing of the implant sites was for for 3 more implants while the patient continued to wear his temporary upper and lower partial dentures.



Two implants have been placed in the upper right and left lateral incisor region. A porcelain bonded to metal bridge has been screw retained to the two implants. Variobase implant abutments (shown below) are used to anchor the implant bridge to the two implants.



Lower and upper implants were attached to temporary titanium abutments (left photo) for a period of one month while tissues healed around temporary acrylic bridges.

Customized impression posts (middle photo) were inserted in order to take an accurate impression of the healing site.

Final bridge inserted made of a porcelain bonded to metal bridge is seen on the right side.



BEFORE



AFTER

