

**CASE 1**

**PATRICIA R , SITE 46**



# INITIAL PRESENTATION

- -dob. 19<sup>th</sup> June 1971
- -Medically fit and healthy, good periodontal condition, compliant patient
- -Chief complaint; “want to function and don’t want to be toothless at 40”



# EXTRA-ORAL EXAMINATION

- High smile line but 46 is not visible-low aesthetic risk
- Dental and facial midlines coincident
- Horizontal plane level with eye line
- Competent lip posture at rest
- Thin biotype





# SITE HISTORY

-June 2005 pfm on an old endodontically treated symptomless 46 to prevent possible fracture. Broken file noted in mesial root.

-9<sup>th</sup> jan2012 pain and swelling 46. 12<sup>th</sup> jan2012 attempt to re treat endodontically could not bypass file. Endodontic consult soon after, advised of poor prognosis.

- 4<sup>th</sup> feb2012 46 extracted.

Dental history; good oral hygiene, no periodontal issues parafunction noted, regular and compliant patient



# INTRA ORAL VIEW



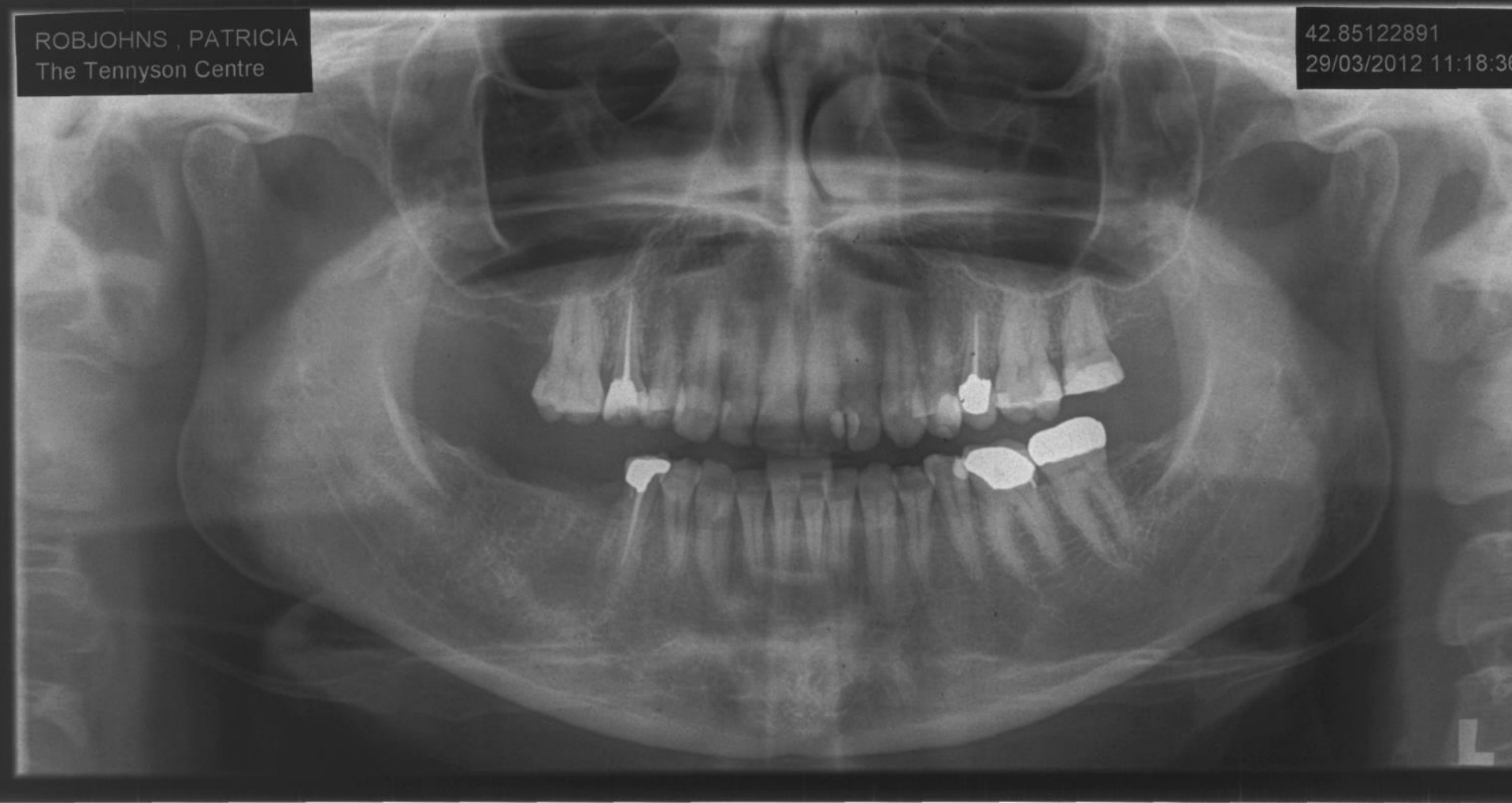
# INTRA ORAL EXAMINATION

- Multiple restorations
- Previous crowns in all 3 quadrants
- Oral hygiene reasonable
- Bruxer, clinical crowns worn quite flat
- Periodontal condition good
- 47 extracted 8 years ago as overerupted due to 17 extracted many years earlier

# OPG 6 WEEKS POST EXTRACTION

ROBJOHN, PATRICIA  
The Tennyson Centre

42.85122891  
29/03/2012 11:18:30



# TREATMENT OPTIONS

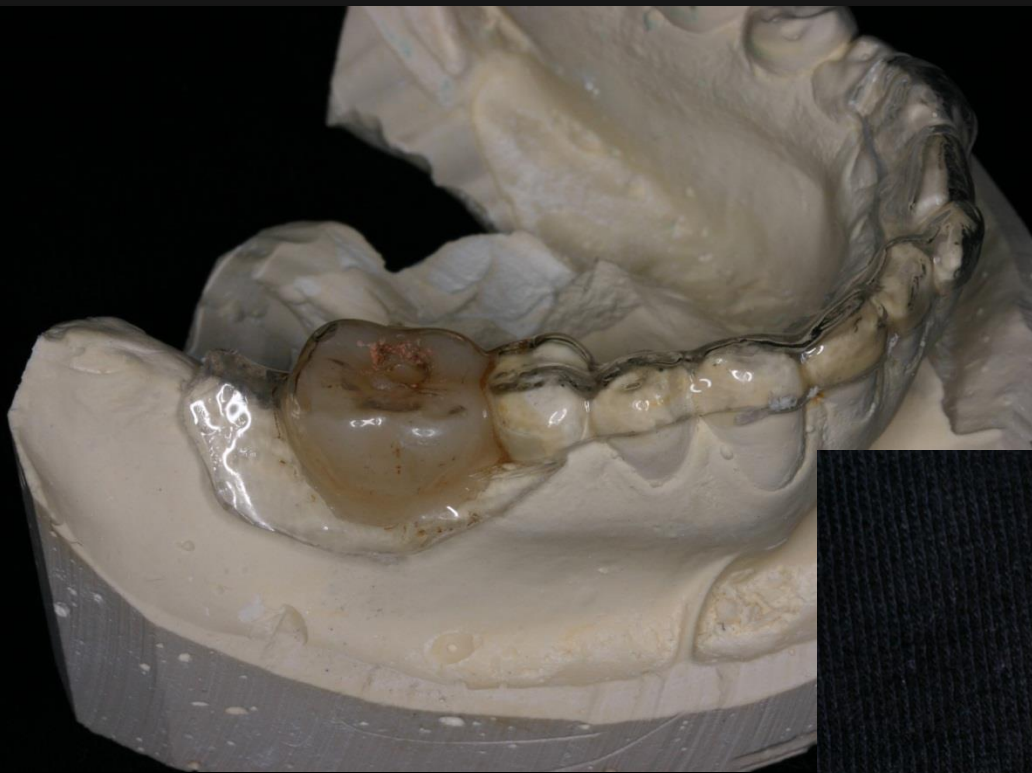
- Leaving edentulous, patient not interested as no 47 present and wants to function
  - Removable partial for one tooth, patient does not want a removable one tooth denture
  - Bridge not possible as no distal abutment tooth
  - Implant is the treatment of choice
-



# TREATMENT PLAN

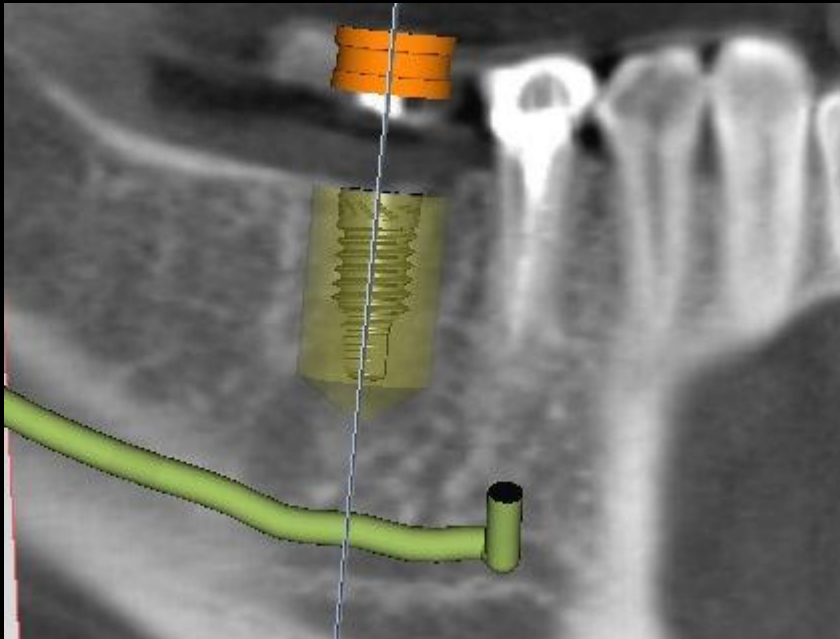
- Surgical/Radiographic guide needed to position head of implant, Cone Beam (CBVT) taken on 29<sup>th</sup> June with radiographic guide in place
- Plan for 5.0 osseospeed Astratech implant 11mm long, single stage surgery.
- Standard loading after 3 months
- Prosthetically limited OVD so screw retained crown planned followed by an occlusal splint

# RADIOGRAPHIC/SURGICAL GUIDE



# PLANNING ON NOBEL CLINICIAN

- 5.0x11mm Astra Osseospeed implant



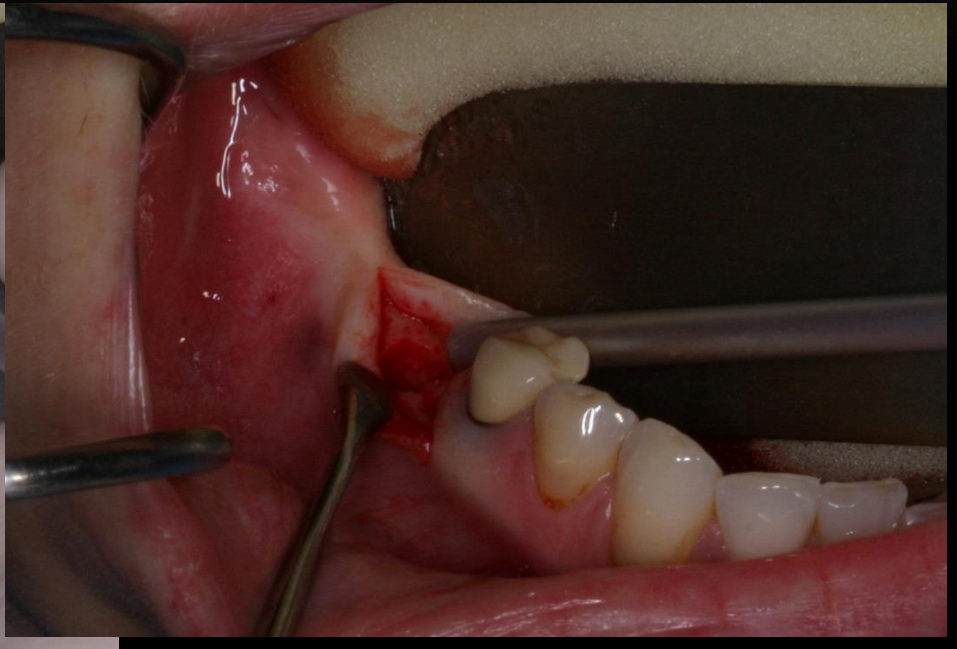
# SURGERY

- Surgery carried out under LA on 11<sup>th</sup> July
- Astratech Oosseospeed TX 5.0 x11mm placed and positioned according to the surgical guide
- Implant fully torqued to 35N/cm
- 6.5mm wide healing abutment placed and soft tissues sutured into position
- No temporary

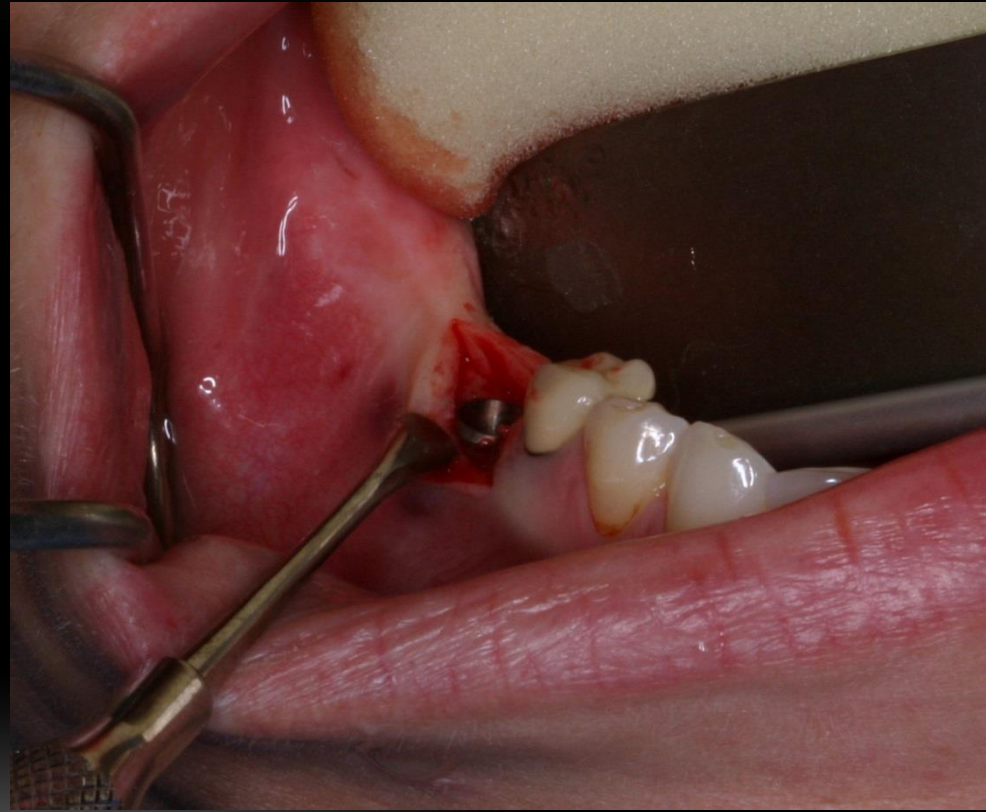
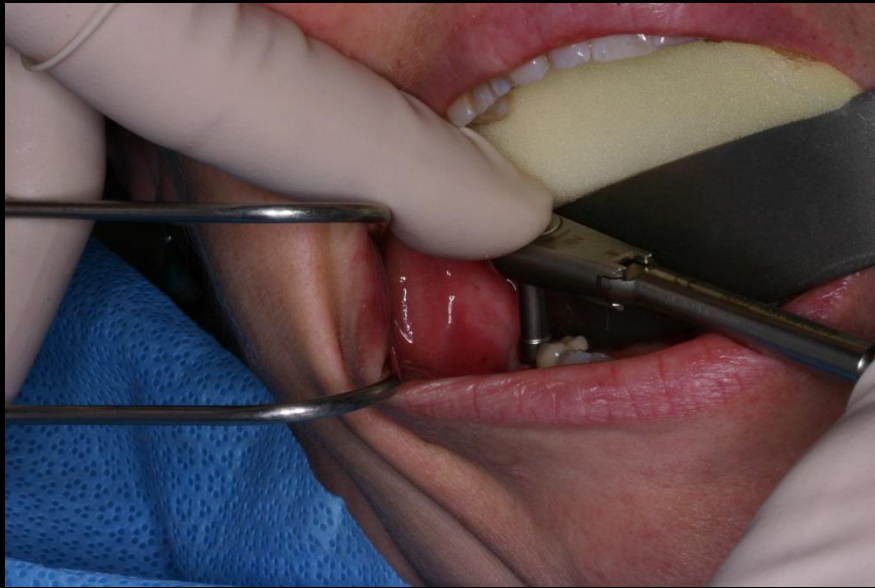




# SITE PREPARATION 46



# IMPLANT MANUALLY TORQUED INTO POSITION



# OPG POST-OP 10DAYS

OPG for impacted teeth, caries (57963)  
OPG  
Se: 20/07/2012 9:02:29 AM  
Acc #47.6235173  
Se: CR #1  
In: 1/1

Benson Radiology  
[ ROBJOHNS\*PATRICIA ]  
[ 19/06/1971 ]  
[ F ] [ 041Y ]  
[ 47.03729411 ]



1976x976  
Zoom: 43 %  
Compression: 10:1  
W: 4094 L: 2046

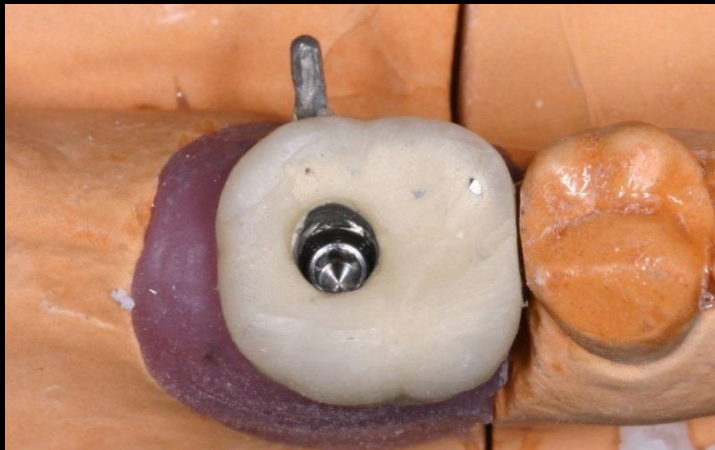
# PROSTHETIC STAGE

- Healing screw removed on 16<sup>th</sup> October
- Open tray impression, customised pickup.
- Cast Design 4.5/5.0 abutment selected, crown as one piece with the abutment, unglazed tried in and bite adjusted 2<sup>nd</sup> November.





# TRY IN OF UNGLAZED CROWN



# UNGLAZED ADJUSTED CROWN/ABUTMENT



# INSERTION OF FINAL CROWN DECEMBER 2012

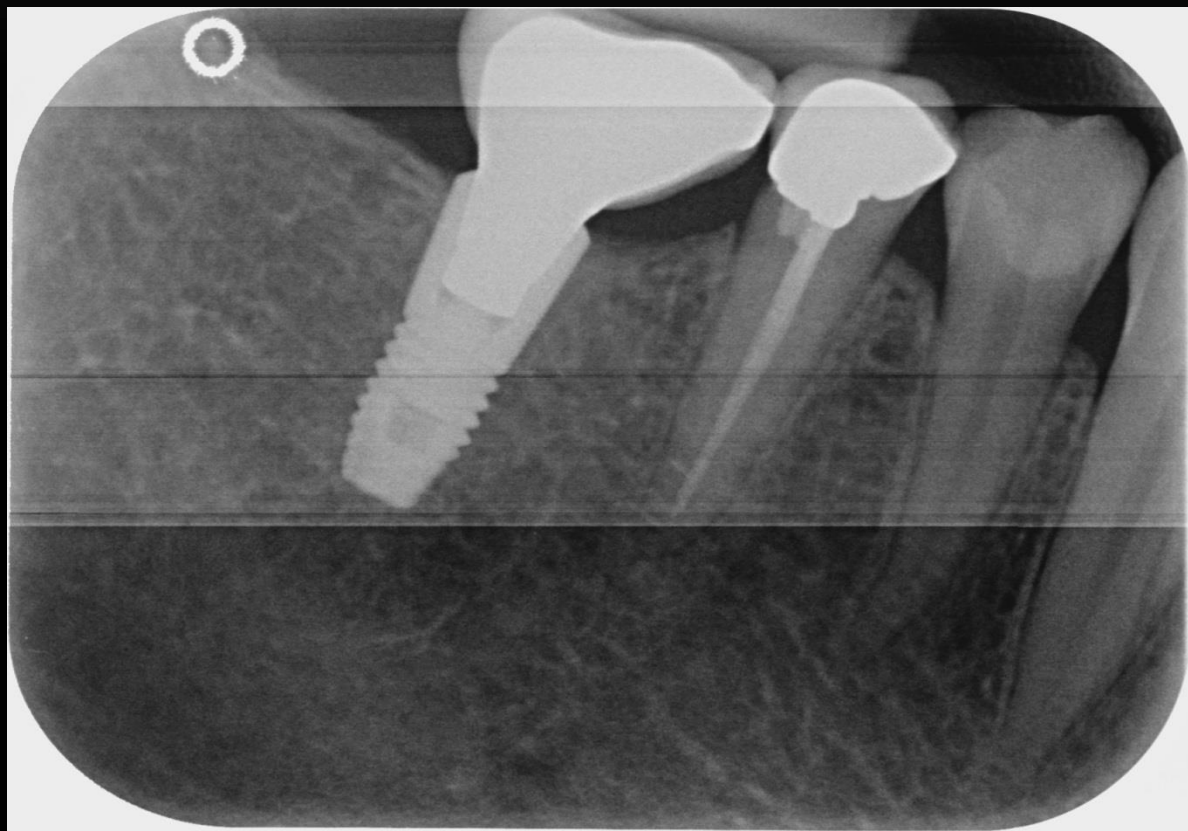


# FOLLOWING APPOINTMENTS

- Insert final restoration. Temp fill the access
- Constructed a night guard, 1 week later.
- Reviewed in 4 weeks check screw for loosening as consequence of parafunction.
- The screw was tight so I then filled the access with an opaque composite resin on top of teflon tape.



# RADIOGRAPH AT 3 MONTHS OF FUNCTION



# MAINTENANCE

- There is more treatment continuing in the remaining quadrants to address the bite and function
- Implant specific reviews every 6 months along with hygiene
- X-ray at 12 months to check bone level
- Hygiene appointments every 4 months in first year then 6 monthly