ethoss^{"Grow} Stronger^{*}_

Volume 4

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ations. It is the clinician's responsibility to follow the official guidance related to each of the products as produced by the relevant manufacturer and



Male 54 years old Non-smoker

Extraction tooth 36, usage of degranulation burs, EthOss (1 cc) and blue®m gel. After 2 monthsimplant placement + EthOss for vestibular volume (0,5 cc) and immediate crown.

Case from Dr Mikhail Murashov, Uzbekistan



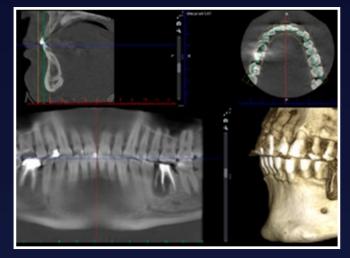
💳 Dr Mikhail Murashov



5. After extraction



1. CT scan before treatment



2. CT scan before treatment



3. Large bone defect



4. Initial situation



7. 1cc of EthOss® Bone Graft material placed into the defect



9. Healing after 1 week

2

Socket graft large defect augmentation



6. Roots fracture



8. Tension-free primary closure with monafilament, non-absorbable sutures. blue®m gel placed.



10. Bone volume after 2 months. Decision to place more EthOss.



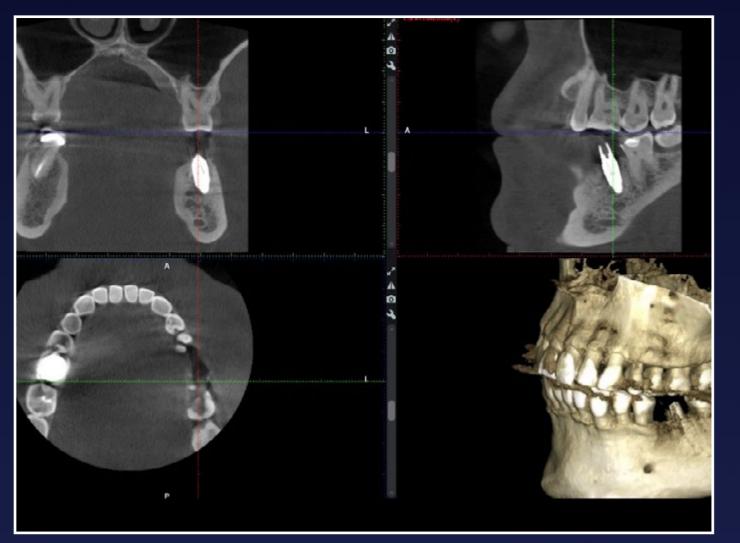




11. Soft tissue after 4 months



12. Crown



13. CT scan after treatment

GROW CONFIDENT





Female 63 years old Non smoker Fibromyalgia

Tooth UR3 (13) extracted due to root vertical fracture with periapical radiolucency (PARL). Challenging case as it is a tooth close to a dental implant, compromising the papilla. Clinically, it presented pain, bleeding and PD \geq 12mm.

Case from Dr Vanessa Suarez-Cordoba, Colombia



Dr Vanessa Suarez-Cordoba



5. Bone grafting of socket with 0.5cc EthOss® Bone Graft material



1. Preoperative Radiograph



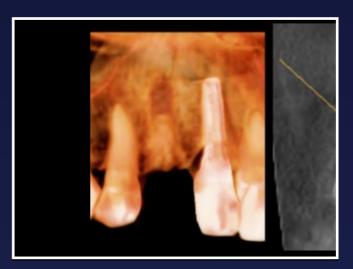
2. Initial clinical situation (a scar is observed at the level of the incisor due to previous surgery)



3. Atraumatic extraction



4. Curettage and socket management



7. Sutures

9. Post-operative CBCT showing integration of the bone grafting material

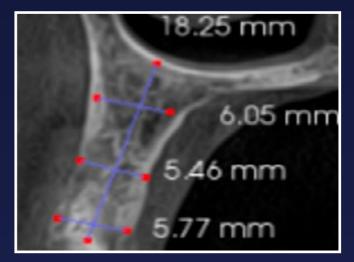
Socket grafting with delayed implant placement



6. Suture with nylon 5-0 and simple stitches



8. 1 Week post-surgery



10. Post-operative CBCT showing integration of the bone grafting material







11. Second phase surgery 12 weeks post-op



12. Occlusal view after minimal flap, preserving papilla near lateral incisor implant



13 Performing biopsy using trephine



14. 3.75x11.5 seven implant (MIS) placed with surgical guide



15. Suture closed



16. Uncovering surgery and placement of healing abutment



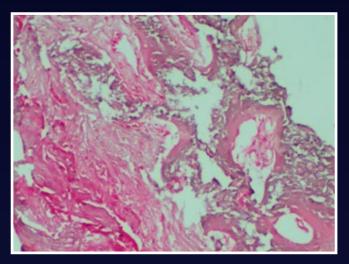
17. Uncovering surgery and placement of healing abutment



19. Soft tissue stability, wide keratinised gingiva



21. Radiograph - prior to fitting of permanent crown



18. Histological results showing new bone formation



20. Provisionalisation using the original dental crown



22. Crown and soft tissue stability



Female 75 years old Non-smoker

Extraction and immediate placement of a Southern co-axis implant UR1. Immediate temporisation.

Case from Dr Andrew Farr, United Kingdom



💥 Dr Andrew Farr



5. Depth gauge



1. Pre-op radiograph



2. Careful removal of UR1



3. Socket debridement



4. Southern Siguided surgical stent



7. Temporary cylinder with EthOss® Bone Graft material



9. Temporary crown and graft

03

Extraction and immediate tooth replacement therapy



6. Confirmation of scan body



8. Temporary crown immediate post surgery



10. Temporary crown 2 months post op with excellent gingival healing





Extraction and immediate tooth replacement therapy



11. Excellent gingival contour



12. Excellent gingival contour



13. Final crown



14. Final crown



15. Post operative PA

12



Male 68 years old Non-smoker

A patient with prior extensive treatments on the upper left central and lateral incisors required extraction due to vertical root fractures. Immediate implant placement and EthOss bone grafting were performed. Socket shielding preserved the buccal bone plate, supporting soft tissue stability and bone integration for lasting aesthetics.

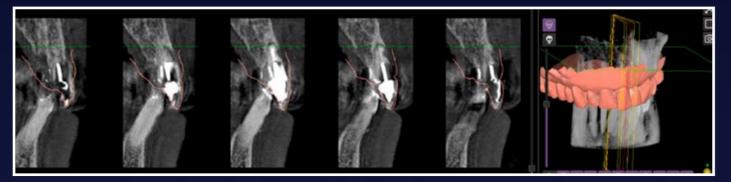
Case from Jakub Batycki, United Kingdom



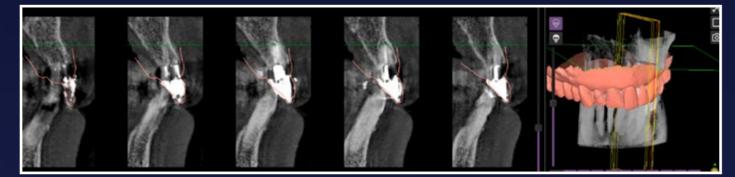
💥 Dr Jakub Batycki



3. Preoperative



1. CBCT - central incisor slice



2. CBCT - lateral incisor



5. Initial preparation



7. Placement of 12 degree internal angle correction implant into septum

Socket shield immediate cantilever bridge



4. Socket shielding outline



6. Socket preparation using EthOss degranulation burrs



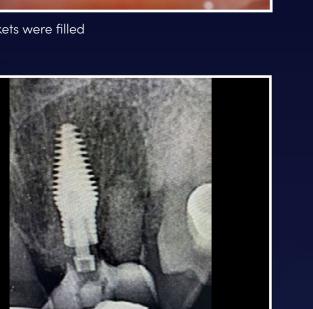
8. Socket was filled with 1cc of EthOss® bone graft material







9. Sockets were filled



11. Post operative PA radiograph



10. Temporary crown immediate post surgery



12. 12 weeks review



13. 12 weeks post operative PA radiograph



14. Fit of final restoration. 15 weeks post placement



15. PA radiograph 15 weeks post placement



17. 12 months review of implant



16. 12 months review



18. 12 month review occlusal view





Female 69 years old Non-smoker

Implant UL6, with buccal EthOss graft. Aim to avoid a sinus lift into a sloping sinus floor by utilising a co-axis design implant by Southern Implants.

Case from Dr Marcus Hooper, United Kingdom



💥 Dr Marcus Hooper



5. Short length of PDS suture placed for tenting



Pre-op radiograph showing healed site with low bone height



2. 2 sided flap, mesial release



3. Angled pin to check angle change



4. Implant placed showing eventual screw channel position.



7. Closure with Vicryl rapide



9. Final crown - occlusal

Buccal graft with tenting sutures



6. 0.5cc EthOss® Bone Graft material placed and set



8. Placement radiograph



10. Final crown - buccal





Buccal graft with tenting sutures



11. Final crown - Radiograph



12. Final crown - Extra oral image

GROW YOUR KNOWLEDGE



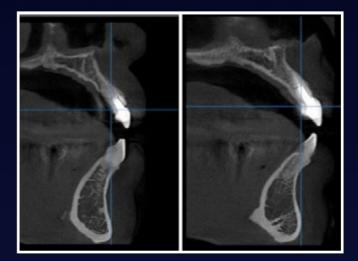
Female 40 years old Non-smoker

Type 2 implant placement with 2 implants support 4 unit bridge.

Case from Dr Parady Hour, Cambodia



🚾 Dr Parady Hour



5. CBCT



1. Failing bridge



2. After removing the bridge, the tooth is unrestorable



3. Occlusal view



4. PA radiograph

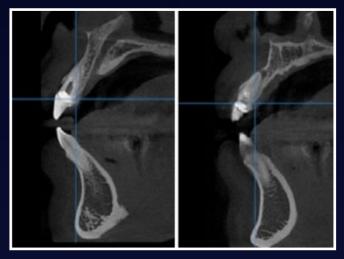


7. Extraction 12 and 22 and keep 11 and 21 as the temporary abutment



9. 12 implant placement with EthOss® Bone Graft material placement on the buccal defects

Staged extraction therapy for optimising anterior bridge



6. CBCT



8. 6 weeks time for implant placement



10. EthOss® Bone Graft material was used to cover the exposed implant threads







11. Suture flap



12. 10 weeks to do 2nd stage using rolling flap and EthOss socket grafting for extracted 11, 21



13. Temporary bridge



14. After some temporary adjustments, time for the impression



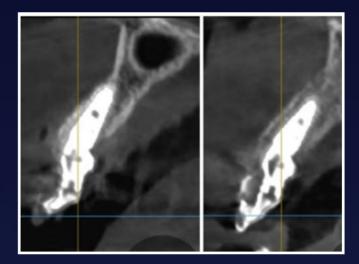
15. Mature soft tissue



16. Ridge form and pontic sights



17. Fit of definitive bridge



19. Thick buccal bone at the implant sites

Staged extraction therapy for optimising anterior bridge



18. Labial view definitive bridge



Failed implant placement and graft

PATIENT MEDICAL HISTORY

Female 58 years old Non-smoker

Peri-Implantitis, removal place and graft with EthOss and 4 years loaded. Reduced keratinised tissue but stable now.

Case from Dr Peter Fairbairn, United Kingdom



💥 Dr Peter Fairbairn



5. 5 weeks post explantation



1. Initial situation - implant placed 9 years ago, stable situation



2. 9 months later, implant displaying suppuration



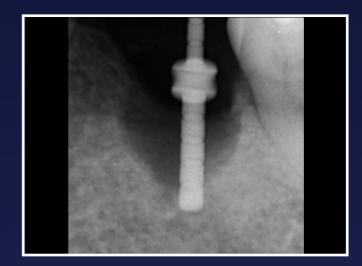
3. Radiograph shows bone loss beyond saving so decision to remove



4. Failed contaminated implant



7. Clean the site well and osteotomy



8. Checking

26

Failed implant placement and graft



6. Flap raised and papilla sparing



9. Placement of new implant and healing abutment





Failed implant placement and graft



10. Placement of EthOss® Bone Graft material



11. Radiograph displays stability



16. Radiograph at 4 years shows fully turned over to host bone



12. PTFE Sutures



13. Placement of blue®m gel



14. 11 weeks post surgery, crown loaded



15. Radiograph at 6 months displays great bone regeneration

28

Failed implant placement and graft



17. Loaded at 4 years



Male 43 years old Non-smoker

Bone augumentation, sinus lift crestal approach, simultaneously implant placement.

Case from Dr Sebastian Baka, Poland



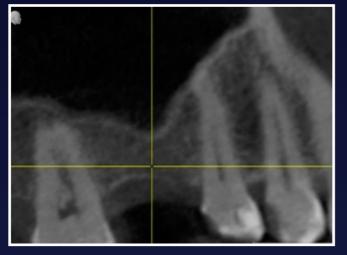
Dr Sebastian Baka



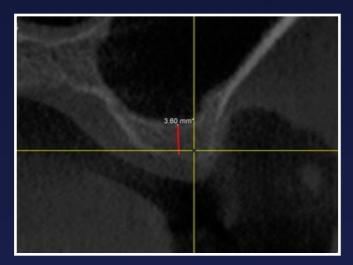
5. Sinus augmentation with EthOss® Bone Graft material



1. Initial situation



2. CBCT sagittal view



3. CBCT transsection view



4. CBCT occlusal view

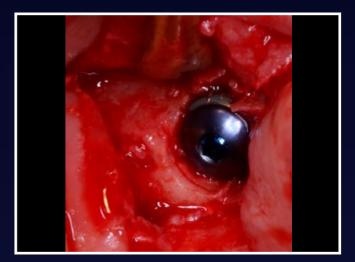


7. Immediate post placement - RVG implant



9. Soft tissue management roll flap tech

08



6. Implant placement



8. Soft tissue management roll flap tech



10. Soft tissue management roll flap tech







11. Screw retained crown prior to fitting



12. Implant loading, 4 months after implant placement - e.max screw retained crown



13. RVG Implant loading - 4 months after implant placement - e.max screw retained crown



14. Final result 2 months after implant loading



15. Final result 2 months after implant loading

32



GROW STRONGER

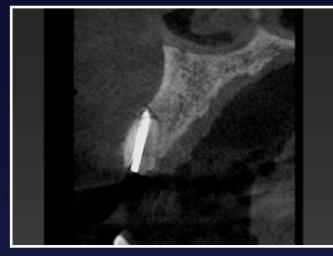


Male 50 years old Non smoker

Coronal fracture necessitated extraction, and the case was managed with early implant placement followed by conventional loading.

Early implant placement offers several benefits, such as complete gingival healing, which allows for primary tissue closure. This helps maintain graft integrity and reduces the risk of exposure.

Case from Dr Maria Paula Herrera, Colombia



1. CBCT initial



3. Flap elevation, removal of granulation tissue



Dr Maria Paula Herrera



5. Graft with 0.5cc EthOss® Bone Graft material



2. CBCT digital planning



4. Placement of Straumann BLT implant, primary stability with torque of 30 newtons



The surgery is completed immediately, followed by provisionalisation with a removable prosthesis



9. Final crown, keratinised tissue and adequate papillary filling are observed

Immediate placement delayed load



6. Connective tissue in order to improve aesthetic conditions subsequent to dental extraction



8. Control radiograph 1 month after implant placement



10. Radiograph at the final delivery of the restoration





Female 50 years old Non-smoker

10

Immediate placement and loading of a cracked central incisor in combination with EthOss, utilising both a wet and dry / solid mix of the material

Case from Dr Willem Baas, Netherlands



📕 Dr Willem Baas



Further EthOss placed in the jumping gap 5.



1. Initial situation



2. Tooth removed and site degranulated thoroughly



3. First tranche of EthOss® Bone Graft material placed



4. Implant placement



7. PEEK abutment fitted



9. Provisional curing

36

Immediate placement and loading of a cracked central incisor



6. Occlusal view of situation



8. Flow composite applied to create temporary crown



10. Checking for fitment







11. Provisional fixed in place



12. OPG of initial cracked root

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13. Directly after implantation with provisional crown



Socket graft with delayed placement

PATIENT MEDICAL HISTORY

Male 56 years old Non-smoker

Extensive buccal root caries with abscess. Extraction with socket grafting with EthOss. Later implant supported restoration.

Case from Dr Ganesh Nayak, United Arab Emirates



📕 Dr Ganesh Nayak



1. Buccal root caries



2. Radiograph after extraction



3 Socket after extraction



4. Socket with EthOss® bone graft material



5. Socket closed with hemocollagen plug and stabilised with sutures



7. After three weeks



9. Panoromic radiograph

Socket graft with delayed placement



6. Radiograph after socket grafting with EthOss



8. Occlusal view



10. After seven months







After 7 months with initial drill good integration of the EthOss seen



12. Radiograph with implant placement



17. Radiograph of the implant crown



13. Implant placed



14. Healing collar removed



15. Screw retained implant crown



16. Implant buccal view with good ridge contour





Female 35 years old Non-smoker

The patient with stage III grade C periodontal disease underwent non-surgical management. Her UR1 was extracted and replaced with a 3.6 x 13mm implant and immediate restoration. GBR with EthOss and a mid-palate graft were done. The final restoration used an Atlantis abutment and zirconia crown, with a photo at 18 months.

Case from Dr Nigel Suggett, United Kingdom



💥 Dr Nigel Suggett



5. Driver in implant; placing it in the socket's mesial wall corrected tooth drift



1. First visit showed periodontal disease, which we addressed via non-surgical management



2. Visible high lip line. UR1 has drifted and is sitting over the lower lip. The tooth is mobile



3. The tooth was removed with as little soft tissue trauma as possible



4. Implant placed immediately with good primary stability in the socket's mesial palatal wall



7. Tissue graft sutured, cover screw placed to allow graft material addition in jump space



Connective tissue graft in place to reduce future 9. recession and support the papillae

12

EthOss with graft for immediate replacement



6. Subepithelial connective tissue graft harvested from mid-palate and de-epithelialized in situ



8. EthOss® Bone Graft material placed



10. Used patient's own tooth as the immediate restoration





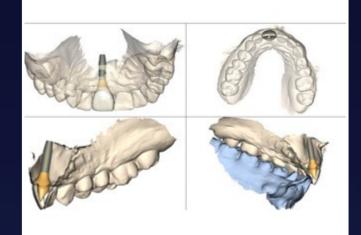
EthOss with graft for immediate replacement



11. A subcritical contour concavity is essential for blood clotting and connective tissue graft support



12. The temporary restoration was taken out of occlusion



 Intra-oral scan records 3 months post surgery. Atlantis abutment was prescribed



14. First crown placed. Staining removed from cavitated UR2, followed by composite restoration



15. 18 months review. All is stable



ethOss^{Grow} Stronger_

16. Radiograph at 18 months review



Female Non-smoker 42 years old

Lost lower molar led to drifting teeth. Orthodontics, bone grafting, and implant placement restored function, with zirconia crown placed after 18 months.

Case from Stefan Anca, Romania



Dr Stefan Anca



1. Combined bone and gingiva deficiency



2. The bone is narrow and whitish - old healed bone



3. Corticotomy by bur to refresh the bone



4. EthOss® Bone Graft material used for minimal bone refresh & improvement with a minimally invasive procedure



5. The flap suture without periosteal releasing 1 mm exposed graft



7. CBCT



9. Bone width improved; EthOss resorbed and replaced by host bone

13

Two stage graft and implant placement



6. CBCT



8. Implant surgery after one year showing improved gingival and bony contour



10. Subcrestal implant placing







11. Second EthOss graft for further ridge enhancement



13. Implant uncovered after 7 months, providing the right space for a first mandibular molar



12. Again no releasing incision needed to close the flap



14. Bucally displaced flap. Implant hidden under bone, with EthOss replaced by host bone



15. Burs used to expose implant



16. A premilled PMMA shell fits on a temporary abutment



17. Coronally repositioned flap to further increase the quantity of keratinised tissue



19. The beautiful emergence profile is evident; compare with the first picture to see the difference



21. Follow-up after 18 months

Two stage graft and implant placement



18. The healing after 1 month



20. The final full zirconia screw retained crown was made



Male 59 years old Non smoker

Patient with poor prognosis of upper right molars, history of periodontal disease, advanced bone loss.

Treatment is proposed with individual crowns on implants. Management plan involves extraction of molars, after 4 weeks placement of 3 implants with sinus elevation and bone regeneration.

Case from Angela Lucia Solano Britto, Colombia



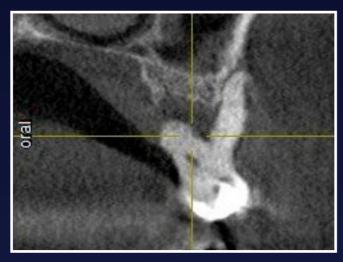
Dr Angela Lucia Solano Britto



5. 1cc of EthOss® Bone Graft material placed in zone



1. CBCT initial



2. CBCT initial zone 26



3. CBCT zone 27



4. Lateral window with implants in position



Flap elevation for impression taking - new bone tissue is observed



9. One year follow up radiograph





6. Another view of the use of EthOss as a bone regeneration material



8. Crown making process



Male Non-smoker 55 years old

15

Fractured root extracted, degranulated and Megagen 4x10mm placed into wet mix, then drier mix added. Nice protocol for managing large walled defect.

Case from Dr Stuart Kilner, United Kingdom



Dr Stuart Kilner



1. Fracture root underneath soft tissue



2. Radiograph



3. Papilla sparing flap exposing root



4. Direction indicator radiograph



5. No driling required. XLA socket and 4.8 direction indicator



7. EthOss® Bone Graft material and implant placed with no primary stability



9. EthOss bone graft material added



6. Implant



8. Radiograph



10. More EthOss Bone Graft added but not overgrafted for easier primary closure





11. Sutured



12. Good keratinised tissue at review



17. Crown fitted



13. Ready to load



14. blue®m gel placed



15. Crown ready to place



16. Crown placed and excess blue®m

EthOss graft and implant push in placement



18. Radiograph – crown fitted



Female 62 years old Non-smoker

After clinical evaluation, compromised teeth are extracted. Upper arch implants and grafting with EthOss after 4 months; lower arch implants are immediate. After 4 months, digital impressions enable fixed arches on 7 upper, 4 lower implants.

Case from Dr Dario Tuscano, Italy



Dr Dario Tuscano



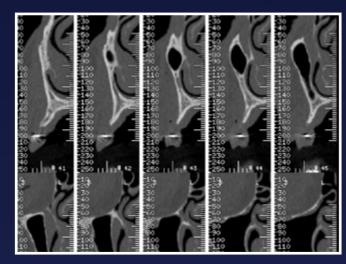
5. Flap elevation and preparation of implant sites with bone expansion with Versah drills



1. Labial photo



2. Panoramic radiograph



3. CT scan section



4. Soft tissue healing 4 months after extractions



7. Sutures



9. Lower arch



6. Implants inserted and 2cc of EthOss® Bone Graft material placed



8. Soft tissue healing in 4 months



10. Lower extractions and flap elevation



Full arch delayed load with large EthOss graft



11. Implant insertion



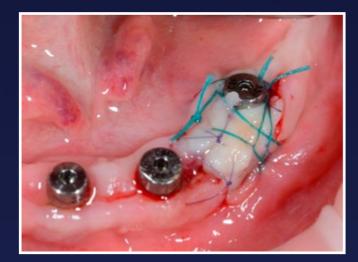
12. Filling bone defects with 2cc of EthOss and waiting for the right hardening time



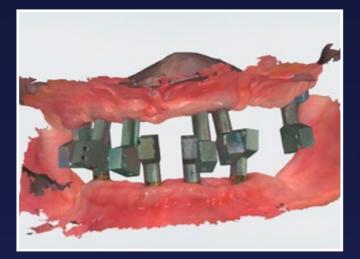
13. Suture



14. Healing in 4 months



15. Soft tissue graft from the tuber to improve the mucosa on the lower left implant



16. Digital impression



17. Trying of the milled titanium frameworks - lower arch and shows soft tissue healing



19. Panoramic control radiograph at 18 months



18. Proof of the milled titanium frameworks - upper arch and shows soft tissue healing



20. Final smile of the patient



Male 70 years old Non smoker

UL1 immediate tooth replacement therapy with concurrent repair of an incisal foramen bony defect.

Case from Dr Dominic O'Hooley, United Kingdom



Dr Dominic O'Hooley



1. Preoperative situation



2. CBCT view showing preoperative situation. Sagittal view



3. CBCT preoperative view of fenestration between the incisive foramen and the socket. Transverse view



4. View of degranulation of the upper left incisor socket and fenestration of the incisive foramen



5. View of the degranulated upper left incisor socket and fenestration of the incisive foramen



7. Occlusal view showing implant with healing abutment and circumferential jumping gap



9. Occlusal view of shell crown on PEEK cylinder before pick-up finishing



6. Frontal view showing placement of implant



8. View of bone augmentation in circumferential gap and incisive foramen



10. Frontal view of the provisional crown after screw retention to the implant at 15ncm





11. CBCT transverse view showing implant and graft in gap and foramen



12. Frontal view at the time of definitive crown fit



17. Frontal and occlusal views of clinical tissues at 60 months post-surgery



13. Occlusal view at the time of definitive crown fit



14. Radiograph at the time of definitive crown fit



15. CBCT scan showing the upper left central incisor and bony ridge at 60 months post-surgery. Sagittal view.



16. CBCT transverse view showing intact foramen wall, mature bone, and cortical ridges around the upper left central incisor implant at 60 months



18. Occlusal view showing hard and soft tissues at 60 months post-surgery



With special thanks to all our contributors

Dr Andrew Farr

- Dr Angela Lucia Solano Britto
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- Dr Mikhail Murashov
- Dr Nigel Suggett
- Dr Parady Hour
- Dr Peter Fairbairn
- Dr Sebastian Baka
- Dr Stefan Anca
- Dr Stuart Kilner
- Dr Vanessa Suarez-Cordoba
- Dr Willem Bass

If you would like to be involved in the next International EthOss Case Study Book please send your cases to

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For further information on the case studies from this book or to enquire about EthOss bone graft material, please contact our team:

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