ethoss Grow Stronger_

Volume 1

UI S て J

Foreword

I first started to experiment with mixing different materials as far back as 2001. My goal was always to create a graft with built-in stability, removing the need for a traditional collagen membrane. It has been a long road to get to the stage we are at today where EthOss is available in over 50 countries globally.

This concept of stabilising the graft itself, hence optimising the benefits regenerative effects of the periosteum, came from a philosophy "The body wants to heal - let's work with it" and this has been the basis of my last 20 years of both clinical and research work.

The protocol used routinely to optimise the outcomes has been developed over the years with myself having done over 6,500 successful grafts and resulted in the publication of a 10 year study in 2015 with my great friend and colleague Dr Minas Leventis. After working with a number of other companies on these concepts, I decided that the best way to move forward was to develop my own material, from a clinicians direction. This is important as EthOss was developed to fit the way I liked to work clinically, not the other way around.

We are still always learning and refining techniques and it is critical to learn from all our colleagues. This book is a great example of this, showing a range of different techniques utilising the regenerative capabilities of EthOss. We are all working towards the same thing – a common goal of improved regenerative outcomes with a minimal, ethical approach, for both us as dentists and our patients who we care for.

Enjoy this book which is about our work, all of us.

Regards
Dr Peter Fairbairn, Clinical Director



EthOss Regeneration Ltd 8 Ryefield Court, Ryefield Way Silsden, West Yorkshire BD20 0DL UK +44 (0)1535 843106 info@ethoss.dental www.ethoss.dental

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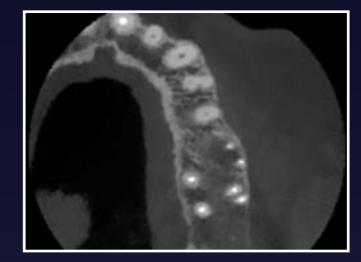
Female 63 years old Non-smoker

Occasional mild pain, chronic inflammation under buccal roots

Case from Dr Rainer Rannula, Tallinn, Estonia



Dr Rainer Rannula



5. Occlusal view CBCT



6. Occlusal view CBCT



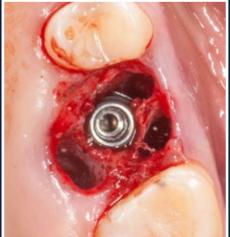
1. Initial situation before extraction



2. Initial situation before extraction



7. Post extraction. The alveolar sockets are degranulated



8. Implant placed



Socket grafted with EthOss bone graft material



3. Radiograph showing initial situation



4. Inflammation under buccal roots and reaction of sinus membrane can be seen



10. EthOss
covered by
collagen
fleece and
healing cap
fitted



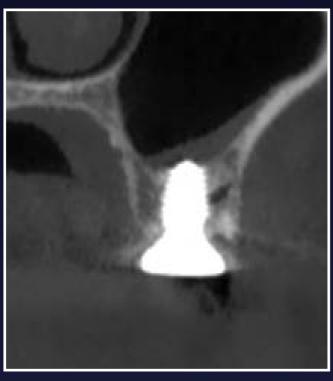
11. Couple of sutures to adapt marginal gingiva



12. Intraoral radiograph after implantation



14. Occlusal view CBCT



13. Sectional view CBCT



15. CBCT

RESULTS



16. 3 months post surgery – excellent soft tissue healing



18. E-max crown is fitted



20. Intraoral radiograph after crown placement



17. 3 months post surgery



19. 3 months post surgery



Return to contents

Male 45 years old Non-smoker

Incidental finding of periodontal pocketing and bone loss distal LL7 aspect on OPT

Referring GDP feared implant replacement would not be possible due to extensive bone loss

Case from Dr Jonathan Cochrane, Bristol, UK



Dr Jonathan Cochrane



4. LL7 post extraction - problem is now visible



5. Extraction socket prior to degranulation



6

1. Panoramic radiograph showing defect



6. EthOss bone graft material is placed and dried with a sterile gauze for 5 minutes



7. Flap released and sutured shut



2. No visible problems



3. No visible problems



8. Radiograph showing 10 weeks post-op



9. Healthy soft tissue and very wide ridge



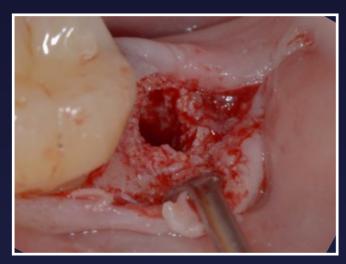
10. Flap raised showing new host regenerated bone



11. Radiograph prior to implant placement



16. Healthy soft tissue maturation



12. D4 quality bone formation



13. 4.8mm diameter Astra EV implant is placed



17. Zirconia crown in place



14. Sutured closed with vicryl. Note new (buccal) keratinised tissue formation



15. 10 weeks further healing

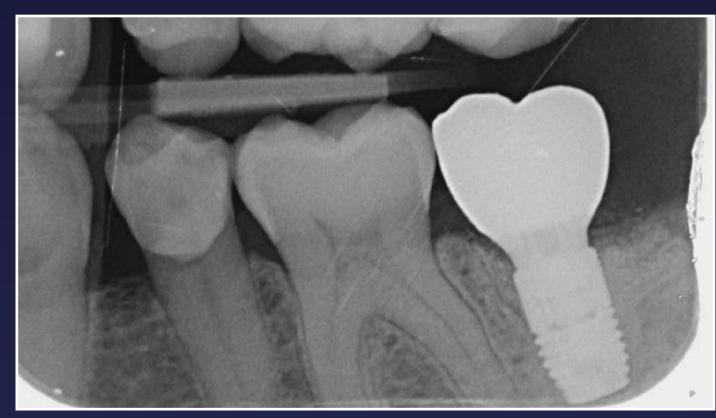


18. Happy with the outcome

RESULTS



1. Final PA showing excellent results



2. 1 year recall showing bone levels maintained

GROW SIRONGER

Female 41 years old

Failed root canal therapy UR1

Endodontic retreatment carried out twice by specialist endodontist to no avail

Dr Mark Worthing, Hereford, UK



Dr Mark Worthing



2. Pre-op occlusal view



3. Pre-op



4. Decoronation



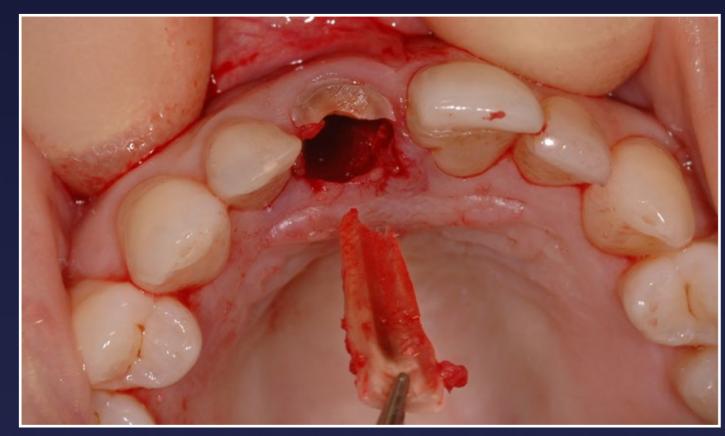
5. Check radiograph for partial extraction therapy



6. Partial extraction therapy preparation



7. Partial extraction therapy



8. Partial extraction therapy



9. Fixture placement INVERTA by Southern Implants



10. Fixture placement INVERTA by Southern Implants



11. Fixture placement INVERTA by Southern Implants



12. EthOss in jump gap



13. EthOss is placed



14. Additional EthOss is placed



15. Fixture placement INVERTA by Southern Implants



16. Silicone key to assess for screw emergence



17. Immediate restoration



18. Immediate restoration



19. Immediate restoration



20. Final crown

21. Final crown



22. Restored



Female 58 years old Non smoker, non diabetic

Case referred from endodontist

LR7 had a poor prognosis due to fracture in MB root

Case from Dr Peter Fairbairn, London, UK



Dr Peter Fairbairn

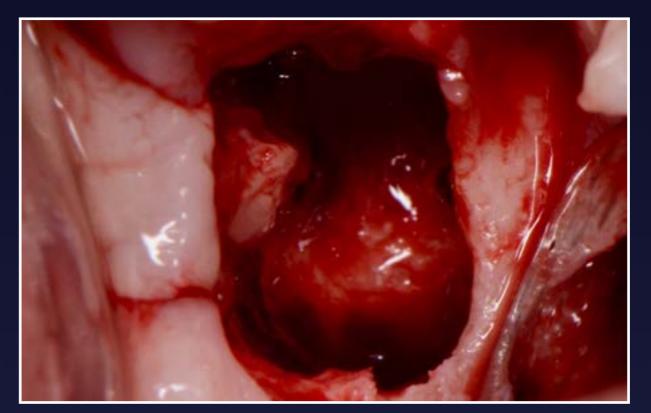


 Referred to Endodontist but was advised of poor prognosis due to fracture in MB root

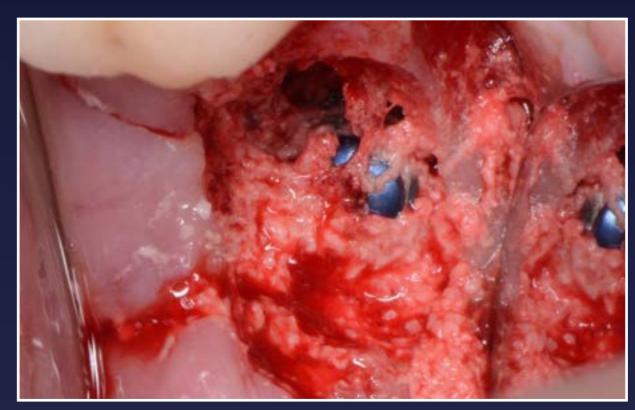


2. Tooth removed and left to heal for 3 weeks

20



3. Three weeks following extraction – large defect visible, consideration over the size of implant to choose



4. Due to nature of site decided to place EthOss and then push a 5mm by 8.5mm AnyRidge implant directly into the graft with no primary stability or bone to implant contact.

Graft material was allowed to set whilst implant was held in place with cover screw driver



5. Implant pushed into the EthOss



6. Second, drier mix over the top



7. Sutured closed PFTE 3.0



8. Radiograph at placement



10. 1 week post-op, sutures to be removed



9. Radiograph 1 week post-op, great result



12. 10 weeks later implant is ready to load



11. Excellent soft tissue healing



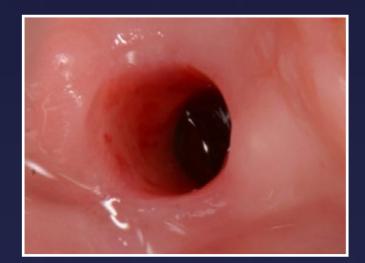
13. Flap raised to show the new host regenerated bone



14. Bone removal by round bur to access the implant



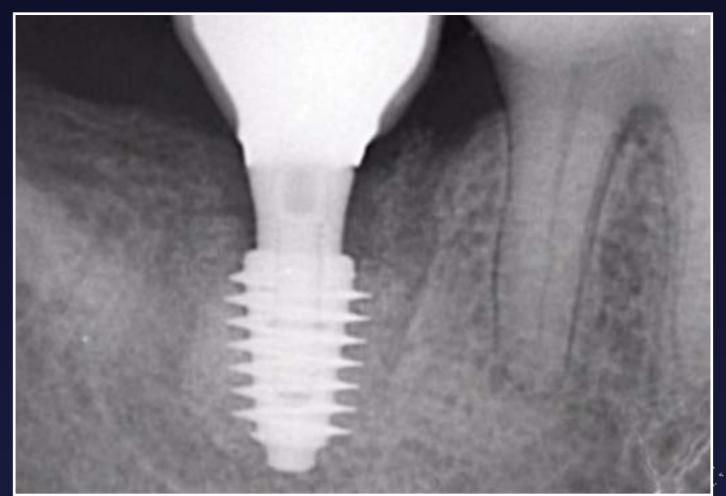
15. Healing cap fitted for a week and then impressions

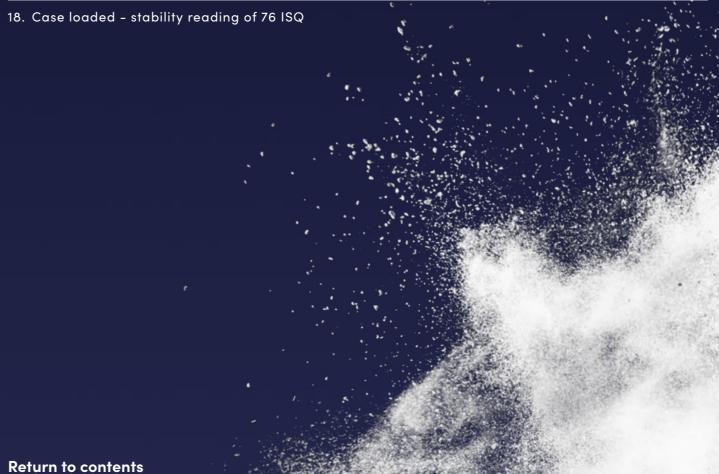


16. 10 days later



17. Screw retained and max crown on the LR7





Female 50 years old Non-smoker

Single premolar replacement, small buccal defect augmented with EthOss

10 weeks later opening and bone. Healing abutment inserted. Patient will return to referring dentist for crown

Case from Dr Kristina Saarepera, Estonia



1. Pre-op view



3. Implant axis is checked



Dr Kristina Saarepera



2. Small buccal defect



4. AnyRidge implant placed, few threads uncovered



Augmentation with EthOss bone graft material



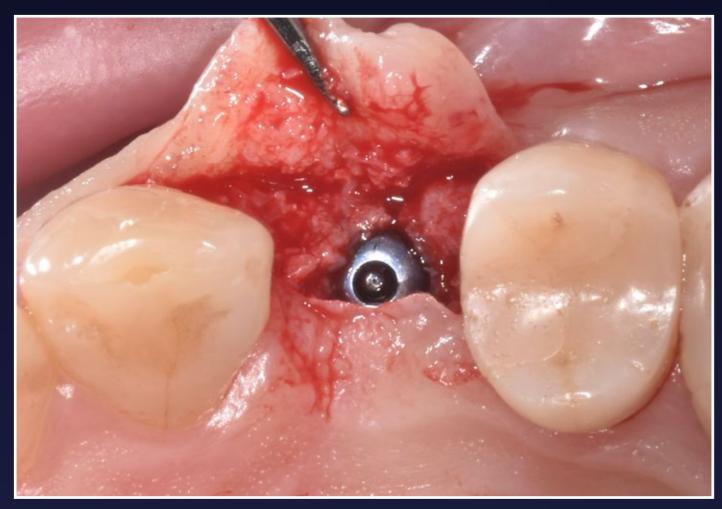
7. Tension free closure



6. View from another aspect



8. 10 weeks post-op



9. Healthy host bone is visible



10. Healing abutment placed



11. Radiograph post-op



Female 29 years old

Hyperacidity, non-smoker

UR4 and UL5 extracted 7 years ago

Case from Dr Pretam Gharat, London, UK



Dr Pratem Gharet



4. Close-up missing UR4



5. Initial incision UR4



1. Anterior image of the dentition



6. Flap raised



7. Sequential drilling using Versah burs



2. Left buccal view



3. Upper occlusal view



8. UR4 osteotomy visualised



9. Fixture placed at 50Ncm





10. Fixture approx. 1mm sub-crestal



11. RFA unit used. ISQ measured at 83



16. Versah burs used in reverse to slowly propel the EthOss into the sinus, thereby gently tenting the membrane



17. More EthOss packed into the osteotomy



12. Incision for UL5 implant placement



13. Flap raised



18. Osstem TSA III SA 4.0 at 10mm fixture placed at 50Ncm



19. Provisional crown in place



14. Versah burs used to under prepare osteotomy



15. EthOss mixed with saline and pushed into the osteotomy



20. Facial view with provisional crowns in situ



21. UR4 provisional crown out of function



22. Panoral view showing the UR4/UL5 implants

CROW YOUR KNOWLEDGE



Male 20 years old

Previous assault. UL1 fractured off. Root filled and crown rebonded

Decided on Southern INVERTA immediate placement and load with EthOss buccal build

Dr Dominic O'Hooley, Leeds, UK



Tr Dominic O'Hooley



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1. Radiograph shows left central incisor was fractured off at gingiva level



2. Pre-op radiograph shows preserved root and bone intact although a bit of bone loss on the palatal side



3. Pre-op radiograph



4. 1 year later – crown had snapped off again and was recemented by a local dentist. Shows an aesthetic compromise and needed to think about doing something more long term and predictable for the patient



5. Removal of tooth



7. Immediate placement of Southern INVERTA Implant



6. Removal of tooth



8. Continued surgery



9. Showing CoAxis and implant position



10. EthOss is placed



11. EthOss is placed



12. EthOss build with PEEK abutment



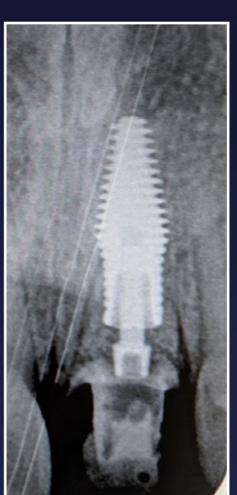
13. PEEK abutment removed and EthOss dried in situ



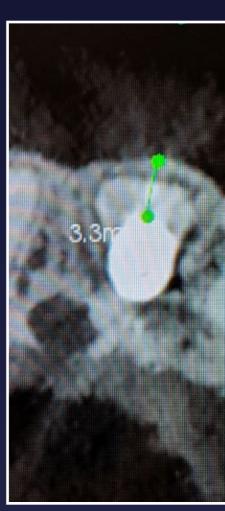
14. Provisional crown fitted



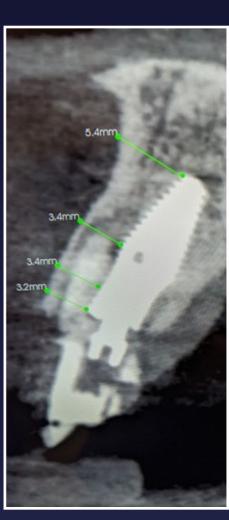
15. Shows space between provisional crown, apical portion and the gingiva. Slight trauma on the gum from tooth removal



16. Radiograph showing implant 17. Radiograph shows socket full 18. Alternative view placement



of well placed EthOss bone graft material





19. 12 weeks later showing tissue maturation and healing



20. Excellent emergence. The papillae both distally and mesially has been preserved



21. Alternative view of emergence



22. Impression post fitted for a pickup impression



23. Composite was used to record the emergence profile



24. 11 months post placement - fitting final crown



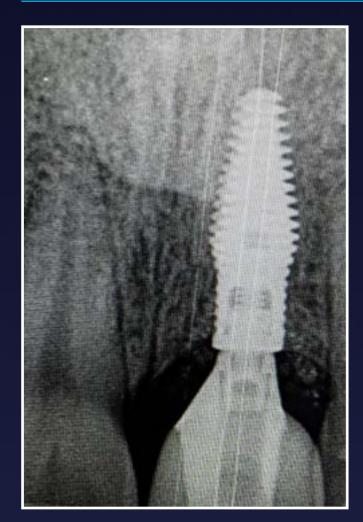
25. Immediately after placement. Above left front tooth shows slight gingival blanching. Distal papillae is slightly white which is normal but make sure the blanching starts to disappear a few minutes after placement. If blanching remains after 20 minutes, crown should be removed and adjusted



26. 10 minutes post placement – excellent result



RESULTS



27. Radiograph 11 months post-op at loading



28. 11 months post-op - CT scan shows healthy host bone. Buccal total ridge preservation dimension coronally and vertical improvement both labially and palatally



Female 35 years old

Healthy, non-smoker

Referred from dentist as patient did not want complex work or animal material.

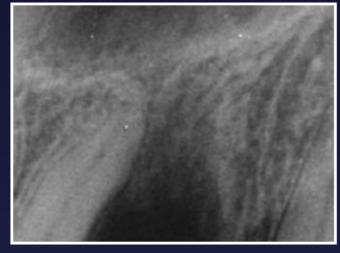
Case from Dr Peter Fairbairn, London, UK



Dr Peter Fairbairn



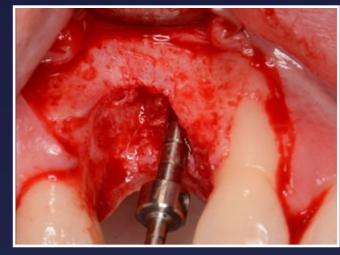
 Vertical and horizontal loss of hard and soft tissues visible



2. Radiograph showing bone defect



3. Bigger flap required as we will be restoring the defect on the mesial of the second premolar, as shown by arrow



4. Hard tissue loss on the palatal – check the angle



5. Radiograph showing hard tissue loss on the palatal aspect – check the angle



7. Implant placed



6. Palatal graft into the site and placement of 3.5mm wide implant to the correct level (1-2mm sub crestal)



8. Additional bone graft to the correct level and on the buccal aspect with drier mix of EthOss



9. Radiograph of implant placement



10. Passive closure using PTFE sutures. Small opening on palatal aspect



11. Sutures removed at 4 days - healing on the open palatal area by secondary intention





12. Healed site at 10 weeks



13. Papilla sparing flap raised new bone visible on distal premolar



14. Small additional graft with EthOss



15. Healing cap placed



16. Sutures removed again at 4 days



17. Bigger healing cap to improve emergence and Blue®M gel used for soft tissue healing



18. Radiograph showing restoration of bone on the distal premolar



19. 2 weeks post-op



20. 2 weeks post-op



21. Loaded at 14 weeks post-op, restored papillae



22. Radiograph showing restored profile. This will improve with time and function

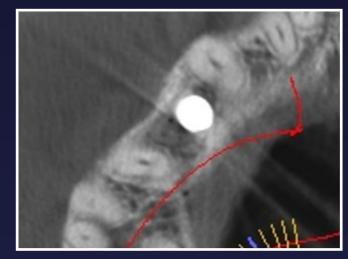
RESULTS



23. Loaded 6 months



24. Loaded 6 months



25. Loaded 9 months



26. Loaded 9 months



27. Loaded 9 months



28. Loaded 9 months



29. Loaded 9 months



30. Before



31. Loaded 1 year

Return to contents



Male 49 years old

Perio issues and heavy smoker

Case from Dr Ragnar Ilp, Estonia



Dr Ragnar IIp



5. Cross-suture to hold everything in place



6. 2 weeks later difficulties caused by lack of stability of both materials. After two additional weeks the membrane came off by itself



1. Upper first molar (UR6). Hopeless diagnosis



2. Distal root is very close to the 2nd molar



7. 5 months later, appointment time for implant surgery



8. Radiograph prior to surgery



3. MB root of 2nd molar has bone loss due to the proximity of the hopeless tooth. The buccal plate was also missing almost to the apices



4. Initial treatment using non resorbable PTFE membranes. Split thickness "pouches" on both sides, socket filled with PRF, no xenografts



9. Degranulated site, bone loss almost to the apex of the 2nd molar



10. Defect clearly visible



11. Grafted the site with EthOss bone graft material



12. EthOss graft set after applying pressure using sterile gauze and waiting 3 minutes



17. AnyRidge 4x10 implant placed



18. Healing cap fitted and sutured closed



13. Tension-free closure after periosteal release



14. A further 6 months later due to patient's travels



19. Post-placement radiograph – also a small crestal lift with Densah burs



20. Another 7 months later



15. Radiograph showing new host bone



16. New host bone visible



21. Tissue maturation before removing healing cap



22. 3-4 mm of tissue height, as required.

Everything is stable and feels solid



23. Slight tissue blanching, only lasted for a couple of minutes



25. Distal part is cleanable, still 4mm probing depth for UR7



27. Final radiograph for this part of the



24. Teflon tape and composite to seal it



26. Palatal view

CR OW CONFIDENT



Male 62 years old Non-smoker

High blood pressure Meds: Amitriptyline, Propranolol, Lercanidipine Allergies: Penicillin allergy

Missing UL6, only 3mm bone availability below sinus

Case from Dr Kris Leeson, York, UK



1. Pre-op



3. Initial relieving incision



Dr Kris Leeson



2. Digital impression pre-op



4. Exposed lateral wall of sinus



5. Piezo used to open window



7. Surgical pilot guide used



9. EthOss placement



6. Lateral window



8. Osteotomy prepared



10. Implant placed



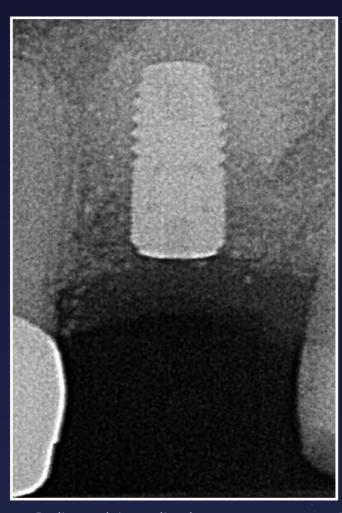
11. Cover screw in situ



13. Initial radiograph before extraction

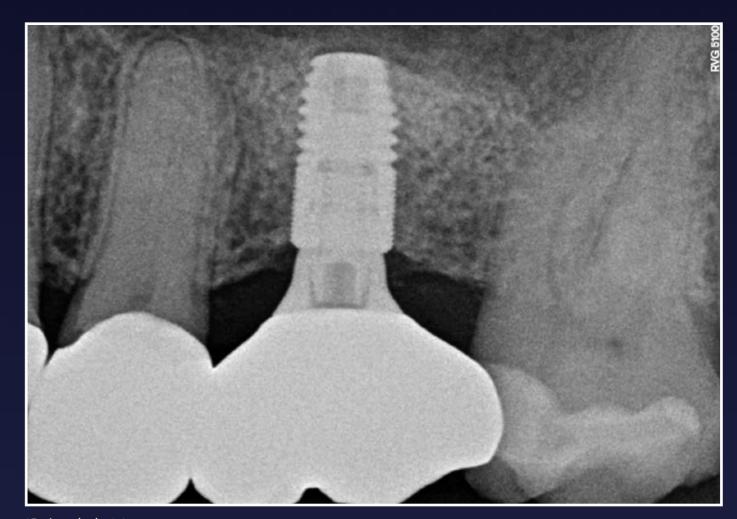


12. Post-op sutured with 4/0 Teflon



14. Radiograph immediately post-op

RESULTS



15. Loaded at 1 year

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Female 50 years old Diabetic, non-smoker

Long-term draining abscess with multiple previous apicectomies

Case from Dr Ștefan Anca, Romania



Dr Ştefan Anca



1. Panoramic radiographic - initial LL6 (36) is lost



2. Two and a half months post extraction of LL6



3. Large defect in bone, bad healing



4. Implant placed



6. Sutured shut



5. Grafted with EthOss bone graft material



7. 11 days post op shows excellent healing

RESULTS



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8. Panoramic radiograph at 1 year and 2 months

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Male 61 years old

Referred from dentist to remove fractured screw and restore, but was unable to remove the screw and due to Peri-implantitis it was decided to remove the implant as well.

Case from Dr Peter Fairbairn, London, UK



Dr Peter Fairbairn



5. Resultant defect, slight OA so decided to graft



6. EthOss bone graft placed



Fractured screw, implant could not be removed



2. Peri-implantitis bone loss is visible



7. EthOss in place - stabilise with gauze



8. Radiograph showing stable material – did not push too hard as small OA tear



3. Reasonable bone loss is visible so need to remove rather than save



4. Radiograph confirms need to removed

64



9. Sutured closed



10. 10 weeks post-op - excellent new host regenerated bone



11. Site regeneration



13. Place drier mix of EthOss into the sinus site



15. Radiograph shows small lift with Versah



12. Versah Drill to help with Internal lift



14. Paltop Dynamic implant placed

RESULTS



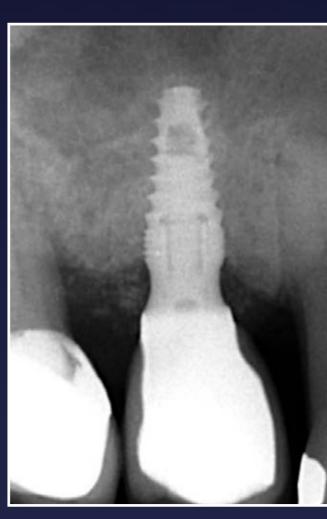
16. Loading 14 weeks post-op. Note healthy attached keratinised tissue



17. Screw retained crown fitted



18. Radiograph shows successful outcome – nice platform switch



19. Radiograph at 4 months showing stability of hard tissue

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Female 58 years old

Healthy, non-smoker

Lateral ridge augmentation with simultaneous implant placement

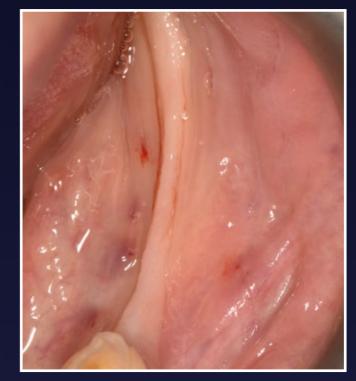
Case from MDS Ignas Antanavičius, Kaunas, Lithuania



Dr Ignas Antanavičius



1. Initial view. Teeth extracted many years ago



2. Loss of bone and keratinised tissue



4. Site augmented with 1cc of EthOss bone grafting material

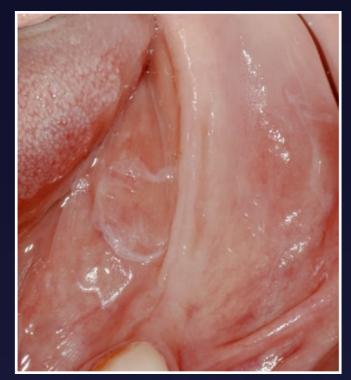


3. Implants inserted in LL4, LL6 region.
Insufficient bone around implants



5. Double layered suturing

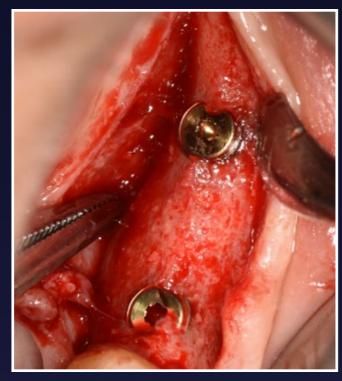




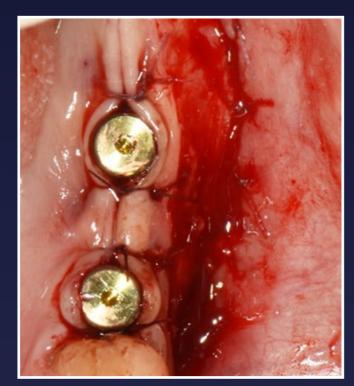
6. Visible soft tissue improvement after 10 weeks



8. Healing caps fitted. Site sutured closed



7. Surgical view after 10 weeks. Note increased bone width



9. Vestibulum deepening was done to increase amount of fixed gingiva



10. Sutures removed after 10 days. Implants are ready for prosthetic work



Female 47 years old

Successfully undergone non-surgical periodontal therapy

6mm probing pocket depth on mesial of tooth

Case from Dr Renukanth Raman, Malaysia



Dr Renukanth Raman



4. Localised flap on buccal aspect



Following cleaning defect is visible - apically
 walled, coronally 1 walled

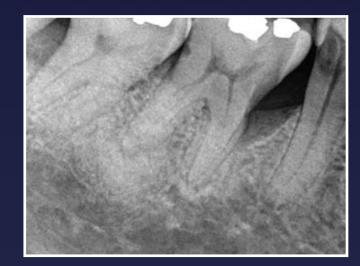


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1. Initial situation



2. Initial situation - 6mm PPD



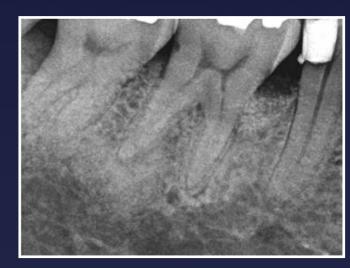
3. Initial situation – radiograph



6. Grafted with EthOss, moulded to shape and dried



7. Passive closure



8. Radiograph immediately post-op



9. 1 week healing post-op



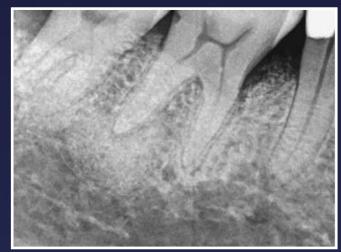
10. Radiograph at 1 month note post-op. Slight radiopacity to be expected as the Calcium Sulphate resorbs



11. 6 months post-op, good maintenance of interproximal tissues



12. 6 month post-op, 3mm PPD



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13. Result at 6 months, expect further improvements over time



Female 79 years old Healthy, non-smoker

Patient suffered from localised periodontitis affecting all lower incisors with severe bone loss

Case from Dr Jonathan Cochrane, Bristol, UK

First published in the EDI journal, Issue 2/20



Dr Jonathan Cochrane



5. Re-entry 10 weeks later, single crestal incision made



6. Freehand placements with the initial twist drills in the lateral positions – occlusal view



1. Initial periapical radiograph



2. Clinical view immediately after extractions and socket curettage, flap raised and released lingually and buccally



7. Buccal view



8. Immediately after placing the implants in the optimal three dimensional position – occlusal view



3. Intraoperative situation after the application and setting of EthOss in situ



4. Surgical wound sutured with Vicyrl Rapide – primary closure almost achieved

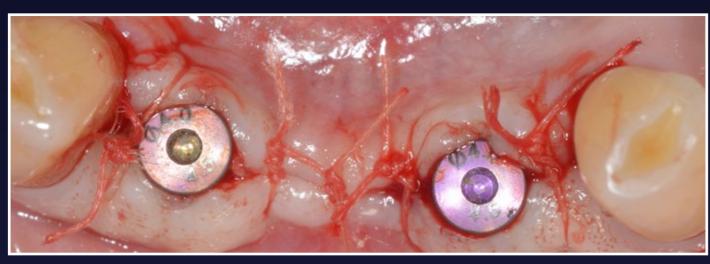
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9. Healing abutments placed - occlusal view



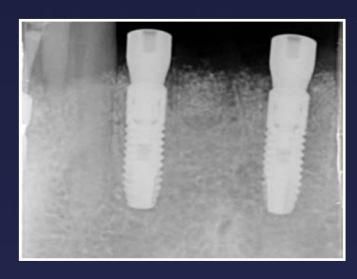
10. Buccal view



11. Surgical site closed – occlusal view



12. Buccal view



13. Periapical radiograph immediately post-op



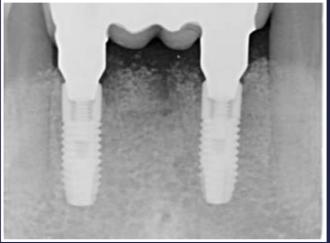
14. Restoration phase, 10 weeks later, showing nicely healed, regenerated keratinised soft tissues



15. Occlusal view of implants and peri-implant soft tissues immediately prior to fit of the final implant bridge



Final implant bridge immediately after fitting - buccal view



17. Periapical radiograph after fitting the final implant bridge. The grafting material is turning over, being gradually replaced by newly formed bone. The loading of implants will lead to further consolidation and remodelling of the regenerated bony tissue

Male 37 years old Healthy, non-smoker

Patient suffers from unrestorable upper and lower dentition

Case from Dr Adeel Ali, London, UK



Dr Adeel Ali



1. Lips at rest view



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2. Pre-op view



3. Retracted view



5. Lower arch



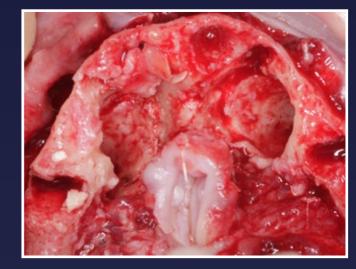
7. Impacted canine removed



4. Upper arch



6. Flap raised shows minimal ridge thickness in premaxilla



8. Defects left by removal of impacted canines



9. Neodent GM implants placed



11. Sutured closed



10. Grafted with EthOss



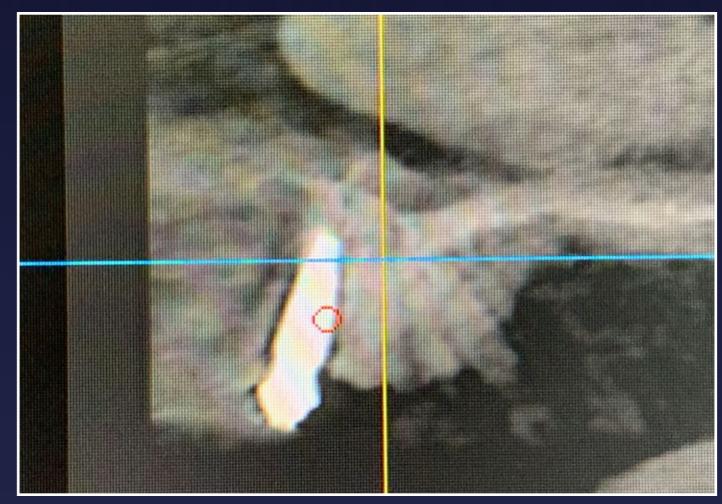
12. Immediate post-op



13. Upper arch – 10 months post–op



14. Post-op CBCT shows maturation of EthOss graft



15. Post-op CBCT shows maturation of EthOss graft

Female 55 years old Healthy, non-smoker

Patient suffered from a root fracture. Needed removal and to restore hard and soft tissue

Case from Dr Minas Leventis, Greece



■ Dr Minas Leventis



2. Initial periapical x-ray



 Initial situation 3 weeks after simple extraction of the upper left second premolar



3. Intraoral evaluation of the edentulous space



4. Distances measured and position of the initial pilot osteotomy identified

84



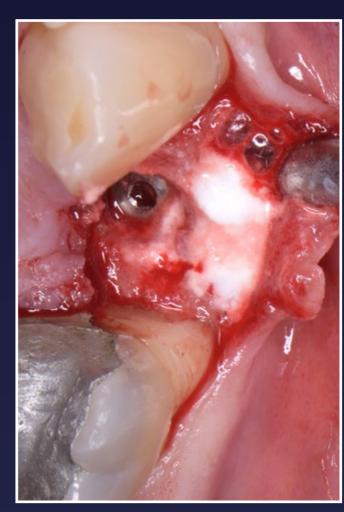
5. Distances measured and position of the initial pilot osteotomy identified



6. A site-specific full-thickness flap was raised and a Paltop Dynamic 4.0x8.0 implant was placed 1mm subcrestally, achieving excellent initial stability



7. Measurement of the depth of placement and the thickness of the overlying soft tissues



8. The buccal area was grafted with 0.5cc EthOss



9. Using the Cervico mould a customised healing abutment was fabricated and fitted



10. Clinical views immediately post-op



11. Clinical views immediately post-op



12. Periapical x-ray immediately post-op

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RESULTS



13. Clinical views 3 months post-op





15. Clinical view immediately after fitting the implant crown



16. Final periapical x-ray

Female 29 years old Healthy, non-smoker

Removal of deciduous E and replacement with implant

Case from Dr Stuart Kilner London, UK



Dr Stuart Kilner



1. Initial situation



3. After XLA & 6 weeks healing



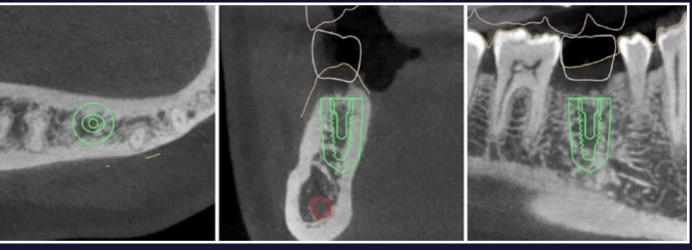
2. Radiograph - initial situation



5. Guided implant placement



7. EthOss graft placed with custom healing abutment





6. Implant placement



8. Radiograph - implant placement



9. Surgery and first phase of prosthodontics complete



10. 6 month post-surgery



11. 6 month post-surgery

CRつW CONFIDENI



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Dr Adeel Ali

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Dr Ignas Antanavičius

Dr Jonathan Cochrane

Dr Kris Leeson

Dr Kristina Saarepera

Dr Mark Worthing

Dr Minas Leventis

Dr Peter Fairbairn

Dr Pretam Gharat

Dr Ragnar IIp

Dr Rainer Rannula

Dr Renukanth Raman

Dr Stefan Anca

Dr Stuart Kilner

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

info@ethoss.dental

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

Email: info@ethoss.dental

Tel: +44 (0)1535 843106

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EthOss Regeneration Ltd 8 Ryefield Court, Ryefield Way Silsden, West Yorkshire BD20 0DL UK +44 (0)1535 843106 info@ethoss.dental www.ethoss.dental

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