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Volume 1

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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



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these case studies.

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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



1. Initial situation before extraction



3. Radiograph showing initial situation



2. Initial situation before extraction



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



5. Occlusal view CBCT



7. Post extraction. The alveolar sockets are degranulated



 EthOss covered by collagen fleece and healing cap fitted

8. Implant placed



2

Extraction and Immediate Placement



6. Occlusal view CBCT





9. Socket grafted with EthOss bone graft material



 Couple of sutures to adapt marginal gingiva

Extraction and Immediate Placement



12. Intraoral radiograph after implantation



14. Occlusal view CBCT



13. Sectional view CBCT



15. CBCT

4

RESULTS



 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



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



1. Panoramic radiograph showing defect



2. No visible problems



3. No visible problems



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



8. Radiograph showing 10 weeks post-op

Socket Grafting with Delayed Implant Placement



5. Extraction socket prior to degranulation



7. Flap released and sutured shut



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



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



13. 4.8mm diameter Astra EV implant is placed



15. 10 weeks further healing



17. Zirconia crown in place



18. Happy with the outcome

Socket Grafting with Delayed Implant Placement

RESULTS



1. Final PA showing excellent results



2. 1 year recall showing bone levels maintained

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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



Korthing



1. Pre-op



2. Pre-op occlusal view



3. Pre-op



4. Decoronation



6. Partial extraction therapy preparation



5. Check radiograph for partial extraction therapy

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7. Partial extraction therapy



8. Partial extraction therapy



9. Fixture placement INVERTA by Southern Implants



11. Fixture placement INVERTA by Southern Implants



13. EthOss is placed



10. Fixture placement INVERTA by Southern Implants



12. EthOss in jump gap



14. Additional EthOss is placed

Immediate Implant Placement with Partial Extraction Therapy





- 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



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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



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



Dr Peter Fairbairn



2. Tooth removed and left to heal for 3 weeks



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



"Push-in" Implant Technique



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

"Push-in" Implant Technique



9. Radiograph 1 week post-op, great result



12. 10 weeks later implant is ready to load

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"Push-in" Implant Technique



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



"Push-in" Implant Technique

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



📕 Dr Kristina Saarepera



1. Pre-op view



3. Implant axis is checked



2. Small buccal defect



4. AnyRidge implant placed, few threads uncovered



5. Augmentation with EthOss bone graft material



7. Tension free closure

Single Premolar Replacement



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



1. Anterior image of the dentition



2. Left buccal view



3. Upper occlusal view



4. Close-up missing UR4



6. Flap raised



8. UR4 osteotomy visualised

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UR4, UL5 Graft and Implant Placement



5. Initial incision UR4



7. Sequential drilling using Versah burs



9. Fixture placed at 50Ncm

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10. Fixture approx. 1mm sub-crestal



11. RFA unit used. ISQ measured at 83



12. Incision for UL5 implant placement



13. Flap raised



14. Versah burs used to under prepare osteotomy



 EthOss mixed with saline and pushed into the osteotomy



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



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



20. Facial view with provisional crowns in situ

UR4, UL5 Graft and Implant Placement



17. More EthOss packed into the osteotomy



19. Provisional crown in place



21. UR4 provisional crown out of function

UR4, UL5 Graft and Implant Placement



22. Panoral view showing the UR4/UL5 implants

GROW 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



Dr Dominic O'Hooley



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

Immediate Placement for Long-term Success



6. Removal of tooth





9. Showing CoAxis and implant position



10. EthOss is placed



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



11. EthOss is placed



13. PEEK abutment removed and EthOss dried in situ



12. EthOss build with PEEK abutment



14. Provisional crown fitted



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 removed and adjusted



26. 10 minutes post placement – excellent result

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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 <u>old</u>

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



1. Vertical and horizontal loss of hard and soft tissues visible



2. Radiograph showing bone defect



 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



 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



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



15. Healing cap placed

Vertical Regeneration of Both Buccal and Palatal Bone Walls



12. Healed site at 10 weeks



14. Small additional graft with EthOss



16. Sutures removed again at 4 days



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



19. 2 weeks post-op



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



 Radiograph showing restoration of bone on the distal premolar



20. 2 weeks post-op



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

RESULTS



23. Loaded 6 months



25. Loaded 9 months



27. Loaded 9 months



24. Loaded 6 months



26. Loaded 9 months



28. Loaded 9 months

Vertical Regeneration of Both Buccal and Palatal Bone Walls



29. Loaded 9 months



30. Before



31. Loaded 1 year



Male 49 years old

Perio issues and heavy smoker

Case from Dr Ragnar Ilp, Estonia



🔜 Dr Ragnar Ilp



1. Upper first molar (UR6). Hopeless diagnosis



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



 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



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



5. Cross-suture to hold everything in place



5 months later, appointment time for implant surgery



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

Upper First Molar Socket Graft



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



8. Radiograph prior to surgery



10. Defect clearly visible

Upper First Molar Socket Graft



11. Grafted the site with EthOss bone graft material



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



13. Tension-free closure after periosteal release



15. Radiograph showing new host bone



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



16. New host bone visible



17. AnyRidge 4x10 implant placed



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



21. Tissue maturation before removing healing cap

Upper First Molar Socket Graft



18. Healing cap fitted and sutured closed



20. Another 7 months later



22. 3-4 mm of tissue height, as required. Everything is stable and feels solid

Upper First Molar Socket Graft



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



24. Teflon tape and composite to seal it

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



26. Palatal view







27. Final radiograph for this part of the treatment

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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



Dr Kris Leeson



1. Pre-op



3. Initial relieving incision



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

Sinus Lift with Immediate Placement



6. Lateral window



8. Osteotomy prepared



10. Implant placed

Sinus Lift with Immediate Placement



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

11

Long-term draining abscess with multiple previous apicectomies

Case from Dr Ștefan Anca, Romania



Dr Ștefan 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

RESULTS



8. Panoramic radiograph at 1 year and 2 months



5. Grafted with EthOss bone graft material



7. 11 days post op shows excellent healing

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



Fractured screw, implant could not be removed



2. Peri-implantitis bone loss is visible



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



4. Radiograph confirms need to removed



 Resultant defect, slight OA so decided to graft



7. EthOss in place - stabilise with gauze



9. Sutured closed

12



6. EthOss bone graft placed



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



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



11. Site regeneration



13. Place drier mix of EthOss into the sinus site



12. Versah Drill to help with Internal lift



14. Paltop Dynamic implant placed



15. Radiograph shows small lift with Versah

RESULTS



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



 Radiograph shows successful outcome – nice platform switch



17. Screw retained crown fitted



19. Radiograph at 4 months showing stability of hard tissue

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

Lateral Ridge Augmentation



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



5. Double layered suturing


Lateral Ridge Augmentation



Visible soft tissue improvement after 10 weeks



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



8. Healing caps fitted. Site sutured closed



 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 LR6

Case from Dr Renukanth Raman, Malaysia



🛄 Dr Renukanth Raman



4. Localised flap on buccal aspect



1. Initial situation



2. Initial situation – 6mm PPD



3. Initial situation – radiograph



6. Grafted with EthOss, moulded to shape and dried



7. Passive closure



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



8. Radiograph immediately post-op

RESULTS



9. 1 week healing post-op



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

$\frac{GR}{SAFER}$



 6 months post-op, good maintenance of interproximal tissues



12. 6 month post-op, 3mm PPD



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

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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



1. Initial periapical radiograph



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



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



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



9. Healing abutments placed - occlusal view

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Ridge Preservation and Regeneration



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



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





11. Surgical site closed - occlusal view



12. Buccal view



13. Periapical radiograph immediately post-op

RESULTS



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





16. 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

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Male 37 years old Healthy, non-smoker

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Patient suffers from unrestorable upper and lower dentition

Case from Dr Adeel Ali, London, UK



🗮 Dr Adeel Ali



1. Lips at rest view



2. Pre-op view



3. Retracted view



5. Lower arch



7. Impacted canine removed

Upper and Lower Arch Immediate Load with Impacted Canine Removal



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



10. Grafted with EthOss



11. Sutured closed



12. Immediate post-op

RESULTS



13. Upper arch – 10 months post-op



15. Post-op CBCT shows maturation of EthOss graft

Upper and Lower Arch Immediate Load with Impacted Canine Removal



14. 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



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



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



3. Intraoral evaluation of the edentulous space



2. Initial periapical x-ray



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



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

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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



8. The buccal area was grafted with 0.5cc EthOss

UL5 Extraction and Implant Placement



 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

RESULTS



13. Clinical views 3 months post-op



15. Clinical view immediately after fitting the implant crown



14. Clinical views 3 months post-op



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



4. CBCT



5. Guided implant placement



 EthOss graft placed with custom healing abutment

Deciduous E Replacement



6. Implant placement



8. Radiograph – implant placement

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9. Surgery and first phase of prosthodontics complete

RESULTS



10. 6 month post-surgery



inter and the

11. 6 month post-surgery

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With special thanks to all our contributors

Dr Adeel Ali

Dr Dominic O'Hooley

Dr Ignas Antanavičius

Dr Jonathan Cochrane

Dr Kris Leeson

Dr Kristina Saarepera

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