

中台灣牙醫植體醫學會讀書會

2016年

最新植牙鑲復實證醫學趨勢

葉信圻醫師

2016.12.28

自我介紹

葉信圻醫師

- 彰化秀傳/彰濱秀傳 牙科部 主治醫師 (補綴科主任)
- 美國鑲復牙科學會專科醫師 暨 院士 (F.A.C.P)
- 美國印第安納大學(Indiana University)鑲復牙科專科訓練暨 碩士
- 高雄醫學大學牙醫學系



既然是讀書會

今天選擇了66篇文章與各位分享

都跟植牙有相關

有問題直接討論，
我會把資料上傳可以慢慢看

請不用刻意抄筆記，所有內容一過今晚12點就自動
上傳到我的網站上

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YEHC

假牙贖復學

首頁

2016牙醫助理基礎認證課程

目的

自我介紹

本網站合作的廠商廣告

關於植牙：要不要綁在一起？

20160103 比較SPLINTED和NONSPLINTED IMPLANT 的MARGINAL BONE LOSS---VIGOLO(2015)

Clinical Evaluation of Marginal Bone Level Change Around Multiple Adjacent Implants Restored with Splinted and Nonsplinted Restorations: A 10-Year Randomized Controlled Trial

Paolo Vigolo, DMD, MScD¹/Sabrina Mutinelli, DMD²/
Massimiliano Zaccaria, DMD³/Edoardo Stellini, DMD⁴

十年的追蹤，non-splinted 比 splinted的marginal bone loss多了0.1mm，但有統計上差異。

20160112 上下顎UNSPUNTED IMPLANT RETAINED OVERDENTURE的追蹤---STRONG(2015)

Success of Unsplinted Implant-Retained Removable Mandibular and Maxillary Overdentures: A Retrospective Study of Consecutive Cases



Samuel M. Strong, DDS¹

When restoring in
in the edentulous
options include fix
screw-retained pro
detachable (hybrid)

Unsplinted implant retained overdenture應該是可信賴的

關於植牙：ALL-ON-4？

20160104 上顎V4 IMPLANT SUPPORT FIXED DENTURE的治療方式---JENSEN(2015)

CLINICAL RESEARCH

Maxillary V-4: Four implant treatment for maxillary atrophy with dental implants fixed apically at the vomer-nasal crest, lateral pyriform rim, and zygoma for immediate function.

Report on 44 patients followed from 1 to 3 years



Ole T. Jensen, DDS, MS,^a Mark W. Adams, DDS, MS,^b Caesar Butura, DDS,^c and Daniel F. Galindo, DDS^d

不得已的情況下，可以考慮都種斜的

[HTTPS://YEHHSINCHI.COM/2016/02/29/REVERSE-ZYGOMATIC-IMPLANT-DAWOOD2015/](https://yehhsinchi.com/2016/02/29/reverse-zygomatic-implant-dawood2015/)

20160229 REVERSE ZYGOMATIC IMPLANT---DAWOOD(2015)

The Reverse Zygomatic Implant: A New Implant For Maxillofacial Reconstruction

Andrew Dawood, MRD, RCS, MSc, BDS¹/

Jonathan Collier, MA, MFDS, FRCS (OMFS), PhD²/

Alastair Darwood, BMedSci³/Susan Tanner, MRD, RCS, MSc, BDS⁴

不得已的情況下，zygomatic implant也可以反過來種

20160710 使用TILTED DENTAL IMPLANT是否能增加IMPLANT RETAINED PROSTHESIS的支持面積---
WENTASCHEK(2016)

Polygonal Area of Prosthesis Support with Straight and Tilted Dental Implants in Edentulous Maxillae

Stefan Wentaschek, DMD, MSc¹/Karl Martin Lehmann, DMD, PhD²/Herbert Scheller, DMD, PhD³/
Gernot Weibrich, MD, DMD, PhD²/Nikolaus Behneke, DMD, PhD²

最後一支植體種45度角斜的，跟種直的比較起來可以多
15%的覆蓋面積

[HTTPS://YEHHSINCHI.COM/2016/07/25/%E6%AF%94%E8%BC%83OPEN-AND-CLOSE-TRAY%E5%8E%BB%E5%8D%B0ALL-ON-4%E7%9A%84%E7%B2%BE%E6%BA%96%E5%BA%A6-SIADAT2016/](https://yehhsinchi.com/2016/07/25/%E6%AF%94%E8%BC%83OPEN-AND-CLOSE-TRAY%E5%8E%BB%E5%8D%B0ALL-ON-4%E7%9A%84%E7%B2%BE%E6%BA%96%E5%BA%A6-SIADAT2016/)

20160725 比較OPEN AND CLOSE TRAY 去印ALL-ON-4的精準度---SIADAT(2016)

Comparison of Different Impression Techniques When Using the All-on-Four Implant Treatment Protocol

Hakimeh Siadat, DDS, MS¹/Marzieh Alikhasi, DDS, MS²/
Elaheh Beyabanaki, DDS, MS³/Susan Rahimian, DDS, MS⁴

Open tray，直的，abutment level印all-on-4比較準

[HTTPS://YEHHSINCHI.COM/2016/08/08/%E4%B8%8A%E9%A1%8EIMPLANT-SUPPORTED-FIXED-PROSTHESIS%E7%9A%84%E9%97%9C%E9%8D%B5%E5%9B%9E%E9%A1%A7-GALLUCCI2016/](https://yehhsinchi.com/2016/08/08/%E4%B8%8A%E9%A1%8EIMPLANT-SUPPORTED-FIXED-PROSTHESIS%E7%9A%84%E9%97%9C%E9%8D%B5%E5%9B%9E%E9%A1%A7-GALLUCCI2016/)

20160808 上顎IMPLANT-SUPPORTED FIXED PROSTHESIS的關鍵回顧---GALLUCCI(2016)

Maxillary Implant-Supported Fixed Prosthesis: A Survey of Reviews and Key Variables for Treatment Planning

German O. Gallucci, DMD, PhD¹/Marianna Avrampou, DDS, MSc²/James C. Taylor, DMD, MA³/
Julie Elpers, DMD, MS⁴/Ghadeer Thalji, DDS, PhD⁵/Lyndon F. Cooper, DDS, PhD⁶

上顎implant supported prosthesis有不同的製作方式，看
醫師的經驗及習慣做選擇

20160918 評估對於全口無牙的患者使用IMPLANT-SUPPORTED PROSTHESIS的滿意度---DE SOUZA(2016)

Assessment of Satisfaction Level of Edentulous Patients Rehabilitated with Implant-Supported Protheses

Fernando Isquierdo de Souza, DDS, MSc, PhD Student¹/Alessandro de Souza Costa, DDS, MSc²/
Rodrigo dos Santos Pereira, DDS, MSc, PhD Student³/Paulo Henrique dos Santos, DDS, MSc, PhD⁴/
Rui Barbosa de Brito Jr, DDS, MSc, PhD⁵/Eduardo Passos Rocha, DDS, MSc, PhD⁴

即使是有植牙支持/協助的假牙，還是有不滿意的患者

20160920 上顎全口沒有補骨植牙重建比較 IMMEDIATE OR DELAYED LOADING之追蹤--- BUSENLECHNER(2016)

Graftless Full-Arch Implant Rehabilitation with Interantral Implants and Immediate or Delayed Loading— Part I: Reconstruction of the Edentulous Maxilla

Dieter Busenlechner, DDS, PhD¹/Georg Mailath-Pokorny, DDS, MD, PhD¹/
Robert Haas, DDS, MD, PhD¹/Rudolf Fürhauser, DMD, MD¹/Carina Eder, DMD¹/
Bernhard Pommer, DDS, PhD¹/Georg Watzek, DDS, MD, PhD¹

上顎植在兩個sinus之間，做implant supported
prosthesis，成功機率大

關於植牙：手術要注意？

20160107 POSTEROSUPERIOR ALVEOLAR ARTERY 跟上顎竇的位置關係 --- HAYEK(2015)

Location of Posterosuperior Alveolar Artery and Correlation with Maxillary Sinus Anatomy



*Elie Hayek, BDS, DU¹/Ibrahim Nasseh, DDS, DSO, FICD²
Wahib Hadchiti, BDS, MSC³/Philippe Bouchard, DDS, MSC⁴
Maria Moarbes, BDS, DU⁵/Georges Khawam, BDS, DU⁶
Boulos Bechara, DDS, MS⁷/Marcel Noujeim, DDS, MS⁸*

Thorough kn
omy of the
imperative b
all sinus lift a
cedures in th

做sinus lateral window，要檢查PSAA的位置避免出血

20160228 在 FRESH EXTRACTION SITE 使用生理食鹽水沖洗是否能減少細菌量 --- MANOR (2015)

Levels of Bacterial Contamination in Fresh Extraction Sites After a Saline Rinse

Yifat Manor, DMD¹/Adi Alkasem, DMD²/Ofer Mardinger, DMD³/
Gavriel Chaushu, DMD, MSc⁴/Ronit Bar-Ness Greenstein, PhD⁵

拔牙後用生理食鹽水沖洗，可以有效減少細菌量

20160331 使用FRACTAL DIMENSION VALUE評估 IMPLANT RECIPIENT SITE的骨質狀況---SUER(2016)

Correlation of Fractal Dimension Values with Implant Insertion Torque and Resonance Frequency Values at Implant Recipient Sites

Berkay Tolga Suer, DDS, PhD¹/Zekai Yaman, DDS, PhD²/Bora Buyuksarac, MSc³

X光看起來白一點的骨頭，可能會比較硬一些

20160620 比較BICORTICAL FIXATION, INDIRECT SINUS ELEVATION和UNICORTICAL FIXATION的IMPLANT STABILITY---HSU(2016)

Comparison of Initial Implant Stability of Implants Placed Using Bicortical Fixation, Indirect Sinus Elevation, and Unicortical Fixation

Andrea Hsu, DMD, MS¹/Wook-Jin Seong, DDS, PhD²/Ryan Wolff, DDS³/Lei Zhang, MS⁴/
James Hodges, PhD⁵/Paul S. Olin, DDS, MS²/James E. Hinrichs, DDS, MS⁶

三種不同的植牙方式所得到的ISQ並沒有差異，但
unicortical會種比較短一點

20160720 選擇IMMEDIATE IMPLANT PLACEMENT選擇的IMPLANT DIAMETER---DE OLIVEIRA ROSA(2016)

Guidelines for Selecting the Implant Diameter During Immediate Implant Placement of a Fresh Extraction Socket: A Case Series



Ariadene Cristina Pértile de Oliveira Rosa, DDS, MSc, PhD¹
José Carlos Martins da Rosa, DDS, MSc, PhD¹
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Bruno Salles Sotto-Maior, DDS, MSc, PhD⁴

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extractio

前牙立即植牙要注意buccal wall，diameter要看B-L的距離

[HTTPS://YEHHSINCHI.COM/2016/09/17/%E5%81%9AFLAPPED-OR-FLAPLESS-SURGERY%E5%B0%8D%E6%96%BCINITIAL-CRESTIAL-BONE-LOSS%E7%9A%84%E5%BD%B1%E9%9F%BF-MAIER2016/](https://yehhsinchi.com/2016/09/17/%E5%81%9AFLAPPED-OR-FLAPLESS-SURGERY%E5%B0%8D%E6%96%BCINITIAL-CRESTIAL-BONE-LOSS%E7%9A%84%E5%BD%B1%E9%9F%BF-MAIER2016/)

20160917 做FLAPPED OR FLAPLESS SURGERY對於
INITIAL CRESTIAL BONE LOSS的影響---MAIER(2016)

Initial Crestal Bone Loss After Implant Placement with Flapped or Flapless Surgery—A Prospective Cohort Study

Frank-Michael Maier, Dr Med Dent, M Sc¹

隨機分配使用flap / flapless方式植牙，結果不翻瓣的方式
平均保留骨質情況較好

20160921 在TRANSMUCOSAL IMPLANT植牙時補上 SUBMARGINAL CONNECTIVE TISSUE GRAFT對於SHALLOW BUCCAL DEHISCENCE的三年追蹤---STEFANINI(2016)

Transmucosal Implant Placement with Submarginal Connective Tissue Graft in Area of Shallow Buccal Bone Dehiscence: A Three-Year Follow-Up Case Series



Martina Stefanini, DDS, PhD¹

Pietro Felice, MD²/Claudio Mazzotti, DDS, MSc³

Matteo Marzadori, DDS, MSc³

Enrico F. Gherlone, MD⁴/Giovanni Zucchelli, DDS, PhD⁵

好的soft tissue可以保護bone

關於植牙：開藥要注意？

20160110 評估在牙周及植牙治療中抗生素的使用 --- FROUM(2015)

An Evaluation of Antibiotic Use in Periodontal and Implant Practices



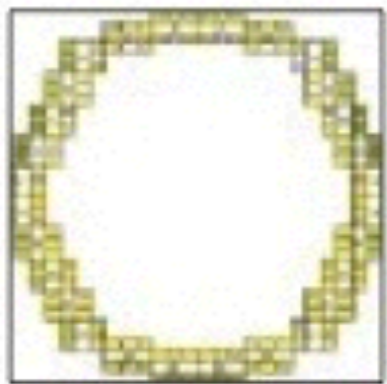
Stuart J. Froum, DDS, PC¹

Mea A. Weinberg, DMD, MSD, RPh²

沒有一定要開抗生素的準則，但建議保護自己

20160208 比較不同的漱口水對於阻止PLAQUE的結果 --- NEHME(2015)

A Randomized, Crossover Trial to Evaluate the Effect of Two Mouthrinses on Plaque Regrowth in the Absence of Brushing



Marc Nehme, DDS, MSc¹/Katy Malpass, BSc (Hons), PhD¹

Andrew Butler, BSc, CStat²

Stephen Mason, BSc, MSc, PhD, MRSC (CChem)³

Carl J. Kleber, MSD, PhD⁴/Jeffery L. Milleman, DDS, MPA⁵

Kimberly R. Milleman, RDH, BSEd, MS⁵

Xerost
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a phys

在術後給予CHx漱口藥水可以減少plaque score

關於植牙：立即乘載？

20160111 從組織學方面來看立即承載的下顎單 顆植體 --- AMATO(2015)

Human Histologic Analysis of an Immediately Loaded Single-Tooth Mandibular First Molar Implant



Francesco Amato, MD, DDS, PhD¹
Giorgio Polara, DDS²
Tonino Traini, DDS, PhD³

Primary stability是好的，立即乘載應該沒有問題

20160117 FLAPLESS POSTRACTION SOCKET IMPLANT在有 做BONE GRAFTING和PROVISIONAL RESTORATION對於 PERI-IMPLANT SOFT TISSUE的寬度和高度的影響 --- CHU(2015)

Flapless Postextraction Socket Implant Placement, Part 2: The Effects of Bone Grafting and Provisional Restoration on Peri-implant Soft Tissue Height and Thickness— A Retrospective Study



Stephen J. Chu, DMD, MSD, CDT¹/Maurice A. Salama, DMD²
David A. Garber, DDS, BDS²/Henry Salama, DMD²
Guido O. Sarnachiaro, DDS³/Evangalina Sarnachiaro⁴
Sergio Luis Gotta⁵/Mark A. Reynolds, DDS, MS, PhD⁶
Hanae Saito, DDS, MS⁷/Dennis P. Tamow, DDS⁸

Implant placement into postextraction sockets with a provisional restoration in nonfunctional occlusion in the maxillary anterior region has increased in use and clinical relevance

前牙immediate implant若是能夠補骨及同時做provisional restoration，結果可能會比較好。

20161217 INTERIM IMMEDIATELY LOADED FULL-ARCH PROSTHESES的 COMPLICATIONS---DRAGO(2016)

Frequency and Type of Prosthetic Complications Associated with Interim, Immediately Loaded Full-Arch Prostheses: A 2-Year Retrospective Chart Review

Carl Drago, DDS, MS, FACP^{1,2,3}

¹Department of Dental Specialties, Gundersen Health System, LaCrosse, WI

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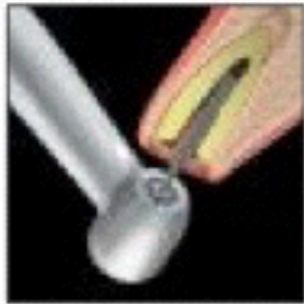
³Eon Clinics, Waukesha WI

all-on-4 immediate loading interim prosthesis，植體失敗率極低，但是修補率要抓2成左右

關於植牙：留下斷根？

20160119 PDL-MEDIATED RIDGE PRESERVATION FOR IMMEDIATE IMPLANT REHABILITATION IN THE ESTHETIC REGION---MITSIAS(2015)

A Step-by-Step Description of PDL-Mediated Ridge Preservation for Immediate Implant Rehabilitation in the Esthetic Region



Miltiadis E. Mitsias, DDS, MSc, PhD¹

Konstantinos D. Siompas, DDS²

Eleni Kontsiotou-Siormpa, DDS²/Hari Prasad, BS, MDT³

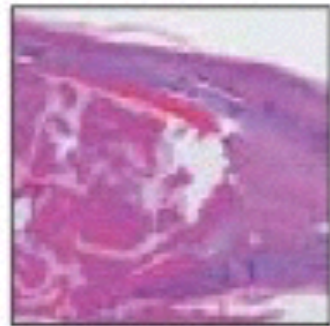
David Garber, DMD⁴/Georgios A. Kotsakis, DDS⁵

Extracti
cade of
sorption
of atrau
preserv

前牙immediate implant時在頰側留下斷根可能可行

20160203 殘留牙根碎片在植體周邊 的CASE REPORT---LANGER(2015)

Unintentional Root Fragment Retention in Proximity to Dental Implants: A Series of Six Human Case Reports



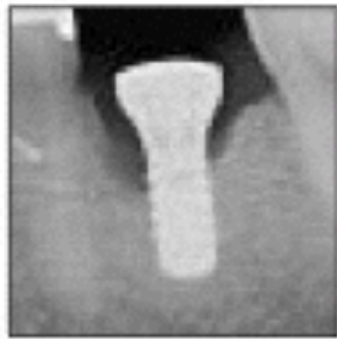
Laureen Langer, DDS¹
Burton Langer, DMD, MScD¹
Daliah Salem, DMD, MMSc²

case report 對於植體周圍有牙根碎片，成功率只有五成

關於植牙：PERI-IMPLANTITIS

20160120 REGENETATIVE APPROACH TO SUCCESS TREATMENT OF PERI-IMPLANTITIS---FROUM(2015)

A Regenerative Approach to the Successful Treatment of Peri-implantitis: A Consecutive Series of 170 Implants in 100 Patients with 2- to 10-Year Follow-up



*Stuart J. Froum, DDS, PC¹
Scott H. Froum, DDS, PC²
Paul S. Rosen, DMD, MS³*

Peri-implantitis 在仔細清潔後有獲得改善

20160508 ADJUNCTIVE SYSTEMIC AND LOCAL ANTIMICROBIAL THERAPY IN THE SURGICAL TREATMENT OF PERI-IMPLANTITIS---CARCUAC(2016)

Research Reports: Clinical

Adjunctive Systemic and Local Antimicrobial Therapy in the Surgical Treatment of Peri-implantitis: A Randomized Controlled Clinical Trial

**O. Carcuac¹, J. Derks¹, G. Charalampakis², I. Abrahamsson¹, J. Wennström¹,
and T. Berglundh¹**

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治療Peri-implantitis時有無使用antibiotics和CHx沒有差異，植體表面有無磨平順有差異

20160510 PERI-IMPLANT OSSEOUS DEFECT重建的RCT研究---JEPSEN(2016)

Research Reports: Clinical

Reconstruction of Peri-implant Osseous Defects: A Multicenter Randomized Trial

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**K. Jepsen¹, S. Jepsen¹, M.L. Laine², D. Anssari Moin², A. Pilloni³, B. Zeza³, M. Sanz⁴,
A. Ortiz-Vigon⁴, A.M. Roos-Jansåker^{5,6}, and S. Renvert^{5,6,7,8}**

治療Peri-implantitis時使用open flap + porous titanium granules有效果

20160514 如何處理逐年增加的PERI-IMPLANTITIS發生率---TARNOW(2016)

Perspective

Increasing Prevalence of Peri-implantitis: How Will We Manage?

D.P. Tarnow¹

Keywords: dental implants, clinical outcomes, peri-mucositis, bone loss, oral implants, osseointegration

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Dr. Tarnow 預測 Peri-implantitis 在未來10年內的發生率大約為10%，一定要注意清潔

20160703 不同方式對於植體表面的殺菌功能比較---SAFFARPOUR(2016)

Bactericidal Effect of Erbium-Doped Yttrium Aluminum Garnet Laser and Photodynamic Therapy on *Aggregatibacter Actinomycetemcomitans* Biofilm on Implant Surface

Anna Saffarpour, DDS, MSc¹/Reza Fekrazad, DDS, MSc²/Maryam Naghavi Heibati, DDS³/
Abbas Bahador, PhD⁴/Aida Saffarpour, DDS, MSc⁵/Amir R. Rokn, DDS, Msc⁶/
Aysel Iranparvar, DDS³/Mohammad J. KharaziFard, DDS, PhD⁷

用雷射，LED，CHx都可以殺菌，而CHx沖洗30秒效果最佳

20160706 比較不同藥劑對於植體內部的殺菌作用---PODHORSKY(2016)

Transfer of Bacteria into the Internal Cavity of Dental Implants After Application of Disinfectant or Sealant Agents In Vitro

Anke Podhorsky, Dr Med Dent¹/Stefanie Biscopig, Dr Med Dent²/
Peter Rehmann, PD Dr Med Dent³/Philipp Streckbein, PD Dr Med, Dr Med Dent⁴/
Eugen Domann, Prof Dr Rer Nat⁵/Bernd Wöstmann, Prof Dr Med Dent⁶

Sealing agent有幫助，但還是會有implant/abutment connection滲漏，無法完全去除細菌

20160719 NONSURGICAL TREATMENT OF PERI-IMPLANTITIS USING BIOFILM DECONTAMINATION---PINI-PRATO(2016)

Nonsurgical Treatment of Peri-implantitis Using the Biofilm Decontamination Approach: A Case Report Study



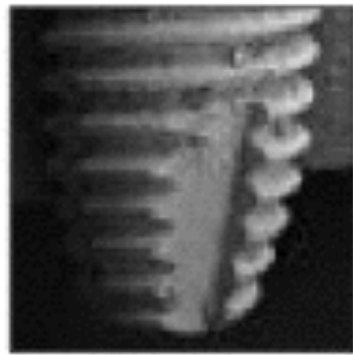
Giovanpaolo Pini-Prato, MD, DDS, PhD¹
Cristina Magnani, DDS¹
Roberto Rotundo, DDS²

Periodontitis is an
inflammatory disease caused by a
bacterial biofilm. The
therapy is based
on mechanical debridement
and root debridement
without flap approach.

使用sulfonic acid去處理有peri-implantitis的植體表面，需要更多的研究

20160814 在FAILING IMPLANT上使用電子顯微鏡看BACTERIAL BIOFILM---SIMION(2016)

Bacterial Biofilm Morphology on a Failing Implant with an Oxidized Surface: A Scanning Electron Microscope Study



Massimo Simion, MD, DDS¹
David M. Kim, DDS, DMSc²
Stefano Pieroni, DDS³
Myron Nevins, DDS⁴
Clara Cassinelli⁵

peri-implantitis的植體表面若是rough surface，需要磨平
後打亮比較有機會完全去除細菌

20160923 PERI-IMPLANT DISEASE 的分類系統---SARMIENTO(2016)

A Classification System for Peri-implant Diseases and Conditions



Hector L. Sarmiento, DMD, MSc¹

Michael R. Norton, BDS, FDS, RCS(Ed)²

Joseph P. Fiorellini, DMD, DMSc³

Peri-implantitis的分類，大多還是因為細菌的問題

關於植牙：RIDGE SPLITTING

20160202 比較在NARROW ALVEOLAR RIDGE 使用RIDGE EXPANSION和RIDGE SPLITTING 的結果---KAO(2015)

Comparison of Ridge Expansion and Ridge Splitting Techniques for Narrow Alveolar Ridge in a Swine Cadaver Model



Daniel W.K. Kao, DDS, MS, DMD¹

Joseph P. Fiorellini, DMD, DMSc²

原始ridge最好要有3mm以上比較好做splitting/expansion

20161025 在拔牙後的SOCKET裡做BUCCAL PLATE EXPANSION的處理---AYORA(2016)

Extraction Socket Management with Buccal Plate Expansion: Preliminary Results of a Novel Technique



Alberto Fernandez Ayora, DDS, MS¹

Oscar González-Martín, DDS, MS²

Eric Rompen, DDS, MS, PhD³

Geoffrey Lecloux, DDS, MS⁴

France Lambert, DDS, MS, PhD⁴

拔牙後的buccal plate還是會吸收掉，即使你故意留下，
甚至多補一點

關於植牙：OPEN CONTACT

20160210 IMPLANT補綴物周圍OPEN CONTACT的成因及解決方式--- GREENSTEIN(2016)

Open contacts adjacent to dental implant restorations

Etiology, incidence, consequences, and correction

Gary Greenstein, DDS, MS; Joseph Carpentieri, DDS;
John Cavallaro, DDS

ABSTRACT

Background. The aim of this investigation was to eval-

長期下來，植牙的mesial side可能會有open contact，因為自然牙有向前傾倒的傾向

20160517 觀察一年植牙與鄰牙的 CONTACT TIGHTNESS---REN(2016)

CLINICAL SCIENCE

Changes in proximal contact tightness between fixed implant prostheses and adjacent teeth: A 1-year prospective study



Shuxin Ren, DDS,^a Ye Lin, DDS,^b Xiulian Hu, DDS,^c and Ying Wang, DDS^d

追蹤一年，植牙的mesial side會有open contact的傾向

關於植牙：危險因子

20160224 EARLY IMPLANT FAILURE的 RISK FACTORS---OLMEDO-GAYA(2016)

CLINICAL RESEARCH

Risk factors associated with early implant failure: A 5-year retrospective clinical study



Maris Victoria Olmedo-Gaya, PhD,^a Francisco J. Manzano-Moreno, DDS, MSc,^b Esther Cañaveral-Cavero, DDS,^c Juan de Dios Luna-del Castillo, PhD,^d and Manuel Vallecillo-Capilla, PhD^e

植牙的early failure，跟male, severe periodontal disease, expansion, short implant, pain/inflammation 1 week有關聯性

20160422 INTERIMPLANT DISTANCE和 CRESTAL BONE HEIGHT之關係的系統性回 顧 ---AL AMRI(2016)

SYSTEMATIC REVIEW

Influence of interimplant distance on the crestal bone height around dental implants: A systematic review and meta-analysis



Mohammad D. Al Amri, BDS, MS, FRCDC

植牙之間的距離，是否真的要差距3mm？應該以最後補綴物的觀點來植牙

20160629 有ORAL MUCOSAL DISEASE的患者 對於DENTAL IMPLANT的反應之系統性回顧--- REICHART(2016)

Review

Dental implants in patients with oral mucosal diseases – a systematic review

P. A. REICHART*, A. M. SCHMIDT-WESTHAUSEN*, P. KHONGKHUNTHIAN[†] & F. P. STRIETZEL[‡] *Department of Oral Medicine, Dental Radiology and Oral Surgery, Center for Dental, Oral and Maxillary Medicine, Charité – Universitätsmedizin Berlin/Germany, Berlin, Germany, [†]Faculty of Dentistry, Center of Excellence for Dental Implantology, Chiang Mai University/Thailand, Chiang Mai, Thailand and [‡]Department for Oral Medicine, Dental Radiology, and Oral Surgery, Charité Centre 3 for Dental, Oral, and Maxillary Medicine, Charité – Universitätsmedizin Berlin, Berlin, Germany

有oral mucosal disease的患者植牙目前並沒有絕對的禁忌症

20161121 磨牙和植牙失敗的多重 相關因素 --- CHRCANOVIC(2016)

Bruxism and dental implant failures: a multilevel mixed effects parametric survival analysis approach

B.R. CHRCANOVIC*, J. KISCH[†], T. ALBREKTSSON*[‡] & A. WENNERBERG* **Department of Prosthodontics, Faculty of Odontology, Malmö University, Malmö, [†]Clinic for Prosthodontics, Centre of Dental Specialist Care, Malmö and [‡]Department of Biomaterials, Göteborg University, Göteborg, Sweden*

有磨牙的患者植牙的失敗率的確較高，要注意患者有沒有
磨牙

關於植牙：CBCT

20160226 使用CBCT量測上顎前牙的LABIAL和
PALATAL BONE的厚度的準確性---
BEHNIA(2015)

Accuracy and Reliability of Cone Beam Computed Tomographic Measurements of the Bone Labial and Palatal to the Maxillary Anterior Teeth

Hossein Behnia, DMD, MS¹/Saeed Reza Motamedian, DDS²/
Mohammad Taghi Kiani, DMD, MS³/Golnaz Morad, DDS²/Arash Khojasteh, DMD, MS⁴

在CBCT上量測的bone厚度若是小於1mm，有可能會更薄

關於植牙：GBR

20160404 做VERTICAL BONE GRAFT和PERIOSTEAL VERTICAL MATTRESS SUTURE WITH RESORBABLE MEMBRANE的CASE REPORT--URBAN(2016)

Vertical Bone Grafting and Periosteal Vertical Mattress Suture for the Fixation of Resorbable Membranes and Stabilization of Particulate Grafts in Horizontal Guided Bone Regeneration to Achieve More Predictable Results: A Technical Report



Istvan A. Urban, DMD, MD, PhD¹

Jaime L. Lozada, DMD²

Bastian Wessing, Dr Med Dent³

Fernando Suárez-López del Amo, DDS⁴

Hom-Lay Wang, DDS, MSD, PhD⁵

Bone augmentation techniques using guided bone regeneration (GBR) have shown excellent and reproducible success rates for many years and have ensured a re

可以使用periosteal vertical mattress suture來固定
resorbable membrane

20160530 植牙位置跟是否有補骨的存活率---TRAN(2016)

Survival of Dental Implants Placed in Grafted and Nongrafted Bone: A Retrospective Study in a University Setting

Duong T. Tran, DDS, MPH, PhD¹/Isabel C. Gay, DDS, MS²/Janice Diaz-Rodriguez, DDS³/Kavitha Parthasarathy, DDS, MS⁴/Robin Weltman, DDS, MS⁵/Lawrence Friedman, DDS⁶

植牙時沒有補骨的成功率略高，但沒有統計上差異。抽煙和沒有定期回診才會提高失敗率。

20160531 在SINUS LIFT之後 MEMBRANE的變化---MAKARY(2016)

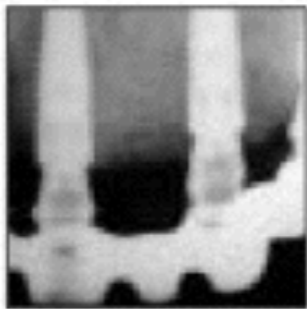
Changes in Sinus Membrane Thickness After Lateral Sinus Floor Elevation: A Radiographic Study

Christian Makary, DDS, PhD¹/Alberto Rebaudi, MD, DDS²/
Abdallah Menhall, DDS³/Nada Naaman, DDS, PhD⁴

Lateral window sinus lift後，membrane在一週內會增厚
將近5mm，增厚的量和補骨的量成正比，半年後會恢復正
常

20160717 在上顎前牙做補骨的難度分類---URBAN(2016)

Surgical Management of Significant Maxillary Anterior Vertical Ridge Defects



Istvan A. Urban, DMD, MD, PhD¹

Alberto Monje, DDS²/Myron Nevins, DDS³

Marc L. Nevins, DMD, MSc⁴/Jamie L. Lozada, DDS, MS⁵

Hom-Lay Wang DDS, MSD, PhD⁶

上顎前牙補骨，要注意vestibule的深淺以及periosteum的健康狀況

20160905 植牙的長度寬度和SINUS AUGMENTATION的BONE STRESS 3D FINITE ELEMENT ANALYSIS---MORIWAKI(2016)

Influence of Implant Length and Diameter, Bicortical Anchorage, and Sinus Augmentation on Bone Stress Distribution: Three-Dimensional Finite Element Analysis

Hiroyoshi Moriwaki, DDS, PhD¹/Satoshi Yamaguchi, PhD²/Tamaki Nakano, DDS, PhD³/
Yasufumi Yamanishi, DDS, PhD¹/Satoshi Imazato, DDS, PhD⁴/Hirofumi Yatani, DDS, PhD⁵

在上顎後牙區域，如果能夠種越寬越長最好，需要的時候該補骨就補骨，因為植體長度可以更長一些

關於植牙：ABUTMENT

20160410 比較TITANIUM AND MACHINABLE PRECIOUS ALLOY製作的 CUSTOMIZED ABUTMENT---LEE(2016)

Comparison of Customized Abutments Made from Titanium and a Machinable Precious Alloy

Jee-Ho Lee, DDS, PhD¹/Ji-Man Park, DDS, PhD²/Eun-Jin Park, DDS, PhD³/
Jai-Young Koak, DDS, PhD⁴/Seong-Kyun Kim, DDS, PhD⁴/Seong-Joo Heo, DDS, PhD⁴

可以使用Pd-Ag custom abutment，margin輸，torque
贏，顏色比較美觀但是價錢貴很多

20160705 在斜放植體的ABUTMENT給于側向力
之後的ABUTMENT SCREW STABILITY---
ABOU-OBAID(2016)

Effect of Single Off-Axis Implant Placement on Abutment Screw Stability Under Lateral Loading

Ala'a Ibrahim Abou-Obaid, BDS¹/Hanan Nejer Al-Otaibi, BDS, MDSc²/Riyadh Fadul Akeel, BDS, MDSc, PhD

single off-axis的implant abutment在接受側向力時並不會
明顯喪失torque

20160718 口內銲接的IMMEDIATE LOADED PROVISIONAL FPD---DEGIDI(2016)

The Conometric Concept: Coupling Connection for Immediately Loaded Titanium-Reinforced Provisional Fixed Partial Dentures— A Case Series



Marco Degidi, MD, DDS¹
Diego Nardi, DDS¹
Adriano Piattelli, MD, DDS²

A debate exists with the optimal connection for fixed restoration and a recent systematic review that no statistically significant

直接口內銲接可以達到好的fitness，但是需要專門的機器

20160730 使用特別設計的GUIDE去拿除斷裂的ABUTMENT SCREW---YOON(2016)

Safe Removal of a Broken Abutment Screw with Customized Drill Guide and Rotary Instrument: A Clinical Report

Joon-Ho Yoon, DDS, MS, PhD,¹ Heeje Lee, DDS,² & Man-Yong Kim, DDS¹

¹Department of Prosthodontics, National Health Insurance Medical Center, Ilsan Hospital, Gyeonggi, South Korea

²Division of Prosthodontics, Eastman Institute for Oral Health, University of Rochester, Rochester, NY

可以使用客製化的impression coping去保護拆除斷裂
screw時候不要傷到植體內部

20160805 TISSUE ENTRAPMENT對於INTERNAL 和EXTERNAL CONNECTION的ABUTMENT SCREW LOOSENING的影響 --- ZENO(2016)

The Effect of Tissue Entrapment on Screw Loosening at the Implant/Abutment Interface of External- and Internal-Connection Implants: An In Vitro Study

Helios A. Zeno, DMD,¹ Renan L. Buitrago, DDS,¹ Sidney S. Sternberger, DMD,¹ Marisa E. Patt, DMD,¹
Nick Tovar, PhD,² Paulo Coelho, DDS PhD,² Kenneth S. Kurtz, DDS, FACP,^{1,3} & Frank J. Tuminelli, DMD,
FACP⁴

¹Department of Graduate Prosthodontics, New York Presbyterian, Queens, NY

²Department of Biomaterials and Biomimetics, New York University College of Dentistry, New York, NY

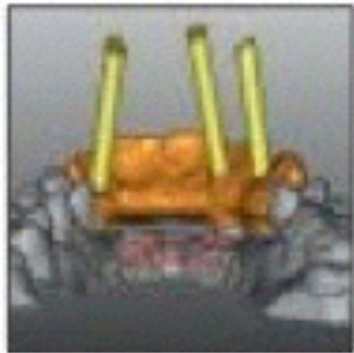
³Department of Graduate Prosthodontics, New York University College of Dentistry, New York, NY

⁴Director of Graduate Prosthodontics, New York Presbyterian, Queens, NY

軟組織滲進去abutment/implant connection，在internal connection比較沒有影響，但是external connection比較會有影響。

20160817 在上顎前牙區嚴重ATROPHY RIDGE 利用HYBRID METAL/PORCELAIN的重建--- ENRIQUEZ(2016)

Esthetic Restoration with Artificial Gingiva in an Atrophied Alveolar Ridge: Clinical Report



Antonio Enríquez, DDS¹
Eric Sánchez, MDr²
J. Manuel Guizar, DDS, CDT³
Carlos Martin del Campo, DDS⁴
L. Antonio Fandiño, DDS⁵

Patients de
and functio
because of
quality of lif
phied alveo

若要做hybrid denture，接multi-unit abutment是個好選
項

20161026 比較不同材質的TOOTH-COLOR IMPLANT CUSTOM ABUTMENT--- GUILHERME(2016)

RESEARCH AND EDUCATION

Assessment of reliability of CAD-CAM tooth-colored implant custom abutments

Nuno Marques Guilherme, DMD, MS, MSD,^a Kwok-Hung Chung, DDS, MS, PhD,^b
Brian D. Flinn, MS, PhD,^c Cheng Zheng, PhD,^d and Ariel J. Raigrodski, DMD, MS^e

上顎前牙美觀區Ti-base + zirconia可能是目前最好的選項

[HTTPS://YEHHSINCHI.COM/2016/10/26/ZIRCONIA-ONE-PIECE-IMPLANT-ABUTMENT%E7%82%BA%E4%BB%80%E9%BA%BC%E4%B8%8D%E5%BB%BA%E8%AD%B0%E7%B9%BC%E7%BA%8C%E4%BD%BF%E7%94%A8/](https://yehhsinchi.com/2016/10/26/zirconia-one-piece-implant-abutment%E7%82%BA%E4%BB%80%E9%BA%BC%E4%B8%8D%E5%BB%BA%E8%AD%B0%E7%B9%BC%E7%BA%8C%E4%BD%BF%E7%94%A8/)

20161026-1 ZIRCONIA ONE PIECE IMPLANT ABUTMENT為什麼不建議繼續使用

純zirconia abutment會刮傷植體內部

[HTTPS://YEHHSINCHI.COM/2016/12/15/%E6%AF%94%E8%BC%83%E5%A4%96%E5%85%AD%E8%A7%92%E6%A4%8D%E9%AB%94%E4%BD%BF%E7%94%A8TITANIUMZIRCONIA-ABUTMENT-CYCLIC-LOADING%E7%9A%84%E6%A9%9F%E6%A2%B0%E6%80%A7%E8%B3%AA%E8%AE%8A%E5%8C%96-GEHRKE2/](https://yehhsinchi.com/2016/12/15/%E6%AF%94%E8%BC%83%E5%A4%96%E5%85%AD%E8%A7%92%E6%A4%8D%E9%AB%94%E4%BD%BF%E7%94%A8TITANIUMZIRCONIA-ABUTMENT-CYCLIC-LOADING%E7%9A%84%E6%A9%9F%E6%A2%B0%E6%80%A7%E8%B3%AA%E8%AE%8A%E5%8C%96-GEHRKE2/)

20161215 比較外六角植體使用 TITANIUM&ZIRCONIA ABUTMENT CYCLIC LOADING的機械性質變化---GEHRKE(2016)

RESEARCH AND EDUCATION

Mechanical behavior of zirconia and titanium abutments before and after cyclic load application



Sergio Alexandre Gehrke, DDS, PhD,^a Pablo Mateus Poncio da Silva, MS,^b
José Luiz Calvo Guirado, DDS, PhD,^c Rafael Arcesio Delgado-Ruiz, DDS, PhD,^d
Berenice Anina Dedavid, PhD,^e Magda Aline Nagasawa, DDS,^f and Jamil Awad Shibli, DDS, PhD^g

純zirconia abutment在cyclic loading後會變形，並造成植體的損傷

關於植牙：OVERDENTURE

20160524 IMPLANT-SUPPORTED OVERDENTURE 的ANTERIOR LINGUAL SULCOPLASTY CASE REPORT---CARVALHO(2016)

CLINICAL REPORT

Frenectomy with anterior lingual sulcoplasty for an implant-supported overdenture: A clinical report



Paulo Sergio Perri de Carvalho, DDS, PhD,^a Luiz Antonio Janjacom, DDS,^b and Daniela Ponzoni, DDS, PhD^c

下顎的implant OVD有需要時要做lingual sulcoplasty，可
以利用temp abutment去壓迫

20160605 植牙支持式全口假牙的樹脂牙更換情況分析---BALSHI(2016)

The Retread: A Definition and Retrospective Analysis of 205 Implant-Supported Fixed Prosthesis

Thomas J. Balshi, DDS, PhD¹/Glenn J. Wolfinger, DMD²/Stephen G. Alfano, DDS²/Stephen F. Balshi, MBE³

平均來說，7-8年需要更換implant supported denture的樹脂牙，磨耗的速度和對咬牙有相關

20160623 比較TWO IMPLANT RETAINED OVERDENTURE使用LOCATOR或MAGNETIC對於PERI-IMPLANT TISSUE的影響 ---ELSYAD(2016)

Locators versus magnetic attachment effect on peri-implant tissue health of immediate loaded two implants retaining a mandibular overdenture: a 1-year randomised trial

M. A. ELSYAD*, F. F. MAHANNA*, M. A. ELSHAHAT[†] & A. H. ELSHOUKOUKI*

**Removable Prosthodontics, Faculty of Dentistry, Mansoura University, Mansoura, and [†]Oral Medicine and Periodontology, Faculty of Dentistry, Mansoura University, Mansoura, Egypt*

使用locator / magnetic implant retained denture對於peri-implant tissue沒有顯著差異

20160701 上顎IMPLANT OVERDENTURE是否有做PALATAL COVERAGE的DENTURE STRAIN比較---TAKAHASHI(2016)

Influence of Palatal Coverage and Implant Distribution on Denture Strain in Maxillary Implant Overdentures

Toshihito Takahashi, DDS, PhD¹/Tomoya Gonda, DDS, PhD²/
Akiko Tomita, DDS, PhD³/Yoko Mizuno, DDS, PhD⁴/Yoshinobu Maeda, DDS, PhD⁵

OVD沒有palate coverage的shear strain明顯較高，要加金屬去增強

20160807 PROTOCOLS OF MAXILLARY IMPLANT OVERDENTURE SYSTEMIC REVIEW---SADOWSKY(2016)

Protocols for the Maxillary Implant Overdenture: A Systematic Review

Steven J. Sadowsky, DDS¹/Nicola U. Zitzmann, DDS, PhD²

在做上顎implant OVD時候，植體要選rough surface，至少10mm，四隻以下要做splinting，越分散越好

20161105 對於不同的SOFT LINERS AND THICKNESS對於IMMEDIATELY LOADED 2 IMPLANT OVD的研究---ABD-ELWAHAB RADI(2016)

RESEARCH AND EDUCATION

Effect of two different soft liners and thicknesses mediating stress transfer for immediately loaded 2-implant supported mandibular overdentures: A finite element analysis study



Iman Abd-Elwahab Radi, MDS, PhD^a and Nesrin Elmahrouky, MSD, PhD^b

在immediate loading implant OVD上墊soft liner確實可以
減少應力

關於植牙：其他相關

20160426 有無植牙和患者的死亡率之關係---JEMT(2015)

Patterns of Mortality in Patients Treated with Dental Implants: A Comparison of Patient Age Groups and Corresponding Reference Populations

Torsten Jemt, DDS, Odont Dr, PhD^{a,b}/Jan Kowar, DDS^b/
Mats Nilsson, PhD^c/Victoria Stenport, DDS, Odont Dr/PhD^{b,d}

超過70歲有植牙的患者的死亡率有下降，70歲之前有無植牙沒有統計上差異

20160704 在清理植體時使用牙線的 風險性---MONTEVECCHI(2016)

Is Implant Flossing a Risk-Free Procedure? A Case Report with a 6-year Follow-up

Marco Montevercchi, DDS¹/Veronica De Blasi, DDS²/Luigi Checchi, MD, DDS³

小心超級牙線的sponge可能會卡在sulcus裡面

20160727 在拆除IMPLANT PFM CROWN時傳導的熱度是否會傷害植體的骨整合---CAKAN(2016)

During Removal of Metal Copings Cemented onto Titanium Abutments

Umut Cakan, DDS, PhD¹/Murat Cakan, PhD²/Cagri Delilbasi, DDS, PhD³

適當的噴水之下，拆除implant PFM crown是安全的

[HTTPS://YEHHSINCHI.COM/2016/08/09/%E6%A4%8D%E9%AB%94%E7%9A%84OSSEOPERCEPTION-SYSTEMIC-REVIEW-MISHRA2016/](https://yehhsinchi.com/2016/08/09/%E6%A4%8D%E9%AB%94%E7%9A%84OSSEOPERCEPTION-SYSTEMIC-REVIEW-MISHRA2016/)

20160809 植體的OSSEOPERCEPTION SYSTEMIC REVIEW---MISHRA(2016)

Osseoperception in Dental Implants: A Systematic Review

Sunil Kumar Mishra, MDS,¹ Ramesh Chowdhary, MDS,² Bruno Ramos Chrcanovic, DDS, MSc,³ & Per-Ingvar Brånemark, MD, PhD⁴

¹Department of Maxillofacial Prosthodontics and Implantology, Peoples Dental Academy, Bhopal, India

²Department of Prosthodontics and Maxillofacial Implantology, Rajarajeshwari Dental College and Hospital, Bangalore, India

³Department of Prosthodontics, Faculty of Odontology Malmö University, Malmö, Sweden

⁴Branemark Osseointegration Centre, Mölndal, Sweden

到底植牙咀嚼有沒有回饋的感覺？大部分的文章是支持有回饋感的，但沒有證據

20161030 SCREW-ACCESS CHANNELS 對於 CERAMIC IMPLANT-SUPPORTED CROWN 的 FRACTURE RATE 影響 ---HUSSIEN(2016)

RESEARCH AND EDUCATION

Effect of screw-access channels on the fracture resistance of 3 types of ceramic implant-supported crowns

Ahmed Naguib M. Hussien, BDS, MSc, PhD,^a Mohammad M. Rayyan, BDS, MSc, PhD,^b
Nagwa M. Sayed, BDS, MSc, PhD,^c Lucette G. Segaan, BDS, MSc, PhD,^d
Charles J. Goodacre, DDS, MSD,^e and Mathew T. Kattadiyil, BDS, MDS, MS^f

有沒有在implant crown上打screw hole對fracture resistance沒有差異，但使用monolithic zirconia效果較好

謝謝聆聽，請多指教

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假牙贖復學

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