

台灣牙周病醫學會夏季研討會

2018年

牙科植體實證醫學

葉信圻醫師
2018.8.26

葉信圻醫師

- 彰化/彰濱 秀傳醫院牙科部 主治醫師
- 美國鑲復牙科學會專科醫師 暨院士
Diplomate, American Board of Prosthodontics
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- 美國印第安納大學(Indiana University)
鑲復牙科專科訓練 暨碩士 (M.S.D.)
- 高雄醫學大學牙醫學系 (D.D.S)



今天選擇了66篇文章與各位分享

都跟植牙有相關

有問題歡迎討論，
資料在網站上可以慢慢看

請不用抄筆記，所有內容已上傳到我的網站上

[HTTPS://YEHHSINCHI.COM/](https://yehhsinchi.com/)

YEHC
假牙贗復學

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。

20170617 在下顎後牙區的植體長短及是否相連的 FINITE ELEMENT STUDY—TONIOLO(2017)

A Three-Dimensional Finite Element Analysis of the Stress Distribution Generated by Splinted and Nonsplinted Prostheses in the Rehabilitation of Various Bony Ridges with Regular or Short Morse Taper Implants

Marcelo Bighetti Toniollo, MSc, PhD¹/Ana Paula Macedo, MSc, PhD²/
Renata Cristina Silveira Rodrigues, MSc, PhD²/Ricardo Faria Ribeiro, MSc, PhD²/
Maria da Gloria Chiarello de Mattos, MSc, PhD²

若是使用短植體，理論上要相連在一起

20171218 比較SPLINTED和NONSPLINTED DENTAL IMPLANT RESTORATION的CRESTAL BONE LOSS---AMRI(2017)

Crestal Bone Loss Around Adjacent Dental Implants Restored with Splinted and Nonsplinted Fixed Restorations: A Systematic Literature Review

Mohammad D. Al Amri, BDS, MS, FRCDC¹ & Sergio Varela Kellesarian, DDS²

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植體有無相連跟Crestal bone loss沒有顯著差異

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

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

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。至少要有四支植體，相連或是分開要看醫師及患者的狀況做判斷。

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 Prostheses

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，滿意度超過八成，還是有不滿意的患者

20170215 全口重建時使用CERAMIC-VENEERED ZIRCONIA FRAMEWORK的追蹤---CARAMES(2016)

Ceramic-Veneered Zirconia Frameworks in Full-Arch Implant Rehabilitations: A 6-Month to 5-Year Retrospective Cohort Study

João Manuel Mendez Caramês, DDS, PhD, FICD¹/António Duarte Sola Pereira da Mata, DDS, PhD, FICD²/
Duarte Nuno da Silva Marques, DDS, PhD³/Helena Cristina de Oliveira Francisco, DDS, MS, PhD⁴

Ceramic-veneered zirconia framework的本體是夠穩固的，但是要注意chipping的機率非常高(大約90%)

20171211 臨時全口固定假牙的CANTILEVER和 A-P SPREAD的RETROSPECTIVELY RECORD---DRAGO(2017)

Cantilever Lengths and Anterior-Posterior Spreads of Interim, Acrylic Resin, Full-Arch Screw-Retained Prostheses and Their Relationship to Prosthetic Complications

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

¹Gundersen Health System, LaCrosse WI

²Marquette University School of Dentistry, Milwaukee, WI

統計190個interim All-On-4，其CL/AP ratio大約在0.55，
經驗上會比較安全。

20180715 回顧800支BRANEMARK IMPLANT在ALL-ON-4 PROTOCOL的 SURVIVAL RATE---BALSHI(2014)

A Retrospective Analysis of 800 Brånemark System Implants Following the All-on-Four™ Protocol

Thomas J. Balshi, DDS, PhD, FACP,¹ Glenn J. Wolfinger, DMD, FACP,² Robert W. Slauch, BS,^{3,4}
& Stephen F. Balshi, MBE⁵

¹Founder and Prosthodontist, PI Dental Center at the Institute for Facial Esthetics, Fort Washington, PA

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⁴Dental Student, University of Maryland, Baltimore College of Dental Surgery, Baltimore, MD

⁵Director of Research, PI Dental Center at the Institute for Facial Esthetics; President, CM Prosthetics, Inc., Fort Washington, PA

All-on-4的植牙成功率約為97.3%，抽菸者失敗率高三倍
(2.1% VS 6.1%)

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

20

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
Luís Antônio Violin Dias Pereira, DDS, MSc, PhD²
Carlos Eduardo Francischone, DDS, MSc, PhD³
Bruno Salles Sotto-Maior, DDS, MSc, PhD⁴

According
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extractio

前牙立即植牙要注意buccal wall，diameter要看B-L的距離，如果小於7mm的寬度建議用3.5mm直徑植體

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

20170219 實際測量上顎前牙拔牙後的SOCKET WALL厚度---HUYNH-BA(2010)

CLINICAL ORAL IMPLANTS RESEARCH

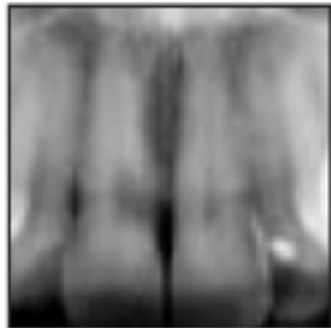
*Guy Huynh-Ba
Bjarni E. Pjetursson
Mariano Sanz
Denis Cecchinato
Jorge Ferrus
Jan Lindhe
Niklaus P. Lang*

Analysis of the socket bone wall dimensions in the upper maxilla in relation to immediate implant placement

上顎前牙拔牙後的buccal wall有87%小於1mm厚度

20170614 在上顎前牙做BONE SOUNDING的準確性---KAN(2017)

Accuracy of Bone Sounding in Assessing Facial Osseous-Gingival Tissue Relationship in Maxillary Anterior Teeth



Joseph Y. K. Kan, DDS, MS¹
Yoon Jeong Kim, DDS, MS²
Kitichai Rungcharassaeng, DDS, MS³
John C. Kois, DMD, MSD⁴

The facial
relationship
is one of
eventual
ing perio

上顎前牙做bone sounding的誤差值多半小於1mm，但是要考慮一些極端誤差的情況

20171130 對於植牙周圍軟組織的厚度及CRESTAL BONE LOSS的關聯性回顧---AKCALI(2017)

*Aliye Akcalı
Anna Trullenque-Eriksson
Chuanming Sun
Aviva Petrie
Luigi Nibali
Nikolaos Donos*

Review Article

What is the effect of soft tissue thickness on crestal bone loss around dental implants? A systematic review

統計的文獻不足以支持軟組織的厚度可以減少骨質流失

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

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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/Evangelina Sarnachiaro⁴
Sergio Luis Gotta⁵/Mark A. Reynolds, DDS, MS, PhD⁶
Hanae Saito, DDS, MS⁷/Dennis P. Tarnow, 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

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

²Department of General Dental Sciences, Marquette University School of Dentistry, Milwaukee, WI

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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

20170407 下顎IMMEDIATE LOADED IMPLANT OVERDENTURE的五年追蹤--- KRONSTROM(2017)

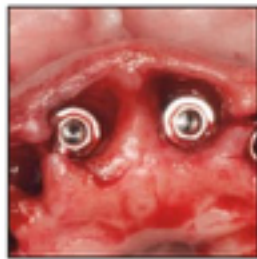
Satisfaction and Clinical Outcomes Among Patients with Immediately Loaded Mandibular Overdentures Supported by One or Two Dental Implants: Results of a 5-Year Prospective Randomized Clinical Trial

Mats Kronstrom, DDS, PhD¹/Ben Davis, DDS, Dip OMFS, FR²/
Robert Loney, DMD, MS³/Jack Gerrow, DDS, MS, Med⁴/Lars Hollender, DDS, PhD⁵

Immediate loading的下顎implant OVD，其植體若要失敗，一開始就失敗了，長期追蹤很難但是效果很好

20180227 在IMMEDIATELY LOADED FRESH SOCKET IMPLANTATION的B-L BONE REMODELING的CBCT研究---CRESPI(2018)

Buccal-Lingual Bone Remodeling in Immediately Loaded Fresh Socket Implants: A Cone Beam Computed Tomography Study



Roberto Crespi, MD, MS¹
Paolo Capparè, MD, MFS²
Giorgio Gastaldi, MD, DMD³
Enrico F. Gherlone, MD, DMD⁴

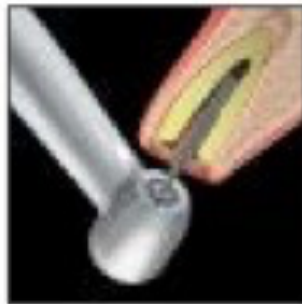
To avoid
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implan
ferent

Buccal side骨質就是會流失，統計上差異不大

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. Siormpas, DDS²

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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

20180217 LATE IMPLANT FAILURES ASSOCIATED WITH RETAINED ROOT FRAGMENTS CASE REPORTS---NEVINS(2018)

Late Dental Implant Failures Associated with Retained Root Fragments: Case Reports with Histologic and SEM Analysis



Marc L. Nevins, DMD, MMSc¹
Laureen Langer, DDS²
Peter Schupbach, PhD³

Osseointegration
long-term
depend on
tissue for
plant.

殘留的牙根貼在植體表面可能會讓骨頭吸收

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

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

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

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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DOI: 10.1177/0022034515616557
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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

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

20170209 對於REGENETIVE APPROACH TREATING PERI-IMPLANTITIS的系統性回顧--- KHOSHKAM(2016)

Long-term Radiographic and Clinical Outcomes of Regenerative Approach for Treating Peri-implantitis: A Systematic Review and Meta-analysis

Vahid Khoshkam, DDS¹/Fernando Suárez-López Del Amo, DDS, MS²/Alberto Monje, DDS, MS³/
Guo-hao Lin, DDS, MS⁴/Hsun-Liang Chan, DDS, MS⁵/Hom-Lay Wang, DDS, MSD, PhD⁶

Peri-implantitis的治療之系統性回顧，在X光上看起來有效
果，但是是真的新生骨質嗎？

20170503 PERI-IMPLANT DISEASE的發生原因及機轉的CRITICAL REVIEW---SALVI(2017)

Critical Reviews in Oral Biology & Medicine

Prevalence and Mechanisms of Peri-implant Diseases

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因為植體周圍的軟組織和自然牙不一樣，一旦有發炎，進展會比牙周病更快更猛

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

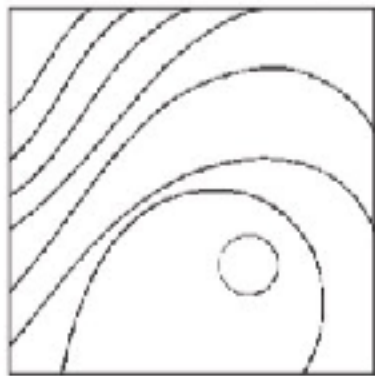


*Daniel W.K. Kao, DDS, MS, DMD¹
Joseph P. Fiorellini, DMD, DMSc²*

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

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

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

20170531 回顧不同年齡層的植體 失敗率---SENDYK(2017)

Review

Dental implant loss in older versus younger patients: a systematic review and meta-analysis of prospective studies

D. I. SENDYK*, E. S. ROVAI[†], C. M. PANNUTI[†], M. C. Z. DEBONI*,
W. R. SENDYK[‡] & A. WENNERBERG[§] **Department of Oral and Maxillofacial Surgery, Faculty of Odontology, University of São Paulo, São Paulo, [†]Division of Periodontics, Department of Stomatology, Faculty of Odontology, University of São Paulo, São Paulo, [‡]Department of Periodontology and Implantology, Faculty of Odontology, University of Santo Amaro, São Paulo, Brazil and [§]Department of Prosthodontics, Faculty of Odontology, Malmö University, Malmö, Sweden*

年紀應該不是植牙會失敗的因素之一

20170615 植牙後感覺異常的案例 整理---POLITIS(2017)

Report of Neuropathic Pain After Dental Implant Placement: A Case Series

Constantinus Politis, MD, DDS, MHA, MM, PhD¹/Jimoh Agbaje, BDS, DMD, FMCDs, MMI, PhD²/
Jeroen Van Hevele, MD, DDS, OMF³/Laura Nicolielo, DDS, MSc⁴/Antoon De Laat, DDS, PhD⁵/
Ivo Lambrichts, DDS, PhD⁶/Reinhilde Jacobs, DDS, MSc, PhD, Dhc⁷

植牙後感覺異常，最好是在48小時內移除植體，但是很多
情形下異常的原因不明

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

20180513 利用CBCT去計算下顎前牙 植牙區域的安全區域---VOON(2018)

CLINICAL RESEARCH

**Safe zone in anterior mandible related to the genial tubercle
for implant osteotomy in a Chinese-Malaysian population:
A CBCT study**



Yik Sze Voon, BDS^a and Pravinkumar G. Patil, BDS, MDS^b

下顎前牙區植牙安全距離，是genial tubercle向兩旁
20mm的範圍

關於植牙：GBR

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

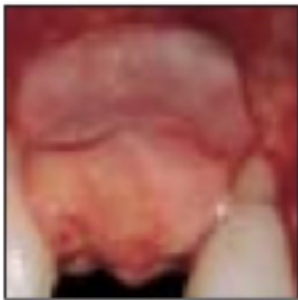
Marc L. Nevins, DMD, MSc⁴/Jamie L. Lozada, DDS, MS⁵

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

20170224 在鄰牙牙周狀況不好的單顆植牙的 PAPILLA REFORMATION---URBAN(2017)

Papilla Reformation at Single-Tooth Implant Sites Adjacent to Teeth with Severely Compromised Periodontal Support



Istvan A. Urban, DMD, MD¹
Perry R. Klokkevold, DDS, MS²
Henry H. Takei, DDS, MS³

The interdental
tremely import
esthetics that
when replacing
While replicati

鄰牙牙周狀況不佳，要先想好要怎麼補骨，補骨的量要很
足夠

20170613 在下顎做不同補骨方式的系統性回顧---ELNAYEF(2017)

Vertical Ridge Augmentation in the Atrophic Mandible: A Systematic Review and Meta-Analysis

Basel Elnayef, DDS, MS¹/Alberto Monje, DDS, MS²/Jordi Gargallo-Albiol, DDS, PhD³/
Pablo Galindo-Moreno, DDS, PhD⁴/Hom-Lay Wang, DDS, MS, PhD⁵/
Federico Hernández-Alfaro, MD, DDS, FEBOMS, PhD⁶

在下顎後牙區，補骨高度4mm之下，GBR比較起來是比較可靠的補骨方式

關於植牙：ABUTMENT

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

RESEARCH AND EDUCATION

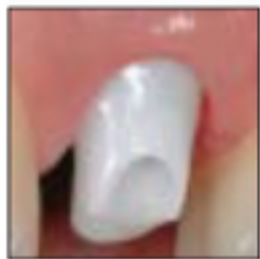
Assessment of reliability of CAD-CAM tooth-colored implant custom abutments

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

20170302 臨床評估ZIRCONIA ABUTMENT高度以及CONNECTION TYPE的可靠性---FABBRI(2017)

Clinical Evaluation of the Influence of Connection Type and Restoration Height on the Reliability of Zirconia Abutments: A Retrospective Study on 965 Abutments with a Mean 6-Year Follow-Up



Giacomo Fabbri, DDS¹
Mauro Fradeani, MD, DDS²/Gianluca Dellificorelli, DDS³
Marco De Lorenzi, DDS⁴/Fernando Zarone, MD, DDS⁵
Roberto Sorrentino, DDS, MSc, PhD⁶

Due to increasing patient demand for esthetics and the development of computer-aided design/computer-assisted manufacturing (CAD/CAM) technologies, the use

Restoration vertical height如果超過14mm，就有斷裂的風險性，要注意不要讓植牙牙冠高度過高

20170612 在做SCREW PRELOAD的方式及其 REMOVAL TORQUE的關係---AL- OTAIBI(2017)

The Effect of Torque Application Technique on Screw Preload of Implant-Supported Prostheses

Hanan Nejer Al-Otaibi, BDS, MSc¹/Ahlam Almutairi, BDS²/Jawza Alfarraj, BDS²/Wejdan Algesadi, BDS²

Implant abutment要上torque，目前的研究是連上兩次，
不是一直上torque就會越強，可能會有反效果

20170616 ABUTMENT的材質顏色和軟組織的厚薄對於美觀的影響---FERRARI(2017)

Influence of Abutment Color and Mucosal Thickness on Soft Tissue Color

Marco Ferrari, MD, DMD, PhD¹/ Michele Carrabba, DDS, PhD²/Alessandro Vichi, DDS, MS, PhD³/
Cecilia Goracci, DDS, MS, PhD⁴/Maria Crysanti Cagidiaco, MD, DMD, PhD⁵

軟組織大於2mm的厚度，即使是金屬的abutment也是可
以被遮色的

20171020 IMMEDIATE IMPLANT使用LOW-PROFILE ABUTMENT來增加PERI-IMPLANT SOFT AND HARD TISSUE STABILITY IN ESTHETIC ZONE---PELEKANOS(2017)

Immediate One-Time Low-Profile Abutment to Enhance Peri-implant Soft and Hard Tissue Stability in the Esthetic Zone



Stavros Pelekanos, DDS, Dr Dent¹
Georgia Pozidi, DDS²

Reductions in gingival height^{1,2} are observed after implant placement and loading. A clinical trial recorded

新式的low-profile abutment會更好用嗎？

20180404 在ABUTMENT SCREW留空間減少 EXTRUDED CEMENT的研究---AL AMRI(2018)

RESEARCH AND EDUCATION

**Influence of space size of abutment screw access channel on
the amount of extruded excess cement and marginal accuracy
of cement-retained single implant restorations**



Mohammad D. Al Amri, MS,^a Sulieman S. Al-Johany, MSD,^b Mohammed N. Al-Qarni, BDS,^c
Ahmed S. Al-Bakri, BDS,^d Nassr S. Al-Maflehi, MSc,^e and Haythem S. Abualsaud, MS^f

故意留下2mm的space可以減少cement extrude的情形

關於植牙：OVERDENTURE

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 Prostheses

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

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

20180308 評估IMPLANT OVERDENTURE 的效果SYSTEMIC REVIEW---ZHANG(2017)

Economic Evaluation of Implant-Supported Overdentures in Edentulous Patients: A Systematic Review

Qi Zhang, DDS, PhD^{1*}/Xin Jin, PhD^{2*}/Mengliu Yu, DDS, PhD³/Guoming Ou, DDS, PhD⁴/
Hiroyuki Matsui, DDS, PhD⁵/Xing Liang, DDS, PhD⁴/Keiichi Sasaki⁶

很難去客觀評斷，implant OVD 的經濟效益

關於植牙：其他相關

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

20170111 在IRRADIATED PATIENT的患者植牙的SYSTEMIC REVIEW---NOBREGA(2016)

SYSTEMATIC REVIEW

Irradiated patients and survival rate of dental implants: A systematic review and meta-analysis



Adhara Smith Nobrega, DDS,^a Joel Ferreira Santiago, Jr, DDS,^b Daniel Augusto de Faria Almeida, DDS,^c Daniela Micheline dos Santos, DDS,^d Eduardo Piza Pellizzer, DDS,^e and Marcelo Coelho Goiato, DDS^f

在做過放射線治療的患者，整體植牙成功率有八成，但是
仍要審慎的評估

20180717 3D-PRINTED GUIDE做LATERAL APPROACH SINUS GRAFTING--- GOODACRE(2018)

DENTAL TECHNIQUE

A 3D-printed guide for lateral approach sinus grafting: A dental technique



Brian J. Goodacre, DDS,^a Rajesh S. Swamidass, DDS,^b Jaime Lozada, DDS,^c Aladdin Al-Ardah, DDS, MS,^d
and Erik Sahl, DDS, MSD^e

3D printed guide來做側窗的技術是可信賴的

謝謝聆聽，請多指教

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YEHC
假牙贗復學

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