Porcelain Veneers Success Using Supra-gingival Dentistry Jose Luis Ruiz DDS, FAGD Director of: LOS ANGELES INSTITUTE of ESTIMATE SEMINARS











Traditional Sub-gingival Crowns Are Destructive & Difficult & Short Lasting

















But Only If We Use Supra-gingival, Minimally-invasive Techniques

W	hat is Success with Pord Veneers?	celain	
	Satisfaction int Esthetic/Restorative Results rity	No.	









What Failed?

Diagnosis I Key to Success with... Treatment acceptance Treatment planning sequence Treatment results

- Longevity...



- Understand how to Perform Proper Diagnosis, Design & Communication with Patient.
- Understand of specific requirements of restorative materials, bonding systems & proper techniques.
- How to Manage Occlusion for Longevity.



Ruiz JL Achieving Longevity in Esthetics by Proper Diagnosis and Management of "Occlusal Disease". 2007 Contemporary Esthetics Vol 11 (6): 24-30









Disclosure

Jose-Luis Ruiz DDS

Full Time Private Practice, Los Angeles CA
Director, of the Los Angeles Institute of Esthetic Dentistry
CE Course Director, USC School of Dentistry
Instructor, Gordon Christensen's PCC in Utah
Honorary Professor, Warwick University, UK
Associate Editor, Dentistry Today

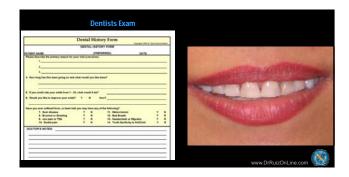
- Unpaid clinical evaluator CR(A)
- Do Not receive honorarium from an company!
- Past and Present Unpaid Clinical Consultar 3M ESPE; Heraeuz Kulzer; Sirona; VOCO; Kuraray; Den-Mat; Sybron Kerr; Dentsply, and many others.

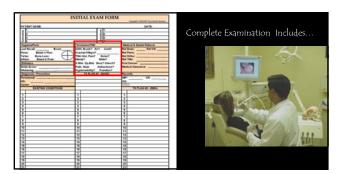
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• "JD".& occlusion mixed together. It is made to be too complicated. Population not educated about OD

perform an occlusal examination routinely as part of

"Unnecessary data gathering cannot be regarded as measurement of thoroughness."

McNeill C. Science and Practice of Occlusion Quintessence Books

"L.D. Pankey wrote that only 2% of dentist...can diagnose, plan treatment and motivate patients to provide a comprehensive treatment plan."

- Stage 2 Occlusal and TMJ Examination (as needed and accepted by patients)
- Stage 3 TMJ Examination or Referral to local expert



Ruiz JL. Occlusal Disease:Restorative consequences and Patient Education. Dentistry Today 2007Sep 26(9):90-95 Ruiz JL Achieving Longevity in Esthetics by Proper Diagnosis and Management of "Occusal Disease". 2007 Contemporary Esthetics Vol 11 (6); 24:30
Ruiz JL. CoCuman TA. Occlusal Disease Management System: The Diagnosis Process. Compendium 2008 Vol. 29 No. 3

7 Signs and Symptoms of Occlusal Disease

- Pathological tooth wear, chipping or fractures
- Tooth hypersensitivity
 Tooth hypermobility

- Severe localized bone destruction (secondary to periodontal disease)
 - Muscle pain and TMJ pain.

Ratcliff S. Becker IM. et al. Type and Incidence of Cracks in Posteror Teeth. J Prosth Dent: 2001;86:168



- Pathological tooth wear, chipping or fractures
- Tooth hypersensitivity
 Tooth hypermobility
- Fremitus
- Abfractions
- Severe localized bone destruction (secondary to periodontal disease)
 Muscle pain and TMJ pain.



- Pathological tooth wear, chipping or

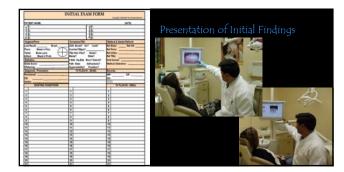


Gremillion HA. The relationship between occlusion and TMD: An evident-based discussion. J Evid Dent Pract 2006;6:43-47

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"Occlusal Disease Diagnosis System" • Stage 1 Initial Occlusal Evaluation (all patients) • Stage 2 Occlusal and TMJ Examination (as needed and accepted by patients) • Stage 3 TMJ Examination or Referral to local expert Ruiz Jl. Occlusal Disease:Restorative consequences and Patient Education. Dentistry Today 2007Sep 25(9):90-95 Ruiz Jl. Achieving Longovity in Esthetics by Proper Diagnosis and Management of "Occlusal Disease". 2007 Contemporary Esthetics Vol 11 (6): 24-30 Ruiz Jl. Coleman TA. Occlusal Disease Management System: The Diagnosis Process. Compendium 2008 Vol. 29 No. 3

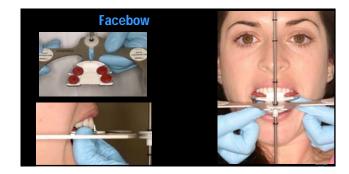


The Purpose of The Record Taking Visit is... To gather necessary information for final diagnosis. Permits an opportunity for communication of goals and limitations. Has 2 components...the occlusal portion (function), esthetic portion.

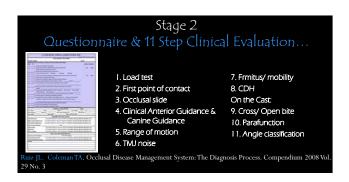






















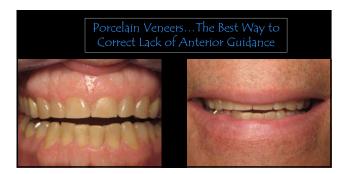
































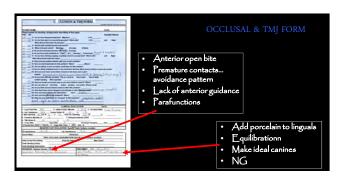






























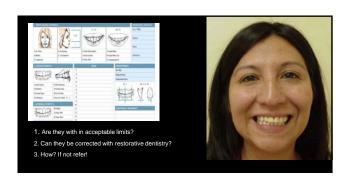


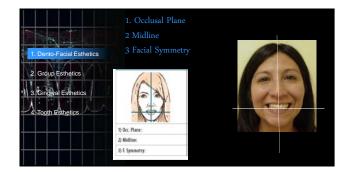








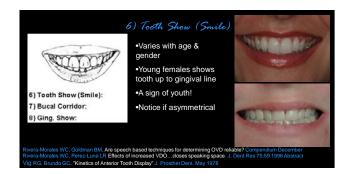


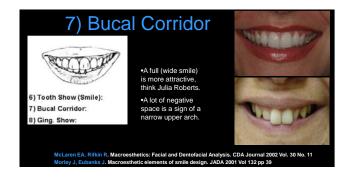
























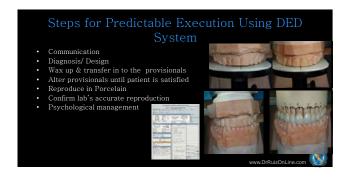
















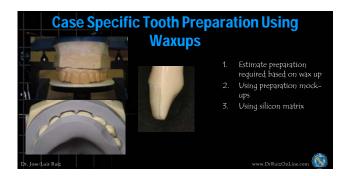






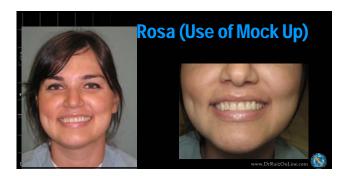


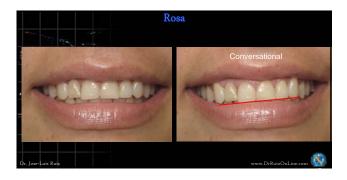
























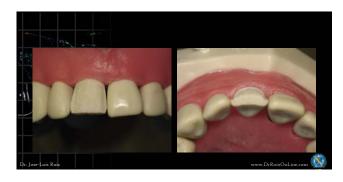
























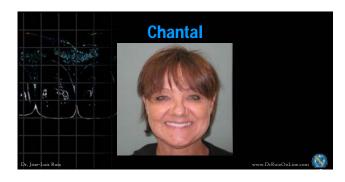


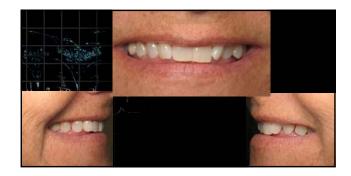












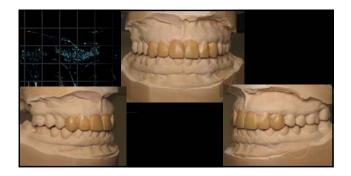
















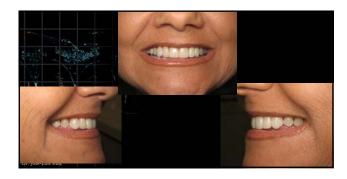






































Open Embrasures & Diastemas			
Dr. Jose Luis Ruiz	startic de de grant en adjunction de las startes de la comparison de la c	A Company of the Comp	www.Dritaiconline.com



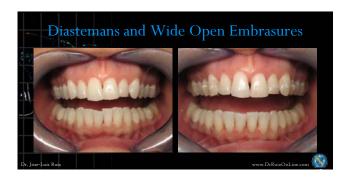


























































































5. Choosing Restorative Material & Color

Color...

The final color on Veneers is a combination of:

- Tooth color
- Cement Opacity
- Restoration color & opacity



Preoperative Bleaching



- Always bleach before veneers.
- Do not cement veneers within 2 weeks.
- Bleach after veneers if there color difference.

Preoperative Bleaching Always bleach before veneers. Do not cement veneers within 2 weeks. Bleach after veneers if there color difference.

















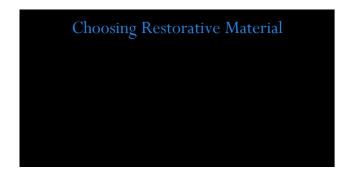












Metal-free Options for Anterior Esthetics Restorations • Direct composite • No prep Veneers (Lumineers) • Minimal prep Veneers (layered porcelain) • Deep prep or 360 Veneers (pressable) • Full crown PFZ, cemented





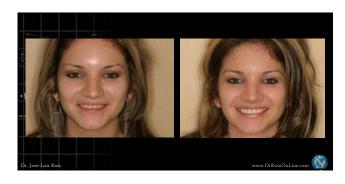


BONDED INDIRECT PORCELAIN		
Layered Feldspathic Intrinsic color Thin (from 4) More skill technician needed Slightly less strong?	Pressable Feldspathic & Lithium D Monochromatic 1-1.5 mm of space needed Easier technique for tech. Slightly more Strong	
78910		

BONDED INDIRECT NON-METAL		
Layered Feldspathic VenusCeram d.SIGN Ceramco 3 Creation Noritake Finesse Cerinate	Pressables Feldspathic Empress VenusCeram Pressable Cerinate pressable OPC Finesse Pressable Authentic Pressable	
Vitadur Alpha	Lithium Disilicate	
• Etc.	E-max HT	





































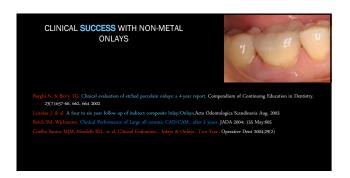
























2 Years laterLongev	vity?
	1
10	

PFZ When?

- Dark teeth
- Deep preparations (no enamel)
- Sub-gingival margins



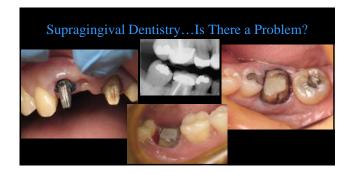


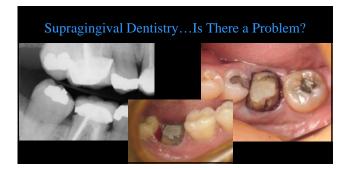
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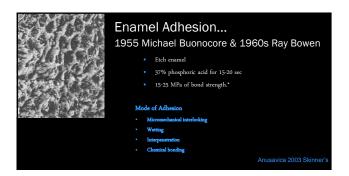




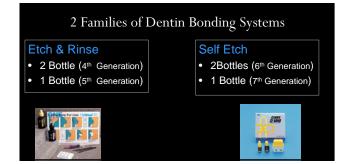




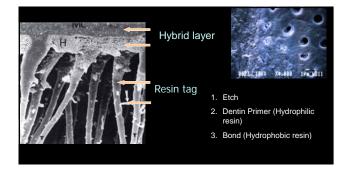


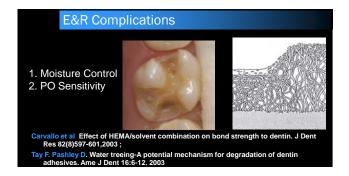














PO Sensitivity!!! CRA December 2003 Vol. 27 issue 11/12 Survey 4446 Dentist: No post-op sensitivity: SE 24% & TE 12% More than 11% Severe Sensitivity: SE 4% & TE 17% Berkowitz G, Horowitz A et al. Postoperative hypersensitivity in class 1...lia general practice, Interim results. Compendium 2009 Vol 30:6:356-363 Pendigos J, et al Total Etch versus Self Etch Adhlesives, Effects on Postoperative sensitivity JADA December 2003







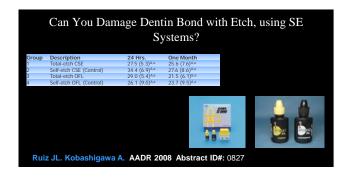




SE Bond Strength To Dentin?	
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25.46 MPa	
Cura C. & al Effect of different bonding agents on shear bond strengths of composite-bonded porcelain to enamel. Journal of Prosthetic Dentistry. 89(4):394-9, 2003 Apr.	
bonded porcelain to enamel. Journal of Prosthetic Dentistry, 89(4):394-9, 2003 Apr. Turkun LS. The clinical performance of one and two step self etch adhesive systems at one year. 2005 JADA Vol.136 May: 656	
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LongevityDegradation of Bond to Dentin	
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Tay F. Pashley D Water treeing- a potential mechanism for degradation of dentin adhesives. Am J Dent 2003 Feb;16(1):6-12	
Armstrong SR, Vargas MA, et al. Rein-dentin ultrastructure and MT dentin Bond strength after 5 year. Operative Dent 2004; 29(6):705-712 Burrow MF, Harada N et al. Seven year dentin bond strength of a total and saff-etch system. Eur J Oral Sci 2005; 113:265-270 Yamasit M, Hashimoto M, et al. Degradation of reism-dentin bonds using NAOCI storage. Dental Materials. 19(5):399-405, 2005 Jul	
Fatigue TestingDegradation of Bond to Dentin	
Humans Chew an estimated 2700 cycles per day	
2700 Cycles per day	
Asset Control	
Marc Braem Microshear fatigue testing of tooth adhesives interface. Journal of adhesive Dent 2007 Vol 9 Supplement 2	
Waidyasekera K, Nikaido T et al. Reenforcement of dentin in self etch adhesive technology: a new concept. J of Dent 2009; 37:604-609	
Armstrong SR, Vargas MA, et al. Resin-dentin ultrastructure and MT dentin Bond strength after 5 year Operative Dent 2004; 29(6);705-712	

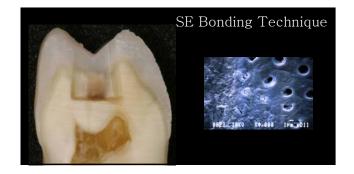
Etch Enamel with SE?... The Weak Link J.L. Ruiz, W. Finger, T. Endo Conventional and self-etching adhesive effects on retention of luting resins Abstract IADR 2004 Perdigao J. et al Enamel sealing ability of self-etch adhesives, IADR Abstract #0360 2008 Fabianelli A. & al Efficacy of self-etching primer on sealing margins of Class II restorations American Journal of Dentistry. 16(1): 2003.





Cement & Bond Individually Cured vs. Simultaneously Cure | DC Bond & Esthetic Cement | 24 Hours | 24 Hours | 23.8 (4.4) (31A/69C)¹⁶ | 45.8 (5.5) (39A/61C)²⁶ | 27.2 (5.9) (56A/44C)²⁶ | 47.2 (5.9) (56A/44









Conclusions SE Vs E&R Bonding Systems
Engendered to Allow for
predictable Clinical Success
•Strong adhesion
•Less post-op sensitivity
•Proper seal
•Ease of use
 Durability

7 Step by Step Bonded Cementation	
Step by Step Cementation	
A Company of the Comp	
Place All Veneers with Water or Clear Try-in Paste	





















Final Cure Using Oxygen Inhibitor	 Oxygen Inhibited layer is up to ½ mm thick. Could lead to margin ditching.
JELLY/GELÉE Personal Lubricant	WEEDLY.
Lubrifiant personnel #1 Doctor Recommended Brand	SoftFlex Disk (3M ESPE) Dia-lite (Brasseler)























Thank you	
Ruiz@DrRuiz.com	