

Porcelain Veneers Predictability & Longevity by Using The Dento-Facial Esthetic Diagnosis System & The Occlusal Disease Diagnosis System

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THE SMILE

Emotional Effect

Ruiz JL The Psychology of the Smile Journal of Cosmetic Dentistry December 2003

Coffield KD, Phillips C, Brady M et all. The psychosocial impact of amelogenesis imperfecta JADA Vol. 136 PP 620-30 May 2005

What Does it Take to Achieve Predictable Results with PV?

1. Proper Diagnosis, Design & Communication
2. Proper Tooth Preparation and Adhesion Procedures.
3. Understanding of Occlusion

1. Proper Diagnosis, Design & Communication

Team Driven NP Visit:

- Chief Complaint
- History of present illness
- Personal history
- Social history
- Medical history
- Dental history

J. LUIS RUIZ, DDS & ASSOCIATES, INC.			
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DENTAL HISTORY FORM			
PATIENT NAME:		(PREFERRED):	DATE:
Please describe the primary reason for your visit (concerns):			
1. _____			
2. _____			
3. _____			
4. How long has this been going on and what would you like done?			

5. If you could rate your smile from 1 - 10, what would it be? _____			
6. Would you like to improve your smile? Y N How? _____			

Have you ever suffered from, or been told you may have any of the following?			
7. Gum disease	Y	N	11. Malocclusion
8. Bruxism or Grinding	Y	N	12. Bad Breath
9. Jaw pain or TMJ	Y	N	13. Headacheds or Migrains
10. Dental pain	Y	N	Y N
DOCTOR'S NOTES: _____			

Team Driven Record Taking Visit

Face bow mounted cast

CR Bite

Perio Charting

Panorex

FMX

11 Photos

Occlusal & TMJ Analysis

When is Occlusion Important?

When signs or symptoms of OD are evident

When extensive restorative Dentistry is being planned!!!

Important... Why So Ignored?

- No Available Practical Occlusal Education"... Occlusion education is for "full mouth rehabilitation"
- "Joint Disease" & Occlusion mixed together.
- It is made to be too complicated.

- Population not educated about OD

What All Agree on...

1. Bilateral even contacts.
2. Posterior discclusion (anterior guidance & canine rise).
3. Unobstructed envelop of function.

“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

Stage 1...

7 Signs and Symptoms of Occlusal Disease

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.

INITIAL EXAM FORM		
PATIENT NAME:		DATE:
Concerns	1.	1.
	2.	2.
	3.	3.
	4.	4.
Solutions		
Hygiene/Perio		Medical & Dental Referral
Last Recall: _____ Brush	CDH: Brush? Air? Cold?	Ref Endo: _____ Ref OS: _____
Floss: _____ Bleed w Flos: _____	H.aches? Migra? _____	Ref Perio: _____
Tartar: _____ Bone Loss: _____	TMJ Hist. Pain? _____ Noise? _____	Ref Ortho: _____
Inflam: _____ Bleed U Prob: _____	Manip? _____ Slide? _____	Ref TMJ: _____
Esthetics		Oral Cancer: _____
Smile Score: _____	X Bite Op.Bite Brux? Clench?	Medical Clearance: _____
Whitening: _____	Path. Wear Abfractions?	
	Hypermobility? Fremitus?	
Diagnosis / Prevention		Records
TX PLAN #1 - BASIC		MIP: _____ CR: _____
Periodonal: _____		OD: _____
OD: _____		DFED: _____
Caries: _____		
EXISTING CONDITIONS		TX PLAN #2 - IDEAL

Stage 2

Questioner & 11 Step Clinical Evaluation...

1. Load test
2. First point of contact
3. Occlusal slide
4. Clinical Anterior Guidance & Canine Guidance

- 5. Range of motion
- 6. TMJ noise
- 7. Frmitus/ mobility
- 8. CDH
- On the Cast:
- 9. Cross/ Open bite
- 10. Parafunction
- 11. Angle classification

OCCLUSION & TMJ FORM I	
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PATIENT NAME: _____	DATE: _____
Please answer by checking, circling and/or describing all that apply:	
YES NO	PLEASE CIRCLE
_____ 1) Do you have frequent headaches? Migrains? _____ 1-10? _____	
_____ 2) Do you have pain in or around the jaw joint? Which side? _____ 1-10? _____	Left Right
When did you first notice the jaw pain? _____	
_____ 3) Has the pain recently become more severe?	
_____ 4) When is the pain worse? Mornings Evenings At Meals	
_____ 5) Do you have tired jaw muscles? Mornings Evenings	
_____ 6) Do you have tooth sensitivity to: Cold?__ Air?__ Chewing?__ Tooth/Teeth?_____	
_____ 7) Do you have clicking, popping, or grating noises in your jaw joint? Which side? _____	Left Right
When did you first notice the noise? _____	
_____ 8) Does your jaw problem interfere with your normal activities?	
_____ 9) Have you had treatment(s) for this problem? When? _____Where? _____	
_____ 10) Are you taking, or have you taken, medication for this problem?	
_____ 11) Are you taking antidepressants or any medication that may affect muscle activity or cause dry mouth?	
_____ 12) Have you ever had a severe blow or trauma to the head, neck or jaw?	
Explain: _____	
_____ 13) Do you have difficulty chewing? This is a result of: Pain in joint Pain in teeth	
Limited opening Other (specify): _____	
_____ 14) Has your mouth ever locked open so you were unable to close it? When? _____	
_____ 15) Are you aware of: clenching and/or: grinding your teeth? (Please circle)	
_____ 16) Do you think nervous tension seems to affect this problem?	
_____ 17) Have there been recent changes in your lifestyle or other stressful events?	
_____ 18) Have you had problems with other joints? Pain? _____	
_____ 19) Have you had orthodontic treatment? When? _____	
_____ 20) What are your main Goals for "Occlusal" & TMJ treatment? _____	

CLINICAL EVALUATION	
DATE: _____	
1. Load Test Pain _____	2. Initial Contact (Mouth) _____
3. Occlusal Slide _____	
4. Ant. Guidance _____	Canine Guide. R: _____ L: _____
5. Max Opening _____	Lat. R: _____ L: _____ Pain On: Opening: _____ R: _____ L: _____
6. Fremitus:Mobility 2+ _____	7. CDHypersesitivity (CDH) _____
8. TMJ Noise R: _____	L: _____
9. Cross Bite: _____	Open Bite: _____ Envelope Violation _____ Ant: _____ Post: _____
10. Parafunction: Brux Clench	11. Angle Bite Class: I IID1 IID2 III
MOUNTED CAST EVALUATION / Specify Tooth, Surface, Location	
CR Interference: _____	Lat. Interference: _____
Protrusive: _____	
Severe Wear: _____	Abfraction: _____
TRIAL OCCLUSAL EQUILIBRATION (Specify tooth, surface, location)	
Initial Incisal Pin Setting: _____	Final Pin Setting: _____
Bite Close? _____	
Teeth Needing Plasty: _____	
Teeth Needing Restoration: _____	
DIAGNOSIS: Dawson Cla:ass I II III IV	TREATMENT
_____	_____
_____	_____

The Potential...

What will it do for you & your practice .

What will it do for your patients.

What will it do for you!

Dento-Facial Esthetic Diagnosis System

1. Occlusal Plane:
2. Midline:
3. Facial Symmetry:
4. Lip Position:
5. Facial Lateral Thirds:
6. Tooth Show (Smile):
7. Bucal Corridor:
8. Gingival Show:
9. Incisal Plane:
10. Incisal Plane T Lip:
11. Conversational TS:

GROUP ESTHETICS

12. Axial Incline:
13. Rotation:
14. Crowd/Space:
15. Embrasure:
16. US Inclination:
17. Esthetic Zone:
18. Over jet/ Overbite:
19. Lateral Occlusal Plane:

GINGIVAL ESTEHTICS

20. Papilla:
21. Gingival Symmetry:
22. Gingival Biotype:

TOOTH ESTHETICS

23. Shade:
24. Shape/Style:
25. Ration:

DENTO-FACIAL ESTHETIC DIAGNOSIS FORM

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Patient Name:	Date:	PT Self Smile Score:
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PATIENT'S MAIN CONCERNS	REFERRAL TO
1.	Endo:
2.	Perio:
3.	Ortho:
4.	OS:
Pt. Esthetic Expectations:	TMJ:

1. DENTO-FACIAL ESTHETICS				DIAGNOSIS / ETIOLOGY
				Occ/TMD: Caries: Perio: Esthetics:
1) Occ. Plane:	4) Lip Position:	6) Tooth Show (Smile):	9) Incisal Plane:	
2) Midline:	5) Facial L. 3dr:	7) Bucal Corridor:	10) Incisal Plane T Lip:	
3) F. Symmetry:		8) Ging. Show:	11) Conversational TS:	

2. GROUP ESTHETICS	IDEAL	MAINTENANCE AND PREVENTION
	1) 2) 3) 4) 5) 6) 7) 8) 9) 10) 11) 12) 13) 14) 15) 16) 17) 18) 19) 20) 21) 22) 23) 24) 25) 26) 27) 28) 29) 30) 31) 32) Whitening: Y N	OCC/TMJ: Rampant Decay: Compromised Perio: VDO: #2, 7 #6, 11, 4, 18
12) Axial Incline: 16) UA Inclination: 13) Rotation: 17) Esthetic Zone: 14) Crowd/Space: 18) O_Jet/O_Bite: 15) Embrasure: 19) Lat. Occ. Plane: R L		ADDITIONAL TREATMENT
3. GINGIVAL ESTHETICS		Option 1:
20) Papilla: 21) Ging. SYM: 22) Ging. Biotype:		Option 2:
4. TOOTH ESTHETICS		Option 3:
23) Shade: Desired: 24) Shape/Style: 25) Ratio:		
LAPSE TX SEQUENCE		
Wax Up: Custom Temps:		

Tooth Preparation

Incisal Reduction Depend on Wax-up



Managing Open Gingival Embrasures



Oraseal Caulking (Ultradent)
Liquidam (Discus Dental)
Pink Gingiva Cast

Which Porcelain?

Layered Feldspathic

- Intrinsic color
- Thin (from .4)
- More skill technician needed
- Slightly less strong?

Pressable

- Monochromatic
- 1- 1.5 mm of space needed
- Easier technique for tech.
- Slightly more strong (very slightly)

BONDED INDIRECT ONLAYS. INLAYS?

Clinical Succes...Metal Free Inlays and Onlays.

Ruiz JL, Christensen GJ, Sameni A et al.

Clinical Performace of Bonded Porcelain and Composite Inlays and Onlays, using a Self Etch Bonding System, in a Busy Private Practice at 4 and 5 years.

Inside Dentistry May 2007.



Cementation Of Veneers

Resin Cements

Bonding Systems

Total etch

Total Etch versus Self Etch Adhesives, Effects on Postoperative sensitivity Perdigao J, et al JADA December 2003

Self Etch

Advantages? Forgiving!!!

Tay FR, Gwinnett AJ, Wei SHY. Micromorphological spectrum for over drying to oversetting acid condition dentin...Dental materials 1996;12:236-

Perdigao J, et al Total Etch versus Self Etch Adhesives, Effects on Postoperative sensitivity JADA December 2003

Werner J.F. & Tani C. Journal of Adhesive Dentistry. 4(4):277-82, 2002

SE Bond Strength To Dentin?

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.

Turkun LS. The clinical performance of one and two step self etch adhesive systems at one year. 2005 JADA Vol.136 May: 656

Etch Enamel with Self Etch Bonding Systems?

J.L. Ruiz, W. Finger, T. Endo Conventional and self-etching adhesive effects on retention of luting resins Abstract IADR 2004

Fabianelli A. & al Efficacy of self-etching primer on sealing margins of Class II restorations American Journal of Dentistry. 16(1): 2003 .

Bonded Cementation Technique

Place All Veneers with Water or Clear Try-in Paste
Adjust Contacts

BEST PORCELAIN
TREATMENT?_____

Effect of ceramic surface treatment on tensile bond strength to resin cement. A. Della Bona et. Al Int. Jour. of Prostho Nov. 2002

Tissue
Management...Hemostasis_____

O'Keefe KL, Pinzon LM et al. Bond strength of compoistes to astrigent-contaminated dentin using self etch adhesives. Am J Dent 2005; 18 (3):168-172

Rubber Dam?

Thordrup M, Isidor F, Horsted-Bindslev P. A 5 year study of direct and indirect resin composite and ceramic inlays. Quintessence Int 2001;32(3):199-205

Reich S, Wichmann M, Rinne H, et al. Clinical performance of large all ceramic CA-CAM generated restorations 2004 JADA Vol. 135, May 605-612

Cement 2 at a Time

Initial Cement Removal # 12 Blade



Occlusal Adjustment

Thank you

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