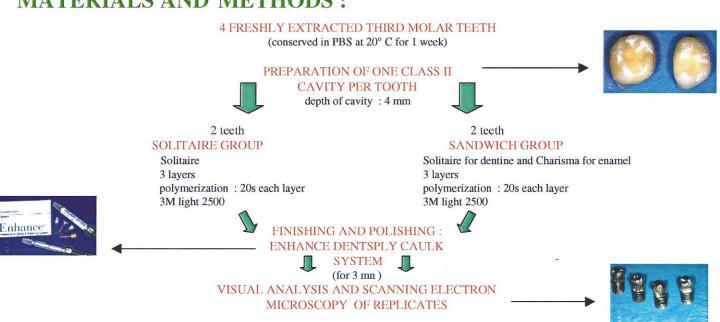
STUDY OF A SURFACE QUALITY AFTER A DIRECT COMPOSITE POSTERIOR RESTORATION. VERNET* F.; PELISSIER B. UFR Montpellier

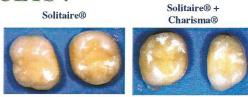
OBJECTIVE OF THE STUDY: comparative procedure of posterior composite restorations with direct clinical applications.

MATERIALS AND METHODS:



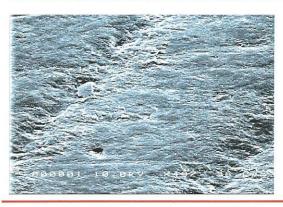
RESULTS:

Visual results



	Solitaire®	Solitaire® + Charisma®		
Dry	Matt	Shiny		
Wet	No difference			

Solitaire® Scanning electron microscopic observations Solitaire® + Charisma®





CONCLUSIONS:

The sandwich technique allows a better surface quality and consequently a better esthetic, functional and biological integration with direct clinical application. We have programmed a prospective in vivo study.

ADR/CED 35th ANNUAL MEETING

Mail form to : Prof D. DEVILLE de PERIERE. Université Montpellier I - Faculté d'Odontologie 545, Av. du Pr J.L. Viala BP 3405 34193 Montpellier cedex 5 - FRANCE

Deadline for submission April 1st, 1999

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Study of a surface quality after a direct composite posterior restauration F. VERNET*, B. PELISSIER (U.F.R. d'Odontologie Montpellier I).

The amalgam is going to be progressively replaced by condensable composite materials, according to direct techniques, and used in accordance with strict protocols of adhesive dentistry. The surface quality of the alternative materials to amalgam is inferior to the tradional composites. This study aims to analyse the surface state in vitro after polishing a posterior restauration, according to two differents techniques. For this purpose, class II restaurations were achieved on 4 wisdom teeth newly extracted from one individual. On the first two teeth, restaurations have been carried out with Solitaire ® Heraeus Kulzer only. On the two remaining teeth, which represented a second group, restaurations have been achieved according to the sandwich technique : Solitaire ® Heraeus Kulzer for the dentin and Charisma ® Heraeus Kulzer for the enamel. Restaurations have been polished by the Enhance ® Dentsply Caulk system. As far as the in vitro electronic microscopic analysis (M.E.B.) is concerned, duplicatas of the restaurations were made and observed. The results show a better result for the second group (the sandwich technique), mainly because of the composition differences and of the charges of both products. Therefore, the sandwich technique allows a better surface quality and consequently a better aesthetic, fonctional and biological integration.

Presenter Information: (Type or print legibly in black or blue ink.)	5. Area (a)		Review (check only one) : Behavorial Sciences/Health Services Research	7. Do you wish to withdraw your abstract if you do not get the mode of your choice? (1) yes (2) no	
 Complete name and mailing address of the PRESENTER. All correspondence will be mailed to this address. 	(b) (c) (d)		Cariology Research Craniofacial Biology Dental Materials : I-Adhesion	8. Are your interested in being a session chair or co-chairperson? (1) yes (2) no	
Name: VERNET In care of: Students give cooperating instructor's name) Univ./Co.: Faculté d'Odontologie			& Bonding Dental Materials : II-Ceramics & Cements Dental Materials : III-Polymers Dental Materials : IV-Other Diagnostic Systems Experimental Pathology Geriatric Oral Research	9. List five descriptors by number (see reverse	
				side). If existing descriptors do not fit your research, then write one new word under « Other ».	
				(1) 110 (2) 809 (3) 715 (4) 957	
de Montpellier Dept: Histology	(j) (k) (l)		Implantology Research Microbiology-Immunology	(5) 187 (write numbers) Other Microscopic Study	
Street Address: 545, avenue du	(m) (n) (o)		Infection Control Mineralized Tissue Neuroscience TMJ	10.1 have proofread this abstract, and	
Pr. JL. Viala		(p)	Nutrition Oral & Dental Hygiene Oral & Maxillofacial Surgery	understand the obligation of submis sion.	
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ORAL AND POSTER SESSIONS

- Influence of Streptococcus mutans on residual functions of hybrid composite.

 VALCARCEL J.*, TRAMINI P., PELISSIER B., BILAK R., MICHAILESCO P.M., ABADIE M., and LERNER D. Faculty of Odontology Montpellier I et II ENSCM, Montpellier FRANCE.
- Contamination of toothbrushes: a longitudinal study.

 PINSARD-SOLHI H.* (1), MOISAN. X. (1), SIXOU J.L. (1), MINET J. (2), FINIDORI C. (3), BONNAURE-MALLET M. (1) (1) Equipe de Biologie Buccale UPRES EA 1256 Université de Rennes (2) Dept. of Bacteriology, CHR Rennes (3) Synthelabo OTC, Plessis Robinson, FRANCE

Saturday, September, 25th

Poster Session (Bibliothèque) 15:00 - 18:30

Dental Materials – Polymers and Other

Chair: G. DONDI DALL'OROLOGIO

- Co-Chair : Tr. PAPADOPOULOS
- 323 **Study of a surface quality after a direct composite posterior restauration** VERNET F.*, and PELISSIER B. U.F.R. d'Odontologie Montpellier I FRANCE.
- Hydrophilicity of different silicone impression materials in the application phase
 WÖSTMANN B.* (1), and KNISPEL G. (2) (1) Department of Prosthodontics, Justus-Liebig-University, Giessen (2) Scientific Department, Heraeus-Kulzer GmbH & Co.KG, Dormagen, GERMANY.
- Evaluation of new material for treatment of periodontitis

 CHOMYSZYN GAJEWSKA M.*, PAMULA E., BLAZEWICZ M. Jagiellonian Univ.Dept.of

 Conservative. Dentistry & Periodontology.- Univ.of Mining & Met., Dept.of

 Adv.Ceramics, Cracow, POLAND.
- A SEM Analysis of a New Kind of Megafiller.

 ANDREASI BASSI M.*, ESPOSITO A., CITO C., and GORACCI G. Univ. of Rome «La Sapienza», Dept. of Operative Dentistry, ITALY.
- Measure of the Thickness of Some Commercially Available Composite Cements.

 ANDREASI BASSI M., ESPOSITO A.*, MORI G., and GORACCI G. Univ. of Rome «La Sapienza», Dep. of Operative Dentistry, ITALY.
- Analysis of the Mechanical Performances of Two Flow-able Composite Resins.

 ANDREASI BASSI M., FRASCHETTI G.*, GORACCI G., and BEDINI R. (1) Univ. of Rome «La Sapienza», Dep. of Oper. Dent.- (1) Superior Health Institute, ITALY.
- Influence of Environment on The Hardness Performance of «Condensable» Composites at 24hrs.»

 ALBERGO G.*, ACCARISI E., BEDINI R., (§) MARRONE A.C., SAMPALMIERI F. Dental Materials Dept University of Ancona (§) Biomedical Engineering Lab. ISTISAN Rome, ITALY.
- Flexural strength of composites cured with a plasma/halogen light source.

 BOSCHIAN L.*, RITZMANN J., and GAGLIANI M. University of Milan, Dept. Med, Surg and Dent San Paolo, Dental School, Milan, ITALY.