39th Annual Conference of the European Prosthodontic Association

September 3–5, 2015
Prague, Czech Republic



www.epa2015.cz **www.epadental.org**

39th Annual Conference of the European Prosthodontic Association

Conference is held under the auspices of the
Rector of Charles University in Prague

Organizer:
Czech Society of Prosthetic Dentistry
in the cooperation with
Czech Dental Chamber

September 3–5, 2015
Prague, Czech Republic

© Czech Society of Prosthetic Dentistry and Czech Dental Chamber
Prague, Czech Republic
1st edition, September 2015
ISBN 978-80-260-8581-2

Poster Presentation No. 69
Measurement of overbite and overjet using digital 3D

Päivi (Hannele) Jussila, L. Bukovac, H. Kiviahde, K. Sipilä, A. Raustia
University of Oulu, Faculty of Medicine, Institute of Dentistry, Finland

Purpose: To evaluate accuracy of measurements of overbite and overjet made on digital 3D models with measurements made on conventional dental casts.
Materials and Methods: The sample comprised of 30 sets of study models of subjects randomly selected from Northern Finland 1966 Birth Cohort (Sipilä et al., 2006). Dental casts placed in intercuspal position were scanned by 3Shape® 3D Scanner®. Measurements of overbite and overjet were done on conventional dental casts using digital calliper and on 3D digital models using 3Shape® Ortho Analyser software®. Measurements were performed in frontal and sagittal view. All the measurements were repeated in two weeks.
Results: Mean error between repeated measurements on digital models was 0.13 mm (range 0.00–0.45 mm) for overbite and 0.15 mm (range 0.00–0.86 mm) for overjet. Mean error in manual measurements was 0.21 mm (range 0.00–0.58 mm) for overbite and 0.27 mm (range 0.02–0.82 mm) for overjet.
Conclusions: It can be concluded that measurements performed on digital 3D models show better accuracy and repeatability compared to manual measurements of overbite and overjet.

Poster Presentation No. 70
Comparison of three sintering methods

Hasan Murat Aydogdu, Murat Eskitascioglu
Yuzuncu Yil University, Faculty of Dentistry, Turkey

Purpose: To compare the sintering shrinkage of zirconia frameworks sintered with three different methods.
Materials and Methods: A CAI/CAD/CAM system (Cerec 3) was employed to produce 72 identical zirconia single crown frameworks on a cast metal mandibular molar abutment. All frameworks were milled by the same milling device (inLab MCXL) based on one digital design file. Occlusal and buccal dimensional measurements based on marked reference points were done with a Toolmaker's microscope. Four reference points were marked on each surface of the projection area and perimeter between four points were calculated. Frameworks were randomly assigned to three groups to be sintered with three determined programs with durations of 8 hours, 2 hours and 10 minutes. All dimensional measurements were repeated after sintering.
Results: Projection area and perimeter changes after sintering were calculated and the sintering shrinkage of zircoina frameworks for three sintering groups were compared. The occlusal surface shrinkage values of 8 hour, 2 hour and 10 minute sintering groups were -20.283%, -20.435%, -20.341% for perimeter and -36.437%, -36.693%, -40.217% for area respectively. Buccal surface shrinkage values of 8 hour, 2 hour and 10 minute sintering groups were -20.052%, -20.107% and -20.087% for perimeter and -36.064%, -36.075% and -36.065% for area respectively. Statistical analysis shows there is no significant difference between three groups ($p > 0.05$).
Conclusions: The sintering shrinkage of zirconia single crown frameworks with 8 hour, 2 hour and 10 minute sintering programs were comparable.

10. LIST OF THE MAIN AND PRESENTING AUTHORS

Name	Presentation	Page
Abbasov Elchin	P-162	139
Abdul Majeed Kais	P-24	70
Abolfazli Nader	P-43	80
Adimci Pinar	O-10	33
Agop-Forna Doriana	O-36	46
Aktas Guliz	P-126	121
Al-Haj Husain Nadin	O-22	39
Alharbi Nawal	O-24	40
Altuntas Merveal	P-132	124
Arnold Christin	P-63	91
Arslan Merve	P-12	64
Artopoulou Ioli Ioanna	O-45	50
Assila Layla	P-101	109
	P-131	124
	P-134	125
Ates Pinar	P-84	101
Ayca Tulga	P-109	113
Aydogdu Hasan Murat	O-48	52
	P-70	94
Ayse Gozde Turk	P-33	75
Ayyildiz Simel	P-144	130
Babi Stella	P-138	127
Baca Emrah	P-61	89
Barendregt Dick	O-40	48
Barták Petr	K-25	26
Barutcigil Kubilay	P-4	60
Baumann Petra	P-5	61
Baysal Nurten	P-91	104
	P-92	105
Beldiman Maria-Antonela	P-145	130
Benke Beáta	P-135	125
Bilir Halenur	P-13	64
Bosinceanu Dan	P-173	144
Bosinceanu D. Gabriela	P-172	144
Boztuna Aydan	P-169	142
Bukovac Lea	P-68	93
Burdinyashka Monika	P-86	102
Buyukerkmen Begum	P-17	67
Buyukhatipoglu Isil	O-9	32
Cakan Umut	O-58	57
Çakirbay Taniş Merve	O-12	34
Çalışkan Ahmet	P-121	119
Celakil Tamer	P-166	141
Celik Ersan	P-65	92
Celikkol Ongun	P-148	132
	P-158	137
Cengiz Esra	P-38	78
Ceyda Akin	P-71	95
Cilli Mesutcan	P-115	116
Cinel Sezgi	P-136	126
Cokuk Neslihan	P-1	59
Colgecen Ozlem	P-132	124
Comlekoglu Erhan	O-15	35
Culhaoglu Ahmet Kursat	P-8	62
Curt-Nazar Varol	P-119	118
Čimić Samir	P-75	96
de Baat Cees	K-2	14
Deda Ganimet	P-95	106
Dede Dogu Ömür	P-64	91
Degirmenci Kubra	P-120	118
Deniz Sule Tugba	P-100	109
Dimopoulou Marina	P-87	102
Dinçel Mehmet	O-28	42
Disha Metush	P-160	138
Dogar Gokce	P-128	122
Dřízhal Ivo	K-20	24
Dula Linda	O-55	56
Dumitru Sirbu	P-35	76
Dumrul Fatmanur	P-148	132
Eksi Hilal	P-167	142
Elsheikh Nasr	P-97	107
Elter Bahar	P-58	88
Emre Mumcu	P-114	116
Erginsoy Tugce	P-146	131
Ergun Kunt Goknil	P-16	66
Erol B. Filiz	P-92	105
Eskitascioglu Murat	P-70	94
Etoz Onur	P-53	85
Fariba Saleh Saber	P-44	81
Foltán René	K-4	15
Fonzar Alberto	K-16	22
Forna Norina	K-15	21
Galanopoulos Panagiotis	P-34	76
Gehrke Peter	K-23	25
Groot Rob	O-35	46
Güleç Ceyda	P-154	135
Güngör Hamiyet	O-30	43
Günsoy Selim	P-66	92
Habib Syed Rashid	O-53	54
Hassan Bassam	O-5	30
Hašková Eva	P-90	104
Hatta Minori	P-10	63
Hayashi Shoji	P-105	111
Hazır Yadel	P-157	137
Himmlová Lucie	O-1	28
Hubálková Hana	O-14	35
Chatzistavrianou Desp.	O-19	38
İdris Kavut	P-124	120