

31st International Webinar on DENTISTRY

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Micro- computed tomography for fit evaluation of zirconia 3-unit FDPs

Elie E DAOU

Lebanese University, Lebanon

Null hypothesis: No difference between materials tested

Material and Methods:

Ceramill Sintron (AmannGirrbach AG)	Ceramill Zi (AmannGirrbach AG)
n=12 Lot: 1404009 (cs)	n=12 Lot: 140900 (CZ)

- Each specimen: Labeled and digitized using scanner (Ceramill map 400, AG)
- Micro – CT scanning / N=24 abutments

Statistical Analysis:

- Levene's test and t-test: Gap values between materials and abutments
- Multiple pairwise comparisons: ANOVA and Bonferroni correction
- $\alpha=.05$ for all tests.

N=24	Materials	Mean \pm SD	p
Total Gap	CS	889 \pm 144	.085
	CZ	816 \pm 146	.085

Total Gap Measurements (P < .05)

Discussion and Conclusions:

- Small Artifacts precluded automated measuring or 3D evaluation
- Overall mean gap values, no significant difference CS /CZ (P=.085)
- Pairwise comparison /points - significant difference within each material (P<.05)
- Marginal gap: Clinically acceptable

Biography

Elie E DAOU was graduated as dental surgeon in 1994, from Saint Joseph University in Beirut. Then he got a master's in sciences in 1999, a DES in prosthodontics in 2002 from the same university, and a UD in "Fundamentals in Medical Research" from F-MRI –LU in 2015. He got a DSc O don't in 2018 from the Lebanese University. Besides his private practice, he was in department of removable prosthodontics until 2005. He is a Professor (Ass.) in the department of prosthodontics, at the Lebanese University (LU) in Beirut. Dr. Daou lectured in international conferences (IADR, CED-IADR), and published several papers in peer-reviewed journals.

dreliaou@gmail.com