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## Comparison between Zirconia crowns versus strip crowns in primary anterior teeth: randomized clinical trail

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**Aim:** The aim of this study is to compare two aesthetic full coronal restorations on primary maxillary central and lateral incisors over a period of 3, 6 and 12 months. The restorations type included were resin composite strip crowns and pre-fabricated primary zirconia crowns.

**Materials & Methods:** Children attending the King Abdulaziz University, Faculty of Dentistry (KAUFD) clinics who needed restorations were screened for inclusion criteria till 120 teeth were recruited, 60 teeth for each group. The teeth assigned into either zirconia crowns (group A) or strip crowns (group D). Randomization was done using SPSS software version 20.0 (Armonk, NY; IBM Corp.). A simple descriptive statistic was used for analysis by Wilcoxon Signed-Rank Test and qui square test. Level of significance was set at ( $\alpha=0.05$ ) and level of confidence at (95%).

**Results:** While looking at the improvements in gingival health relative to interventions, both zirconia and strip crowns showed significant changes through all time points. The composite strip crowns exhibited drawback in gingival health, plaque accumulation, restoration failure, recurrent caries while it was better than zirconia regarding attrition to the opposing dentition although it was minimal.

**Conclusion:** Although both zirconia crowns and strip crowns presented an excellent choice for anterior teeth restorations, however we can conclude that zirconia crowns performed better regarding esthetic appearance as well as better gingival health and durability.

### Biography

Bashaer Abdulhadi is a pedodontist graduated from King Abdulaziz University since 2006, achieved MSc and PhD in pediatric dentistry from the same University. Presently working in King Fahd Armed Forces Hospital, first as General dentist then as pedodontist specialist until now. Got the Third Prize for Oral Presentation in Scientific Research Competition for the Eighth Scientific Forum of King Abdulaziz University Students 2017 as well as Certificate of Excellence from King Abdulaziz University (Deanship of Student Affairs) for achieving a GPA "Excellent" in both successive semesters of the academic year 2014-2015 and 2015-2016 PhD program. Interested in dental research and community work.

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