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## When looking to the future of prosthodontics: CAD/CAM ceramic

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All-ceramic crowns have been extensively used in prosthodontics in recent years for their superior gingival response and esthetic quality, while achieving similar marginal accuracies when compared to traditional metal-based restorations. CAD/CAM, which is computer aided design/computer aided manufacturing technology, offers a superior advantage of time-saving procedures and precise dimensions, which give more control over the products of this type of technique. The use of toughened ceramics such as yttrium-stabilized zirconium offers a more fracture resistant application of all-ceramic crowns to the posterior region without sacrificing esthetic qualities. The use of press-on ceramic over the zirconium core combines the high bond strength and superior interface quality achieved using press-on ceramics with the superior esthetics obtained by using layering ceramics. A laboratory research to compare the fracture strength between monolithic lithium di-silicate pressed crowns and the bi-layered zirconium based pressed crowns with two different coping design will be discussed and presented.

### Biography

Abdulaziz M Altamimi is a Consultant Prosthodontist and a Faculty Member in Prosthodontics in Prince Abdul Rahman Advance Dental Institute in Riyadh, Saudi Arabia. He is an international fellow of the American College of Prosthodontic and a Diplomat of the American Board of Prosthodontics. He got his prosthodontics specialty training from Tufts University School of Dental Medicine, Boston MA, USA; where he also achieved a fellowship in Advanced Education in Esthetic Dentistry. He has Master of Science Degree from Tufts University School of Dental Medicine with a research focused in dental ceramic. He received the second prize award from the European Academy of Esthetic Dentistry for his research in dental ceramic in 2012. He also received the outstanding performance award from the Saudi Culture Mission to the USA in 2013. He is a frequent presenter in the International Association of Dental Research IADR. He has also been presenting both national and international meetings.

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