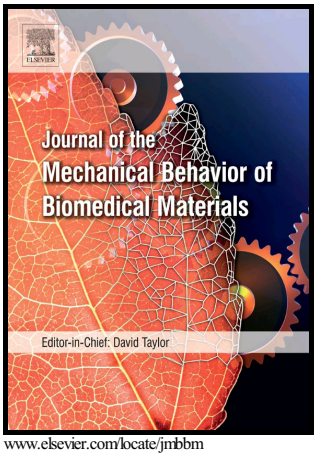

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Short title: *Adhesion of zirconia to dentin with different functional phosphate monomers.*

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ABSTRACT

Purpose*:* The objective of this study was to evaluate the effect of primer-cement systems with different functional phosphate monomers on the adhesion of zirconia to dentin with and without aging protocols.

Materials and Methods: Bovine teeth (N=180) were embedded in acrylic resin after sectioning their roots with with their coronal parts exposed. The buccal surface of each tooth was polished with silicon carbide papers (#200, 400, 600) until dentin exposure. Sintered zirconia cylinders (N=180) (Ø: 3.4 mm; height: 4 mm) (Vita In-Ceram 2000) were prepared and distributed into 18 groups (n=10 per group) considering the following factors: “Cementation System” (Panavia F - PAN; RelyX Ultimate - ULT, Multilink N - MULT) and “aging” (water storage in distilled water at 37°C for 24 h (control, C); 30 days (30D); 6 months (6M) and