

September 5, 2001

Re: Research Award Report to AAOF

Award Type: Clinician Award

Title: Bond strength of a resin-modified glass ionomer adhesive: An in vivo study

Principal Investigator: Dr. Jeffrey Gilmore (West Virginia University)

Date of funding: July 1, 2001

Summary:

This is a recently funded project. We plan to gather data on 300 patients who will be receiving comprehensive orthodontic treatment in Dr. Gilmore's private office. The maxillary and mandibular teeth will be bonded with Fuji Ortho LC resin-modified glass ionomer adhesive after conditioning for 20 seconds with 10% polyacrylic acid. Bracket failures will be noted and the bracket survival distribution will be calculated. In addition, the bracket failure interface will be examined under light microscopy in conjunction with West Virginia University to determine the failure occurred at the enamel adhesive or the bracket adhesive interface.

Respectfully submitted,
Jeffrey Gilmore, D.D.S., M.S.