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Effectiveness of a resin-modified glass ionomer liner in reducing hypersensitivity in posterior restorations: a study from the Practitioners Engaged in Applied Research and Learning Network

The August 2013 issue of *The Journal of the American Dental Association* featured an article entitled "Effectiveness of a resin-modified glass ionomer liner in reducing hypersensitivity in posterior restorations: a study from the Practitioners Engaged in Applied Research and Learning Network".

The purpose of this study conducted by members of the Practitioners Engaged in Applied Research and Learning (PEARL) Network was to determine whether using a resin-modified glass ionomer liner reduces postoperative hypersensitivity in dentin-bonded Class I and Class II resin-based composite restorations, as well as to identify other factors associated with increased postoperative hypersensitivity .

They did this by enrolling 341 participants who had hypersensitive posterior lesions. Participants were randomly assigned to receive a resin-based composite restoration with or without a resin-modified glass ionomer liner before practitioners applied a one-step, self-etching bonding agent. Practitioners conducted sensitivity evaluations at baseline, at one and four weeks after treatment, and at all visits according to patient-reported outcomes.

Practitioners collected complete data regarding 347 restorations at

baseline, with 341 recalled at four weeks. Treatment groups were balanced across baseline characteristics and measures. Resin-based composite restorations with or without a resin-modified glass ionomer liner had the same one-week and four-week postoperative hypersensitivity outcomes, as measured clinically (by means of cold or air stimulation) and according to patient-reported outcomes.

The results indicated that use of a resin-modified glass ionomer liner did not reduce clinically measured or patient-reported postoperative hypersensitivity in moderate-depth Class I and Class II restorations. Cold and air clinical stimulation findings were similar between groups.

Click [here](#) to view the PubMed abstract.

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