

Preventing Dental Caries: Community-Based Initiatives to Promote the Use of Dental Sealants

Summary Evidence Table

Study details	Characteristics	Participants	Interventions	Outcomes
<p>Author: Clarkson et al., 2008</p> <p>Greatest: Cluster RCT</p> <p>Quality assessment: Fair</p> <p>Country of study: UK</p> <p>Geographic location: Scotland</p>	<p>Unit of allocation: Cluster</p> <p>Year commenced: Not reported</p> <p>Year completed: Not reported</p> <p>Recruitment: A random sample of 25 patients per dentist during the six-month intervention period were identified through NHS records</p> <p>Data collection: Outcome data were collected from practice records 12 months post-intervention</p> <p>Follow-up: 12 months</p> <p>Funded by: The Chief Scientist Office, Scottish Executive, and the Scottish Higher Education Funding Council</p>	<p>Inclusion criteria:</p> <p><u>Dentist eligibility:</u></p> <ol style="list-style-type: none"> Working in the 4 (out of 7) more deprived categories in the Scottish postcode-based system defining deprivation Treating at least four children aged 12 to 14 years per month <p><u>Patient eligibility:</u></p> <ol style="list-style-type: none"> Children had to have attended a study dentist during the six-month period Aged 12 to 14 years <p>Exclusion criteria: Not reported</p> <p>Age: 12-14 years</p> <p>Gender: Around 50% in all groups</p> <p>Number of participants recruited: Dentists = 149 Children = 2833</p>	<p>4 Groups:</p> <p>Group 1: Fee only n=698 children</p> <p>Group 2: Education only n=691 children</p> <p>Group 3: Education & Fee n= 714 children</p> <p>Group 4: Control n=730 children</p>	<p>Outcome measure: Children with 1 or more sealant per dentist – mean% (SD)</p> <p>Data:</p> <p>Group 1: 35.1% (28.4) Group 2: 27.4% (30.8) Group 3: 30.8% (23.1) Group 4: 25.3% (25.5)</p>

Study details	Characteristics	Participants	Interventions	Outcomes
<p>Author: Grembowski et al., 2006</p> <p>Greatest: Cluster RCT</p> <p>Quality assessment: Fair</p> <p>Setting: US</p> <p>Geographic location: Washington State</p> <p>Study dates: 1999 to 2002</p>	<p>Unit of allocation: Cluster</p> <p>Year commenced: 1999</p> <p>Year completed: 2002</p> <p>Recruitment: Eligible participants were invited to participate in the study at regular office visits between August 1999 and July 2000.</p> <p>Data collection: WDS service records were used to calculate dentist service rates, or the average number of times that a dental service was provided to enrolled children in the office of each dentist-owner. A parent follow-up survey provided data on group differences in children’s dental utilisation in the past 12 months</p> <p>Follow-up: 1 year and 2 years</p> <p>Funded by: Majority of funds provided by Delta Dental/Washington Dental Service</p>	<p>Inclusion criteria:</p> <p><u>Dentist eligibility:</u></p> <ol style="list-style-type: none"> 1. Ownership of Seattle-area dental offices 2. Network providers in WDS’s capitation dental plan 3. Having 30 or more children patients aged 6-14 covered by the plan <p><u>Patient eligibility:</u></p> <ol style="list-style-type: none"> 1. Coverage by WDS capitation plan 2. Aged 6-14 years 3. Parental consent 4. At risk for caries (≥ 1 restoration or carious lesion) <p>Exclusion criteria: Not reported</p> <p>Mean age: 10 years SD 2.2 (Intervention); 9.9 years SD 2.3 (Control)</p> <p>Gender: 53% male (Intervention); 55% male (Control)</p> <p>Number of participants recruited: Dental offices = 19</p>	<p>2 Groups:</p> <p>Group 1: Education & Fee: n=9 dental offices; n=391 children</p> <p>Group 2: Control: n=10 dental offices; n=298 children</p>	<p>Outcome measure: Percentage of children receiving sealants (1 year follow-up)</p> <p>Mean number of sealants services per child (2 year follow-up)</p> <p>Data: <u>% of children receiving sealants:</u> Group 1: 33% Group 2: 27% Percentage point difference = 6</p> <p><u>Mean number of sealants:</u> Group 1: 1.4 Group 2: 0.8 Adjusted difference = 0.1 (95% CI -2.9, 0.41)</p>

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		Children = 689		

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<p>Author: Siegal et al., 1996</p> <p>Least: Uncontrolled before and after study</p> <p>Quality assessment: Fair</p> <p>Country of study: US</p> <p>Geographic location: Ohio</p>	<p>Year commenced: 1989</p> <p>Year completed: 1992</p> <p>Recruitment: A 10% random sample of Ohio dentists was surveyed in May 1989. In March 1992, the survey was repeated on a newly drawn random sample using a similar questionnaire</p> <p>Data collection: Descriptive information about respondents was derived from Ohio State Dental Board records</p> <p>Funded by: Not reported</p>	<p>Inclusion criteria: Licensed dentists with Ohio addresses</p> <p>Exclusion criteria: 1. Dentists who were retired, deceased, residing out of state, did not treat children, or whose questionnaires were undeliverable or unusable 2. Specialists including paediatric dentists</p> <p>Mean age: 40.8 years</p> <p>Gender: Not reported</p> <p>Number of participants recruited: Dentists = 713 (pre+post)</p>	<p>1 Group:</p> <p>Group 1: Education+ Public/media campaign: Before (1989) n=335 After (1992) n=378</p>	<p>Outcome measure: Percentage sealant use by dentists before 1989 and after 1992</p> <p>Level of sealant use by dentist (>39% of children)</p> <p>Data: <u>Percent use</u> Before (1989) = 79.4% After (1992) = 91.8%</p> <p><u>Level of use</u> Before (1989) = 20.4% After (1992) = 15.3%</p>