

Prevention only Intervention							
Study	Country	Study Design	Children	Intervention	Comparator	Outcome	Results
Liu 2012	China	Cost Minimisation Analysis	6-7 years	Resin sealant	ART sealant	Cost of sealing one single molar	Resin Sealant US\$3.85, ART Sealant US\$3.29
Wennhal 2010	Sweden	Cost Analysis	2 years	3-year preventive programme	Conventional Dental Care	Cost per child in the 3-year prevention programme	310 Euro per included child in the 3-year programme
Boachie 2023	South Africa	Cost Effectiveness Analysis	5 years entered the programme and exit once they have reached age 15	Caries Prevention programmes: fissure sealants, fluoride applications, atraumatic restorative treatment (ART) and reduction in added sugar intake among children (through taxation and marketing restrictions)	No prevention programme	Net monetary benefit was used to determine which intervention was most cost-effective	Based on Net Monetary Benefit, ART, fissure sealant and sugar reduction appear to be the most cost-effective strategies for preventing caries.
[Author note: ^] Neidell 2016	US	Cost Effectiveness Analysis	3-8 years	Sealant group and Varnish group	No treatment	Average Cost Effectiveness Ratio	Varnish more cost-effective
Huang 2019	US	Cost Effectiveness Analysis	5-12 years	School-based Sealant Programme (SCPP)	CariedAway using glass ionomer	Cost per DALY (Disability Adjusted Life Years)	When treating only first molars SCPP is more cost-effective, when treating all posterior teeth CariedAway is more cost-effective and cost-saving

Anopa 2022	UK	Cost Utility Analysis	3 years old	Fluoride Varnish (FV) + Treatment As Usual (TAU)	TAU	ICER (Incremental Cost Effectiveness Ratio)	Probability that FV was cost-effective at the UK £20,000 threshold was 11.3%
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Combined prevention and treatment intervention

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Anopa 2015	Scotland	Cost Analysis	5 years old	Nursery toothbrushing programme	No treatment	Cost of toothbrushing programme and cost of dental treatments	The estimated total cost of actual and anticipated dental treatments, which is the sum of costs of decayed, extracted and filled teeth, in the baseline year 2001/02 was £8,766,297, while in 2009/10 it was £4,035,200

Nguyen 2021	Australia	Cost Analysis	Mean age 3.8 years	Mobile dental service called Teeth on Wheels		Healthcare Cost Categories were: 1) Cost for preventive services. 2) Cost for treatment services - deciduous teeth. 3) Cost for treatment services - permanent teeth.	Overall mean reduction in all restorations and extractions performed, but only statistical significance was noted for reductions of restored deciduous teeth
Effenberger 2021	South Africa	Cost Effectiveness Analysis	4-8 years	Fluoride Varnish (FV)	No FV	Cost of FV application and re-treatment, cavitated caries lesions or existing early ones progressing to cavitated lesions, requiring restorations or extractions	FV application was not cost-effective in this trial and setting, mainly as there were no cost- savings in restorative or further care avoided by FV, while regular application of FV generated significant costs

Marino 2018	Thailand	Cost Effectiveness Analysis	6 years	Milk-fluoridation programme	Comparison community (i.e., received school milk without added fluoride)	Comparing the costs of the operation of the program and dental treatment in the test community with those of the comparison community, after 6 years of programme.	The programme resulted in a net societal saving (THB 71.26 per child for a 6-year program, or THB 11.88 per child per year) and 40,500 DMFS avoided in a community with a childhood population of 75,000
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Screening Interventions

Study	Country	Study Design	Children	Intervention	Comparator	Outcome	Results
Schwendicke 2023	Germany	Cost Effectiveness Analysis	12 years	NILT Near-infrared-light- transillumination, it is a portable camera system that does not generate ionizing radiation	Visual-tactile detection, without NILT	Health outcome was tooth retention in years. Costs driver was tooth replacements later in life.	NILT was minimally more effective and minimally less costly than standard of care