Reducing Dental Sealant Disparities in School-aged Children Through Better Targeting of Informational Campaigns

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Over the full study sample, sealant knowledge was 62.5%, and sealant prevalence was 31%. Caregivers’ race/ethnicity, age, marital status, education, income, and sex were significant predictors of sealant knowledge. Both sealant knowledge and prevalence were positively associated with income level. Among higher-income families, 71% of caregivers exhibited sealant knowledge compared with 47% of their low-income counterparts; 42% of higher-income children had sealants compared with 22% of their low-income counterparts. Among higher-income families, sealant prevalence among children was positively associated with caregiver knowledge ($r = 0.973$). Non-Hispanic whites had the highest caregiver knowledge (78%) and highest sealant prevalence (49%) in this group; non-Hispanic blacks had the lowest caregiver knowledge (41%) and sealant prevalence (22%). Among low-income families, there was no association between caregiver knowledge and sealant prevalence.

Current sealant prevalence is well below the Healthy People 2010 objective of 50%. We found disparities in both knowledge and prevalence of sealants by race/ethnicity and income. The positive association between sealant knowledge and prevalence for higher-income families is consistent with the economic principle that demand for sealants increases with knowledge of their benefit. The lack of an association between sealant prevalence and knowledge among low-income families may reflect higher levels of public provision of sealants to this group. This suggests that informational campaigns could increase demand for sealants in both income groups. Additionally, efficient targeting — targeting groups with the lowest demonstrated knowledge — should also help eliminate...
disparities. This information is useful to oral health coalitions funded by the Centers for Disease Control and Prevention in many states to promote oral health and eliminate oral health disparities.

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