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Title	International perspectives on health inequalities in childhood dental caries
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0425 International Perspectives on Health Inequalities in Childhood Dental Caries

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Objectives: Dental scientists from 17 countries have collaborated in formative research to examine how development of dental caries in young children living in diverse settings relates to familial and cultural perceptions and beliefs, oral health-related behaviour and oral microflora. Method: A standardised measure (questionnaire) of parental beliefs and attitudes was developed using psychological models. Dentists in 29 sites in 17 countries each aimed to recruit 100 children aged 3 or 4 years, half to come from deprived backgrounds, and within deprived and non-deprived groups, half to be "caries-free" and half to have at least 3 decayed teeth. Parents were asked to complete the questionnaire and around 10% of children had plaque sampled. Results: 2686 children, mean age 4.02, 50% caries-free were recruited from several ethnic groups. The mean dmft of those with caries ranged from 3.5 to 7.6. In multivariate analyses, reported toothbrushing behaviours that double the odds of being caries-free were a combination of brushing before age 1, brushing twice a day and adult involvement in brushing. Composite sugar consumption behaviours increased the odds of being caries-free (by 1.7 times) were: not eating or drinking sugary drinks in bed, and not adding sugar to child's drinks. Analyses combining beliefs, attitudes and behaviours found that parents' perceived ability to implement regular toothbrushing into their child's daily routine was the most important predictor of whether children had caries and this factor persisted in children from disadvantaged communities. 90% of children with lactobacillus had caries. Conclusions: Parental beliefs and attitudes play a key role in moderating oral health related behaviour in young children and in determining whether they develop caries. Further research is indicated to determine

whether supporting the development of parenting skills would reduce dental caries in children from disadvantaged communities independent of ethnic origin. Supported by NIH-NIDCR grant number DE13703-02.

Seq #55 - Childhood Caries

11:00 AM-12:15 PM, Thursday, 26 June 2003 Svenska Massan Exhibition Hall B

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