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Teething symptoms: cross sectional survey of five groups of child health professionals
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"There can be no excuse for ascribing fever, fits, diarrhoea, bronchiitis, or rashes to teething," wrote the BMJ in 1973. The intervening quarter century has seen the growth of evidence based medicine, yet it has also illustrated how great may be the distance between research evidence and professional practice and how slowly that gap may close.

Good evidence now exists from careful prospective studies that teething is associated with, at most, minor and relatively infrequent symptoms. How do the views of professionals now align with the evidence? This study aimed to determine current beliefs about teething and related practices of child health professionals in Victoria, Australia.

Methods and results
We surveyed representative samples of the five groups of professionals most closely concerned with the health of children in Victoria (population 4.6 million). A written questionnaire was mailed in July 1997 to 109 maternal and child health nurses, 100 pharmacists, 150 general practitioners, 100 dentists, and 100 paediatricians. All samples were selected randomly from state registers held by the relevant professional bodies. A parent survey on teething was conducted simultaneously, with many questions shared across the two surveys. SPSS version 6.1 was used for all analyses. The study was approved by the Royal Children’s Hospital ethics in human research committee.

The overall response rate was 85% (73 pharmacists, 114 (76%) general practitioners, 88 paediatricians, 91 dentists, and 98 nurses). Analysis of variance showed professional group, but not sex or years since graduation, to be a significant indicator of total number of symptoms ascribed to teething. The mean number of different symptoms ascribed to teething per group was 2.8 (paediatricians), 4.4 (dentists), 6.5 (general practitioners), 8.4 (pharmacists), and 9.8 (nurses). In every professional group most thought that at least some infants or young children suffer symptoms, though beliefs about the prevalence of teething symptoms varied strikingly by professional group (figure).

Thirty-two pharmacists and 19 dentists reported that teething may cause fever (>38°C), compared with seven nurses, 12 general practitioners, and two paediatricians. Only nine paediatricians, but 30-50% of each of the other groups, believed that teething predisposes to infections, most commonly colds and ear infections. In every group most of those who believed that teething causes symptoms ascribed irritability, dribbling or drooling, biting objects, sleep problems, inflamed gums, and red cheeks to teething. Very few from any group ascribed eczema, other rashes, colic, convulsions, or constipation to teething. Only nurses commonly ascribed nappy rash, feeding problems, pulling ears, loose stools, cold symptoms, and smelly urine to teething.

Professionals in all groups believed that parents experience as much (or more) distress as the infants themselves (mean perceived distress rating 2.9 ± 1.6 on a 3 point scale, p<0.001; independent samples t test).

Paracetamol and teething gels were widely recommended by all groups, and 41 pharmacists recommended sedating medication. Few from any group recommended antibiotics or antiprophylactic medications.

Comment
Australian child healthcare professionals report strong beliefs that teething causes a range of symptoms. These beliefs are strikingly similar to those reported by Australian parents and by paediatricians in different places and at different times. Our representative samples and high response rates give us confidence in our findings.

These beliefs may prevent professionals from effectively managing some of the common developmental issues of infancy and might lead to late diagnosis of important illness. Furthermore, professionals widely recommend medication for "teething." Will these beliefs alter, now that we know how innocuous teething is?

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