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Published Abstract

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Parents understanding of vitamin D requirements, and the use of fortified foods. By M.S. Christian, R.E. Day and P. Sahota, Applied Obesity Research Centre, Nutrition and Childhood Obesity Research, School of Clinical and Applied Sciences, Leeds Beckett University, Calverley Street, Leeds, LS1 3HE

One in four toddlers are not achieving the recommended vitamin D intake crucial for their healthy development(1, 2). This study explored parents’ acceptability of factors affecting purchasing of foods and drinks fortified with Vitamin D in children aged 0-2 years old. A total of 194 parents completed an online parent questionnaire. Focus groups and interviews were used to explore in depth perceptions of vitamin D fortification. Thirteen participants participated in the 5 focus groups, 5 completed interviews.

The majority of participants were female (mothers) and of White-British ethnic background, aged between 25-40 years, with 89% of the sample with a level 3 qualification (e.g. 2 or more A levels, NVQ level 3). Basic descriptive statistics were calculated from the questionnaire data and a thematic analysis methodology was applied to the qualitative data.

The findings indicated low purchasing of vitamin D fortified foods/drinks by parents (21% of the sample). The foods/drinks most purchased were cereal, yogurts and alternative milks. Willingness to purchase certain products fortified with vitamin D to increase their child’s vitamin D was however high. After excluding formula milk, parents would be willing to buy yogurt, yogurt drinks, cereals, milk-based drinks, fruit juice and margarine. The table outlines parents’ views on the facilitators and barriers to purchasing vitamin D fortified foods and drinks.

<table>
<thead>
<tr>
<th>Barriers</th>
<th>Facilitators</th>
<th>Illustrative quotes</th>
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<tbody>
<tr>
<td>- Little awareness of which products are available</td>
<td>- Information about the link between vitamin D and health</td>
<td>“if they were advertised in a way where you could clearly see that they had vitamin D in. I think the problem with fortified foods in general is it is hard to trail through the back of the product and it can be really quite small on the packaging.” (interview 3)</td>
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<tr>
<td>- Insufficient labelling about vitamin D on products</td>
<td>- More information about which foods/drinks contain vitamin D suitable products for babies/toddlers</td>
<td>“…if the health visitor gave you a bit more information but it is always good if it is on products as well, so you can see it. Because if you are buying one thing and comparing the two and you see that that’s got some information on it, that might influence you to buy that one instead” (interview 2)</td>
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<tr>
<td>- Vitamin D dosage unclear</td>
<td>- Better availability in local shops &amp; lower costs</td>
<td>“I need to understand why fortified products are better than other products on the market” (focus group 3)</td>
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<tr>
<td>- Healthiness of product, e.g. sugar content</td>
<td>- Better labelling with vitamin D content on the packaging</td>
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<td>- High cost</td>
<td>- Make it clear what the benefits of vitamin D on the product</td>
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<tr>
<td>- Possibility risk of overdosing on vitamin D from supplement &amp; fortified foods</td>
<td>- More knowledge about fortified products &amp; knowledge about their importance e.g. from health visitor</td>
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More knowledge about the product and it can be really quite small on the packaging.

The foods/drinks most purchased were cereal, yogurts and alternative milks.

There is a potential for fortified foods to play a role in increasing the intake of vitamin D intake. Parents need quality education explaining the need to prevent vitamin D deficiency, though fortified products. Products also need to be suitable for babies and toddlers; better labelled, lower cost; with healthy options available with lower sugar and salt content, tasty, longer shelf life and better availability in local shops and supermarkets. Future research should determine if consumption of fortified foods/drinks alone rather than supplementation is sufficient to meet children’s daily intake of vitamin D(3).

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