

Endocrine disruptor and premature puberty, is there any association?

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Background: Endocrine disruptors endocrine function. ED have become a part of everyday life and are found among phytoestrogens, active ingredients in pharmaceuticals, and additives or contaminants in food, personal care products, cosmetics, plastics and textiles



Objective: To describe cases of children with signs of early puberty who are exposed to ED

Method: Observational study of patients affected of premature puberty. Detailed medical history about exposition to ED such as parabens or tea tree oil through creams, wipes or food was made.

Results: 12 girls who meet the criteria were described in table 1. After removal of the product containing ED a regression of the signs of puberty was observed.

Case	Age (years)	Clinical signs	Bone age	Product
			(years)	
1	0.6	Breast development (B3)	2	Horse meat juice
2	4.5	Pubic and perianal hair	6	Parabens (wipes)
				Tea tree oil
3	7	B2 and pigmented areola	7.9	Parabens (creams)
4	4	B2 and pigmented areola	4.5	Parabens (creams)
5	5	B2	5.5	Parabens (creams)
6	5	B2 and pigmented areola	6	Parabens (creams)
7	3	Pubic and perianal hair	4	Parabens (wipes)
8	1.8	B2	2.5	Parabens (wipes)
9	7	Pubic and perianal hair	9	Parabens (wipes)
				Tea tree oil
10	7	B2	10	Parabens (creams)
11	7	B2	9	Tea tree oil
12	6.5	B2 and pigmented areola	8.8	Tea tree oil

Conclusion.- It is very important to conduct a detailed history of environmental exposure. There is much conflicting epidemiological evidence regarding the involvement of ED in premature puberty. But more use of the precautionary principle could reduce exposure early and avoid children's health continued to be harmed.

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