

[Scand J Gastroenterol.](#) 1987 Dec;22(10):1181-4.

## **Prostanoids in jejunal biopsy specimens of celiac children with active disease and on challenge diet. Radioimmunologic evaluation.**

[Pietroletti R](#), [Castro M](#), [Mariani P](#), [Lucidi V](#), [D'Alessandro MD](#), [Carlei F](#), [Lomanto D](#), [Lezoche E](#), [Speranza V](#).

### **Source**

Institute of the IInd Surgical Clinic, La Sapienza University, Rome, Italy.

### **Abstract**

Prostanoid generation (prostaglandin E2 and thromboxane B2) in jejunal biopsy specimens from celiac patients was evaluated, comparing celiac patients with celiac patients on challenge diet and controls. Generation of prostaglandin E2 in jejunal specimens from 14 children with active celiac disease was significantly higher (341.8 +/- 82.3 ng/g; mean +/- SEM) than that from 7 celiac patients on gluten challenge diet (69.4 +/- 13.2 ng/g) or 8 normal children (92 +/- 23 ng/g) (p less than 0.05). In contrast, thromboxane B2 generation in jejunal specimens from all three groups did not show any statistically significant variation. Our results indicate that prostaglandin E2 generation is not merely related to the activity of clinical symptoms, since patients receiving gluten challenge had prostaglandin E2 levels that did not differ from those of controls.

PMID:

3481115

[PubMed - indexed for MEDLINE]

### **MeSH Terms, Substances**

#### **MeSH Terms**

- [Adolescent](#)
- [Celiac Disease/diagnosis](#)
- [Celiac Disease/diet therapy](#)
- [Celiac Disease/metabolism\\*](#)
- [Child](#)
- [Child, Preschool](#)
- [Dinoprostone](#)
- [Glutens/administration & dosage](#)
- [Humans](#)
- [Infant](#)
- [Intestinal Mucosa/metabolism](#)
- [Jejunum/metabolism\\*](#)
- [Prostaglandins E/metabolism\\*](#)
- [Radioimmunoassay](#)
- [Thromboxane B2/metabolism\\*](#)

#### **Substances**

- [Prostaglandins E](#)
- [Dinoprostone](#)
- [Thromboxane B2](#)
- [Glutens](#)