immunological parameters in patients with atopy allow to suggest the significant role of allergic and neuropeptide inflammation of the esophageal mucosa in children with allergic diseases.

**GP179** THE INCIDENCE OF INFlixIMAB INFUSIONS IN PAEDIATRIC IBD PATIENTS IN A TERTIARY PAEDIATRIC GASTROENTEROLOGY CENTRE

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**Background** Infliximab is a chimeric monoclonal antibody that targets Tumour Necrosis Factor-a in inflammatory bowel disease (IBD). Our Lady’s Children Hospital Crumlin is the sole tertiary paediatric gastroenterology service in Ireland caring for the IBD paediatric population. Our practice has been using the Infliximab originator, Remicade, for treatment. In our centre, for each patient commencing Infliximab treatment, we follow a specific protocol with regards to infusion rates, pre-medication and observation post infusion.

**Objectives** Our primary objective was to assess the incidence of adverse infusion reactions to Infliximab.

**Methods** We performed a retrospective analysis of patient charts who were on Infliximab infusions prior to the introduction of the biosimilar Infliximab infusion in October 2018 in our centre.

We reviewed a cohort of 100 patients who received Infliximab infusions during the time period 1st January 2016 to 30th September 2018. We assessed for any ADR ranging from mild requiring medical review to severe, requiring rescue adrenaline as documented in patient notes and medication charts.

In view of practice changes to infusion rate times and evidence on exclusion of pre-medications, we aimed to investigate our current infusion adverse drug reactions (ADR) to compare going forward with the biosimilar switch.

**Results** In our cohort, 42% patients were female and 58% male. The majority 74% (n =74) of patients were diagnosed with Crohn’s disease, whilst 25% (n =25) had a diagnosis of Ulcerative Colitis and 1% (n =1) with IBD-undetermined. The average age of diagnosis was 11.8 years (Range =3.4 - 16.4). 10% (n =10) of patients were commenced on Infliximab at diagnosis as inpatients with the remaining 90% attending as outpatients to the day ward.

The overall incidence of Infliximab infusion reactions was 4% (n = 4). Significant severe non-anaphylactic infusion reaction, occurred in one patient only (1%). Of note, the patient did not receive adrenaline and was treated with IV hydrocortisone and IV chlorphenamine as per the protocol. 2% (n=2) were classified as moderate reactions with rash and facial flushing, both given IV hydrocortisone. Mild reaction occurred in 1% (n=1) with an episode of central chest pain that warranted medical review and the infusion re-started with a slower rate.

**Conclusions** Infliximab Infusion reactions are rare and found in a small quantity among paediatric IBD patients. Going forward with the biosimilar switch in our centre we can compare this data to assess its safety profile.

**GP180** LEVEL OF VITAMINS D, PARATHORMONE, BONE TISSUE METABOLITES IN CHILDREN WITH COELIAC DISEASE AND BONE FRACTURES

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**Objectives** Study of vitamin D (VD) reserves and the level of markers of bone remodeling in children and adolescents with celiac disease (CD) depending on the presence or absence of fractures in history.

**Methods** 149 children with CD aged 1–17 y (8.8±0.7y), among which 65(43.6%) boys, 84(56.4%) girls. The diagnosis was established in accordance with the ESPGHAN criteria (1990,2012). Patients were divided into 2 groups. The 1 group 20(13.4%) children who had a history of fractures, the 2 group - 129(86.6%) children who had no fractures in the anamnesis. All patients were tested for serum calcidiol, osteocalcin(CSC), parathyroid hormone(PTH), C-terminal telopeptides(C-TTR).

**Results** The overall incidence of fractures in children with CD 13.4%, while in boys they occur 2.4 times more often 20.0% versus 8.3% in girls(p <0.05). The average age of diagnosis of CD in patients without fractures 4.3±0.3y, in children with fractures 6.1±1.0y (p <0.05). During the first year of adherence to GFD 3(23.1%) out of 13 fractures occurred. The average age of the fractures that occurred before the diagnosis was 5.9±0.9y; on the background of GFD 8.8±0.9y. Fractures of the upper and lower extremities were diagnosed in children in 15(75.0%) and 5(25.0%) cases. In patients with fractures calcidiol 12.4±2.0ng/ml, 1.9 times lower than in patients in the control group 23.0±1.2ng/ml(p <0.01). VD deficiency in children with fractures was in 18 (90.0%) children, of which in 9 (45.0%) children it was severe (>10 ng/ml). Deficiency VD 1(5.0%) patient, optimal level only 1(5.0%) patient. In the comparison group, VD deficiency in 70(54.3%) children, of them severe 33(26.3%), VD deficiency 21 (16.3%) cases, and the optimal level - in 38 (29.4%) patients. The level of PTH in children with fractures was 47.0 ±  9.7 pg/ml, which is 1.6 times higher than in the comparison group - 30.2 ± 2.0 pg/ml (p <0.05). The level of CSC in children with fractures was lower than in the comparison group — 27.0 ± 4.4 ng/ml and 53.9 ± 2.6 ng/ml (p <0.001), while C-TTR values were higher - 13.21 ± 20.1 pg/ml and 96.8 ± 6.9 pg/ml, respectively (p <0.05).

**Conclusion** CD patients at any age are at high risk for osteopenia and osteoporosis. A study of calcidiol indicates a low level concentration in children and adolescents with CD, while children with fractures have even lower rates.

**GP181** COMPARING DIAGNOSTIC TESTS IN CHILDREN WITH COW’S MILK PROTEIN ALLERGY

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**Introduction** Food allergies are very common in the pediatric population; the most common among them is cow’s milk...