Rotavirus is the main cause of AGE accounting for about 35% of all causative agents. About 90% of all cases of Rotavirus AGE occur in children under 5 years of age and more than 50% of cases occur in infants. Vaccination against rotavirus is now the best preventive measure.

**CASE REPORT: A PATIENT WITH BONE FORMATION DEFECTS DURING PRENATAL LIFE DIAGNOSED AS 'SHWACHMAN-DIAMOND SYNDROME'**

doi:10.1136/archdischild-2012-302724.0703

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**Case Report:** Shwachman-Diamond syndrome (SDS) is an autosomal recessive disorder with clinical features that include pancreatic exocrine insufficiency, hematological dysfunction and skeletal abnormalities during development after birth and varies with age. The patient was born as the first child to healthy, term. Labour was induced at 20 wk gestation because of symmetrical fetal growth retardation. Congenital infections were excluded. In the fetal karyotype analysis, no chromosomal abnormalities were detected. Molecular genetic analysis for achondroplasia and hypochondroplasia was performed and gave negative results. After birth, laboratory studies were normal. At the age of six months the patient’s height, weight and head circumference remained below 3 percentile. During the sixth month of life, the child’s blood count were evaluated retrospectively and intermittent neutropenia was documented. When she presented with increased fat loss and failure to thrive, fecal elastase level was < 50ug/g, low serum trypsinogen level was found. These results were primarily the signs of severe pancreatic insufficiency. On the CT scanning of pancreas, scattered fatty infiltration was detected. The X-ray imaging of the thorax showed narrow thorax. Although on spinal X-ray metaphyseal changes on the costochondral junctions was not detected; ‘Metaphyseal dysostosis’ of the femoral head and distal femur was observed more remarkably than upper limbs. When SDS gene which is a causative gene for Shwachman-Diamond Syndrome was analyzed by DNA sequence analysis.

**Discussion:** In contrast to the previous observations, results suggest that the characteristic skeletal changes present in some patients in the intrauterine period of life. Our observation underlines the necessity to consider SDS as the other common reasons of prenatally diagnosed bone disorders like achondroplasia and hypochondroplasia.

**MALROTATION - NOT A LAUGHING MATTER**

doi:10.1136/archdischild-2012-302724.0704

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**Background** Early diagnosis and management of intestinal malrotation can potentially prevent the devastating complications associated with midgut volvulus. Atypical presentation of intestinal malrotation in older children frequently leads to a significant delay in diagnosis.

**Methods** A 6-year-old boy presented with a five year history of hiccups, then vomiting after laughing. Sadly, he had resorted to avoiding laughter. Barium studies demonstrated intestinal malrotation, therefore a Ladd’s procedure was performed and he made a good recovery. The case prompted a literature search for aetiology, diagnosis and management of malrotation in children outside of the neonatal period.

**Results** We present a review of this literature, including findings that diagnosis of intestinal malrotation in the older child is frequently delayed. One study demonstrated a mean delay to diagnosis of 1.7 years. Vague abdominal symptoms including chronic abdominal pain, intermittent non-bilious vomiting, diarrhoea and failure to thrive have been associated with malrotation, but hiccups and laughter have not previously been described. Recent review of diagnostic imaging recommended ultrasound as the investigation of choice, and may advocate its use in the work up of children presenting with non-specific abdominal symptoms. Although debated in the literature, a Ladd’s procedure is recommended for all children, even if asymptomatic.

**Conclusion** Children with intestinal malrotation present us with a diagnostic challenge, but a low threshold of suspicion in patients presenting with vague abdominal symptoms, including intractable hiccups or vomiting, may ensure these children receive the timely surgical intervention.

**GASTROINTESTINAL HEMORRHAGE IN A 21-MONTH-OLD GIRL IN THE COURSE OF LYMPHOODULAR HYPERPLASIA. CASE REPORT**

doi:10.1136/archdischild-2012-302724.0705

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Gastrointestinal hemorrhage is an emergency condition requiring immediate diagnostics. Lymphomnodular hyperplasia, as a cause of bleeding from the gastrointestinal tract in children, is a rarely observed pathology of unknown etiology. The case of a 21-month-old girl is presented with massive bleeding from the lower gastrointestinal tract in the course of lymphomnodular hyperplasia. Endoscopy of the upper and lower gastrointestinal tract was performed as an emergency procedure. Gastroscopic examination did not indicate any deviations from the normal. Colonoscopy showed no organic pathology of the mucosa in the terminal ileum, and the presence of blood in the small intestine was not observed. In the entire large intestine the presence of hemolyzed blood was noted and a massive lymphomnodular hyperplasia on the mucosa. Histopathologic tests of the specimens taken from the large intestine confirmed normal pit patterns, mucosal edema, presence of lymph follicles, and numerous apotic bodies in the lamina propria beneath the epithelium and in the surface epithelium.

**INTESTINAL EPITHELIAL DYSPLASIA - A CASE REPORT OF A Milder PHENOTYPE**

doi:10.1136/archdischild-2012-302724.0706

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The intractable diarrhea of infancy remains a difficult challenge for the pediatrician.

We report a rare case of a five-month-old female infant admitted in “Grigore Alexandrescu” Emergency Children’s Hospital, Bucharest for diarrheic stools and severe malnutrition with birth onset. She was exclusively breastfed with poor gain weight (560g in 5 months). During the 5 months of life the child was repeatedly admitted to other hospitals because of diarrhea and failure to thrive without a precise diagnosis. We mention that she had a sister who died at 5 months old because of severe diarrhea with birth onset. At admission the infant had severe malnutrition with watery diarrhea and facial dysmorphism. After extensive investigations we excluded infections and allergic causes, cystic fibrosis, immune and autoimmune enteropathy, motility disorders. We performed inferior and superior endoscopies with biopsies that excluded microvillus inclusion disease. Examination of the biopsy specimens (optic and electronic microscopy) revealed the diagnosis of intestinal epithelial
dysplasia (IED). The patient received parenteral and enteral nutrition with elemental formulas.

Previous reports have suggested that IED may be a congenital inherited autosomal recessive disease. We report a case of congenital enteropathy that represents a diagnostic and therapeutically challenging.

707 EOSINOPHILIC DIGESTIVE DISEASE AND ATOPIC BRONCHIAL ASTHMA; TWO DISEASES OR AN EXPRESSION OF ONE DISEASE IN TWO DIFFERENT SYSTEMS

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Eosinophilic digestive disease (EDD) includes a broad spectrum of clinical presentations due to eosinophilic inflammation involving anywhere from the esophagus to the rectum. The heterogeneity in the clinical presentations of EDD is determined by the site and depth of eosinophilic infiltration. The sites of inflammation determine the nomenclature for EDD. The most well-characterized of these, eosinophilic esophagitis (EE), eosinophilic gastroenteritis (EG), and eosinophilic colitis or enterocolitis. While the depth of eosinophilic infiltration through the three main layers (mucosa, musculara and serosa) determines the prominent clinical manifestation. The recent advances in gastrointestinal endoscopy and the increasing awareness and diagnosis of EDD, in my viewpoint, can be of help to add to our understanding of the heterogeneous clinical syndrome under the broad title bronchial asthma.

Here I present a multidisciplinary comparative analysis to prove that EDD and the allergic bronchial asthma can be regarded as two clinical expressions of one disease in two systems that are functionally different but anatomically and embryologically related.

708 PREVALENCE OF FAT-SOLUBLE VITAMIN DEFICIENCIES IN CHILDREN WITH CYSTIC FIBROSIS

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Background Malabsorption of fat-soluble vitamins is likely in most patients with cystic fibrosis, particularly those who are pancreatic insufficient. Low vitamin levels are associated with poorer clinical status, and reduced lung function. Since the introduction of improved pancreatic enzymes, normal to high fat diets and routine vitamin supplementation, clinical evidence of fat-soluble vitamin deficiency is rarely seen.

Aim To determine the prevalence of fat-soluble vitamin deficiencies in children with cystic fibrosis in Calderdale and Huddersfield NHS Trust.

Method Retrospective analysis of vitamin levels performed in children with cystic fibrosis in Calderdale and Huddersfield Trust over a period of six years. Data was available for 19 out of 22 children with cystic fibrosis. Results of plasma vitamin A, D (Total 25 OH Vit D) and E levels for these children were collected on a pre-designed proforma.

Results Vitamin A, D and E levels were measured for a total of 75, 75 and 76 times respectively over a period of six years. Vitamin E levels were normal. Vitamin A levels were suboptimal on two occasions. However, Vitamin D levels were sub-optimal (<60 nmol/L) on forty occasions and amongst them levels were below 20 nmol/L on three occasions.

Conclusion Sub-optimal Vitamin D levels are still very common in children with cystic fibrosis despite routine vitamin supplementation.