EoC included bloody stool (3/3, 100%), diarrhea (2/3, 66%), abdominal colic (1/3, 33%), elevated IgE levels (2/3, 66%), peripheral eosinophilia >500 cells/μL(1/3, 33%).

**Conclusion** EGDs in children vary a lot among different age groups and clinical manifestations. Endoscopic exam with biopsy should be considered for unexplained gastrointestinal symptoms which may persist for weeks and lack of infectious etiology. Prompt diagnosis needs highly suspicion of practitioners and could avoid unnecessary operation and/or delayed treatment.

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**696** DELAY OF GASTRIC EMPTYING BY 13C-AcETATE BREATHE TEST RELATED TO ORTHOPAEDIC SCOLIOSIS IN NEUROLOGICALLY IMPAIRED PATIENTS WITH GASTROESOPHAGEAL REFLUX

doi:10.1136/archdischild-2012-302724.0696

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**Background and Aims** Delayed gastric emptying often occurs in patients with gastroesophageal reflux (GER) due to neurological impairment (NI). The aim of this study was to evaluate gastric emptying of liquids in patients with symptomatic GER using the 13C-acetate breath test (ABT), and to compare the gastric emptying rates with the severity of orthopaedic scoliosis between patients without and with NI.

**Methods** Sixteen patients were divided into 2 groups; group 1 without NI (6 patients) and group 2 with NI (10 patients). The liquid test meal consisted of RacolTM (5 ml/kg) mixed with 13C-acetate (50 mg for infants, 100 mg for children, and 150 mg for adolescents). Breath samples were collected for 13CO2 measurement before the intake of the meal, every 15 minutes during the first 2 hours after the meal and every 30 minutes thereafter to assess the ingestion of 13C-acetate and RacolTM. 13CO2 was measured using a gas chromatograph-isotope ratio mass spectrometer. The results were expressed as % of 13C expired per hour and cumulative 13C excretion over a 3-hour period. The severity of orthopaedic scoliosis was quantified by Cobb angle.

**Results** Statistical relations were

1. age and half excretion time in 13C-ABT (t1/2, ex), p=0.0649;
2. age and groups with or without NI, p=0.0018; age and Cobb angle of scoliosis on plain XIP, p=0.0078, and severe Cobb angle ≥ 30 degree and t1/2, p=0.0196.

**Conclusion** According to 13C-ABT, the delayed gastric emptying in patients with GER due to NI was related to severe orthopaedic scoliosis.

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**697** ENDOSCOPIC AND HISTOPATHOLOGICAL FINDINGS IN CHILDREN WITH UPPER GASTROINTESTINAL BLEEDING

doi:10.1136/archdischild-2012-302724.0697

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**Introduction** The etiology changes according to the age of child for upper gastrointestinal system(GI) bleeding. Esophagogastroduodenoscopy (EGD) is used to determine the source of upper GI bleeding in 90% of children when performed in the first 24 hours.

**Aim** In this study we aimed to determine the etiology of the upperGI bleeding in children. In order to determine the etiology we evaluated the EGD and biopsy findings.

**Methods** We evaluated the EGD and biopsy findings of children who complained of upperGI bleeding.

**Results** Eighteen children were in newborn period. We detected that 12 of infants hematemesis was due to swallowed maternal blood by Apt-Downey test. EGD was performed to 6 of newborns and 4 of them had no pathology but 2 had vascular malformations. Eight children were below 1 year of age. We detected Mallory Weiss tear in two infants and moderate severe esophagitis findings was seen on biopsy materials. Six of these cases have both macroscopic and microscopic findings of gastritis on antrum and H.pylori(+). There were 22 cases above 1 year old. Four of them had ulcer on bulbus. Six of them had esophageal varices. Mallory Weiss tear was detected on 3 of 12 cases and their biopsies were consistent with moderate-severe esophagitis. Macroscopically gastritis on the antral part was detected in 9 cases and biopsies were consistent with active gastritis and also all of them was H.pylori (+).

**Conclusion** In order to indicate the severity of bleeding it is very important to determine the bleeding site and etiology of bleeding. So that a detailed history and complete physical examination is very important. The importance of endoscopy in determination of etiology is undisputed.

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**698** ELECTROLYTIC AND ACIDOBASE DISORDERS AT CHILDREN WITH SEVERE DEHYDRATION (CAUSED BY DIARRHOEA)

doi:10.1136/archdischild-2012-302724.0698

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**Introduction** Electrolytic and acidobasic disorders that appear during the severe dehydration are frequent.

**Purpose** Presentation of electrolytic and acidobasic disorders among children with severe dehydration caused by acute diarrhea.

**Material** The examined children were infants and preschool children hospitalized at the Intensive Care Unit during 2007.

**Methods** Based on clinical assessment and laboratory analysis.

**Results** During 2007 there were 657 children of different age groups hospitalized at the Intensive Care Unit. The highest number 462 (70.3%) of them were infants and the lowest number of them 195 (29.7%) were preschool age children. The highest number 196 (29.8%) were with the severe dehydration caused by acute diarrhea, 187 (27.7%) of children dehydrated due to the decompensate bronchopneumonia, whereas the lower number of children of 12 (1.8%) were with acute intracranial disease and other diseases. According to the types of dehydration, there were 100 (51%) of patients with isonatremic dehydration, 54 (27.5%) were with hyponatremic dehydration and 42 (21.4%) were with hypernatremic dehydration. The values of sodium were normokalemia at 85 (43.5%), with hypokalemia 80 (40.8%) and with hyperkalemia 31 (15.8%) of the patients. The lowest values of pH were 6.80, base excess was -30 mmol/L, urea up to 18 mmol/L. The rehydration was done based on the clinical assessment of dehydration grade and correction of electrolyte disorder, types of dehydration, correction of metabolic acidosis and antidiarreal diet.

**Conclusion** Severe dehydration caused by acute diarrhea at our patients was accompanied with the severe electrolytic and acidobasic disorder and still represents the medical and social problem in Kosovo.

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**699** ROTAVIRUS GASTROENTERITIS AMONG CHILDREN UNDER FIVE YEARS OF AGE IN KOSOVO

doi:10.1136/archdischild-2012-302724.0699

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**Background** Infective diarrhea is a common disease in children under age of five in Kosovo. The most common cause are viruses and among them rotavirus is leading.

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Arch Dis Child 2012;97(Suppl 2):A1–A539
The aim of this study was to reveal epidemiological and clinical data of the disease and discuss implemented modes of treatment.

Methods The medical records of children aged 0–5 years hospitalized with acute gastroenteritis in our facility between 1 January 2011 and 31 December 2011 were retrieved.

Results Of 1011 patients hospitalized in the study period, 116 were rotavirus positive (11.47%). Of all patients, 74.4% were boys and 82.75% up to one year old. The average age for patients was 16.38 months. Euthropic were 61.12% patients, with first grade hypotrophy were 21.5% patients and with second grade hypotrophy 7.7% patients. All patients presented with diarrhea, 97.41% had vomiting and 43.96% fever at the admission. 70.7% of patients had moderate dehydration and 29.3% severe dehydration. Only somewhat less than one third of the patients in study had vomiting and 43.96% fever at the admission. 70.7% of patients had moderate dehydration and 29.3% severe dehydration. Only somewhat less than one third of the patients in study had vomiting and 43.96% fever at the admission.

Conclusions Rotavirus is responsible for significant portion of the acute diarrhea in Kosovo.

Summary of Table 1

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entameba histolytica</td>
<td>42 (5%)</td>
</tr>
<tr>
<td>Rotavirus gastroenteritis</td>
<td>485 (35%)</td>
</tr>
<tr>
<td>Adenovirus</td>
<td>42 (5%)</td>
</tr>
<tr>
<td>Mortality: zero%</td>
<td></td>
</tr>
</tbody>
</table>

Abstract 700 Table 1

Conclusion Physicians should be aware of macro-AST as a cause of plasma AST activity elevations. Several laboratory techniques were proposed for diagnosing macro-AST. Some require highly specialized chromatography or electrophoresis. Other have more simple procedures based on immunoprecipitation of macroenzymes by polyethylene glycol. There was a simple method as we reported in our three patients.
699 Rotavirus Gastroenteritis Among Children Under Five Years of Age in Kosovo

V Ismaili-Jaha, M Shala, M Azemi, T Hoxha, M Avdiu and S Spahiu

*Arch Dis Child* 2012 97: A201-A202

doi: 10.1136/archdischild-2012-302724.0699

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