¹F Abbasi, ²P Vahdani, ³S Korooni, ²A Naderi. ¹Bushehr University of Medical Sciences, Bushehr; ²Infectious Diseases and Tropical Medicine Research Center, Shaheed Beheshti Medical University, Tehran; ³Shiraz University of Medical Sciences, Shiraz, Iran

Background and Aims Hydatidosis, caused by Echinococcus granulosus, is an endemic parasitic disease. The most frequent anatomic locations are liver and lung. Dogs and other canines are the primary definitive hosts for this parasite. Hydatid cyst may develop after accidental ingestion of tapeworm eggs, excreted with the feces of these animals. Diagnosis is usually based on radiological and sero-logical findings.

Patient We present a 6 Year-Old-Boy with abdominal pain since months ago. He had history of travelling to village and exposure to cattle and dog. Physical examination of head and neck, chest, extremities, and neurologic exam were normal. In abdominal Physical examination he had mild right upper quadrant tenderness without rebound tenderness. Liver was palpable 3 Cm below costal margin. Abdomoinal sonography and CT scan showed multiple huge cysts in liver that occupied almost all the liver space. Serum hydatid cyst antibody was positive. With diagnosis of hydatosis surgery was done and albendazole started for him. The patient improved after a while and he was discharged with good general condition.

Conclusion Hydatid cyst should be considered in every patient with liver cystic lesion in endemic area.

958 FATAL HUMAN BOCAVIRUS INFECTION IN A BOY WITH IPEX-LIKE SYNDROME AND VACCINE-ACQUIRED ROTAVIRUS ENTERITIS AWAITING STEM CELL TRANSPLANTATION

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¹D Klinkenberg, ¹R Kobbe, ²R Schneppenheim, ²I Müller, ¹M Blohm, ³M Malecki, ³V Schildgen, ³O Schildgen. ¹Clinic of Paediatrics; ²Clinic for Paediatric Haematology and Oncology, University Medical Center Hamburg-Eppendorf, Hamburg; ³Institute of Pathology, Kliniken der Stadt Köln, Köln, Germany

We report about a 21-month-old boy presenting with chronic diarrhea and obstructive lung disease since infancy. His older brother, the first male child of non-consanguine Egyptean parents, had died at the age of 20 months suffering from BCGitis and severe CMV infection, suggesting a severe primary immundeficiency syndrome.

We found immunological dysregulation, endocrine dysfunction and enteropathy compatible with IPEX syndrome, therefore the child was listed for stem cell transplantation (SCT). *FOXP3* gene showed no IPEX associated mutations, but sequencing *IL2RG* we found an mutation in Exon 2 associated with x-linked IPEX-like SCID (c.252C>A, p.N84K).

The pulmonary condition of the boy deteriorated and he was admitted on the ICU, where he was mechanically ventilated ever since. After common respiratory infections were excluded, chronic human bocavirus (hBoV) was identified by multiplex-PCR as the primary causative pulmonary agent causing his respiratory failure. HBoV was found in decreasing quantity in respiratory material, blood and stool specimen.

Interestingly, chonic rotavirus shedding was notified in repetitive stool specimen. As the boy had been vaccinated against rotavirus, vaccine-aquired chronic infection was suspected and confirmed by typing of a vaccine virus specific gene variant.

The boy died before SCT could be preformed.

Since its dicovery, there is an ongoing discussion if hBoV can cause serious infections or represents only a harmless "bystander". This case report shows that hBoV can result in lethal respiratory infections in immunocompromised children.

959 MYCOPLASMA PNEUMONIAE ASSOCIATED WITH STEVENS JOHNSON SYNDROME IN TWO CHILDREN

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L Sfaihi, K Baklouti, I Maaloul, A Hakim, H Aloulou, T Kamoun, M Hachicha. CHU Hedi Chaker, Sfax, Tunisia

Background Mycoplasma pneumonia (MP) infections are often asymptomatic but can involve multiple organ systems. Secondary skin reactions are common, although few patients infected develop Stevens Johnson syndrome (SJS).

Results We describe 2 cases of Mycoplasma pneumoniae chest infection associated with Stevens Johnson syndrome. The two patients had prodromal symptoms of an upper respiratory tract infection before the onset of the eruption. The patients had extensive epidermal bullous vesicles, oropharyngeal and genital ulceration, injected conjunctivae and sclera and swollen lips with flaccid bullae. The mycoplasma IgG and IgM titers returned positive, and blood cultures and other titers were negative. They were successfully treated with macrolides and glucocorticoids.

Conclusion Although the clinical course may be severe and prolonged, the prognosis is uniformly good with complete recovery.

960 SECONDARY PSEUDOHYPOALDOSTERONISM DUE TO PYELONEPHRITIS: TWO CASES REPORT

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¹I Llana, ²MD Sanchez-Redondo, ¹M Benedit, ²J Cobas, ¹MT Garcia de Alvaro. ¹*Hospital HM Torrelodones, Madrid;* ²*Hospital Virgen de la Salud, Toledo, Spain*

Secondary pseudohypoaldosteronism occurs due to transient resistance in renal tubules causing renal sodium loss, hyponatremia and hyperkaliemia. This may resemble congenital adrenal hyperplasia. This is to be considered specially when a urinary tract infection is present as treatment and prognosis varies.

We report two infants who developed pseudohypoaldosteronism secondary to acute tract urinary infection and urologic malformations.

Patient 1 27 days old infant, weight: 4056 gr. He suffers severe dehydration, hyponatremia 119 mmol/L, K 7 mmol/L and metabolic acydosis, normal serum creatinine and normal 17 OH progest. Pathologycal urine analysis and hight leves of serum rennin and aldosterone. Urine culture: E.Coli. We can also apreciate left Ultrasonography hidronefrosis IV/V and primary megaureter. He was treated with Ampiciline + gentamicine and ions stabilisation within the following 36 hours after hospital admission.

Patient 2 14 days old infant, 2510 gr. Admitted at emergencies with a severe deshydration. Hyponatremia and hyperpotasemia that needed urgent treatment and severe metabolic acydosis. Electrolitic disorders were amended, then a urine culture was done with positive results in E. Coli test. He was treated with ampiciline + gentamicine. The renal scan evinced a bilateral ureteral hydrone-phrosis. The infant showed a recovery thanks to antibiotics treatment.

Conclusions An endocrinological evaluation is necessary to a diagnosis but we musn't forget the urinary cultures.

Most probable cause is the inmature renal responsiveness to aldosterone in three first months of life when exist urinary tract anomalies and/or urinary tract infection.

This secondary pseudohypoaldosteronism is reversible with early treatment. $% \left({{{\left[{{{L_{\rm{s}}}} \right]}_{\rm{s}}}_{\rm{s}}} \right)$

961 THE DIAGNOSTIC VALUE OF NEUROIMAGINIG IN Recognizing and therapy monitoring of Encephalitis and meningitis in children

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¹J Surmik, ²E Emich-Widera, ¹J Wróblewska, ¹I Maruniak-Chudek, ³E Kluczewska. ¹Department of Neonatal Intensive and Special Care; ²Department of Neuropediatrics, Medical University of Silesia, Katowice; ³Department of Radiology and Radiodiagnostics, Medical University of Silesia, Zabrze, Poland

Background and Aims Neuroinfection is an entity with possible serious subsequent complications. Early and precise diagnosis can help in purposeful treatment and accurate prognosis. The aim of the study was the analysis of principles and value of neuroimaging in the diagnostic process in pediatric neuroinfection.

Methods The retrospective analysis comprised 74 patients diagnosed with encephalitis and/or meningitis. The cohort was divided into two groups: A (meningitis; n=45) and B (encephalitis and meningoencephalitis, n=29). Data obtained from medical records (medical history, signs and symptoms, results of laboratory tests and radiological imaging) were investigated. Computer tomography (CT) or magnetic resonance (MR) were performed in the study group.

Results In the group A first CT examination revealed abnormalities in 9.7% of patients, in the group B - in 28% of children. MR examination showed pathological brain area in 79.3% of patients in group B. High signal in SE/T2 was observed in 95.7% and in FLAIR in 86.9%. In 90% of analyzed group B the disturbances in DWI were noted.

Conclusions CT examination preformed in the initial stadium of meningitis and/or encephalitis has limited diagnostic value for recognizing of inflammation. The characteristic of the abnormalities revealed by MR enables to recognize inflammation changes in central nervous system and their localization can direct diagnostic process. The presence of brain tissue alterations in MR image has significant correlation with clinical symptoms like seizures, consciousness disturbances and neurological deficits. The most sensitive sequences in estimation of the inflammation activity process are DWI and FLAIR.

962 THIOPENTONE INFUSION IN ICU- THERE IS MORE TO THIS THAN MEETS THE EYE

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G Subramanian, Q Mok, J Brierley. PICU, Great Ormond Street Hospital, London, UK

Thiopentone infusion is used to manage patients with Traumatic Brain Injury with persistent raised Intracranial pressure (ICP) and in treating intractable seizures. Pupillary abnormalities (unequal or fixed and dilated) can occur as a complication. The aim of this study was to determine factors associated with this complication.

Methods Retrospective review of patients admitted to a tertiary level PICU between 2000–2011 receiving thiopentone infusion or >2 boluses (not as a part of Rapid sequence intubation). 59 patients were identified. Patients who had dilating eye drops were excluded. Quantitative variables are expressed as mean and Standard deviation, qualitative variables as percentages. Student's t-test is used for comparison of quantitative variables.

Results The mean age of study population was 6.5years (\pm 5.3). Thiopentone was used for ICP management in 44 (74.6%) and seizure control in 15 (25.4%) patients. 13 (22%) episodes of pupillary abnormality (of which 8 had fixed and dilated pupils) were recorded in 12(20.3%) patients. Dose/kg (p=0.675), maximum rate of infusion (p=0.37) or duration of infusion (p=0.51) were not significantly related to the occurrence of this complication. Age >9 years was significantly associated (p=0.05) with abnormal pupillary reaction.

Conclusion High dose, maximum infusion rate or longer duration of thiopentone infusion were not associated with abnormal pupillary reaction. Drug levels were not done in all and it is not known whether this complication is a result of genotypic variation in drug metabolism. It is however important to have continuous EEG monitoring to ensure that the optimal dose is administered to the patient.

963 PREGNANCY-ASSOCIATED PLASMA PROTEIN A LEVELS AND NEONATAL COMPLICATIONS IN POST-TERM PREGNANCIES

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¹AR Zizzo, ²I Kirkegaard, ³TB Henriksen, ²N Uldbjerg. ¹Perinatal Epidemiology Research Unit; ²Department of Obstetrics and Gynecology; ³Department of Pediatrics, Aarhus University Hospital, Skejby, Aarhus, Denmark

Objectives To assess the association between serum pregnancyassociated plasma protein A (PAPP-A) measured in the first trimester and perinatal complications in post-term pregnancies.

Methods A total of 4948 singleton pregnant women, who delivered after 40^{+0} gestational weeks, were included at Aarhus University Hospital between January 2005 and December 2007. Serum levels of PAPP-A were determined at the first-trimester screening for Down syndrome (GA $8^{+0} - 13^{+6}$). Labor was not induced routinely until 42^{+0} weeks of gestation. However, in women with diabetes mellitus, gestational diabetes, preeclampsia, hypertension, prelabor rupture of membranes, twin pregnancies, fetal growth restriction and intrahepatic cholestasis, labor were induced by 40 completed weeks or earlier and were not included in the study.

Results In post-term pregnancies first-trimester serum PAPP-A below 0.4 MoM was associated with small weight for gestation (< 5th centile)(OR_{adj} 1.7, 95% CI 0.9–3.0), Apgar score of less than 7 at 5 minutes (OR_{adj} 5.4, 95% CI 2.0–14.3), admission to the neonatal intensive care unit (OR_{adj} 1.5, 95% CI 1.0–2.3), and newborn hypoglycemia (OR_{adj} 3.4, 95% CI 1.8–6.4). In neonates with small weight for gestation the risk of hypoglycemia was increased considerably (OR 14.6, 95% CI 3.4–58.0).

Conclusions Low first trimester serum PAPP-A was associated with increased neonatal morbidity in post-term pregnancies, particularly in newborns with low birth weight. Thus, PAPP-A may qualify the timing of induction of labor in these pregnancies and low PAPP-A may indicate more closely follow-up when past 40 weeks of gestation.

964 IS THE PLACEBO EFFECT REVEALABLE IN NEWBORNS? RESULTS FROM AN RCT IN OSTEOPATHY

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¹F Cerritelli, ²G Barlafante, ²C Renzetti, ²F Ricci, ²N Loprete, ¹G Pizzolorusso, ³P Fusilli, ³C D'Incecco. ¹European Institute for Evidence Based Osteopathic Medicine; ²Accademia Italiana Osteopatia Tradizionale; ³Neonatal Intensive Care Unit, Pescara Hospital, Pescara, Italy

Background and Aims Placebo effect has been largely studied and debated in medicine. Interestingly the majority of studies focused on children and adults but not on newborns. In the field of osteopathic medicine, few studies documented this effect using sham therapy. A previous study showed the association between OMT and LOS on newborns. However, no research were conducted on the placebo effect on newborns osteopathically treated. Therefore the aim of this study is to detect the association between placebo treatment and change in clinical outcome in newborns.

Methods A double blinded randomized control trial was carried out on 250 preterm newborns, GA >29 and <37w and free of medical complications. After enrollment, all subjects were randomly assigned to study (N=107) and control group (N=143). All preterms received routine pediatric care and osteopathic sham therapy was administered to the study group only for the entire period of hospitalization. Primary outcome was to evaluate the effectiveness of sham therapy in reducing LOS.

Results At entry, univariate statistical analysis showed no differences between groups. At the end of the study, after adjusting for all potential confounders, generalized linear model analysis showed no difference on the primary outcome (mean difference between study and control group: 2.444; 95%CI –0.447, 5.337; p=0.09).