Abstracts

1830 HBEAG SEROCONVERSION IN CHILDREN INFECTED DURING EARLY CHILDHOOD WITH HEPATITIS B VIRUS
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Background and Aims Seroconversion of HBeAg to anti-HBe is associated with lower viral load and liver diseases. The purpose of this study was to assess the seroconversion rate of HBeAg to anti-HBe in children who acquired HBV infection during childhood period.

Methods From September 1990 to December 2010, 139 HBeAg positive children were followed up. Eighty-one subjects were failure of Hepatitis B immune globulin (HBIG) and hepatitis B vaccination at birth and 58 children < 10 years who were born before 1990 and did not receive HBIG and vaccine. HBeAg, HBeA, anti-HBs and anti-HBe was assessed every six months.

Results Sixty two (44.6%) cases were males and 77 (55.4%) were females. Mean duration of follow-up was 18±6.6 years. Twenty-four (17.5%) mothers were HBeAg positive and 115 (82.7%) anti-HBe positive. Eighty-two (59%) children became anti-HBe positive. Seroconversion rates in the first, second and third decades were 25%, 63.4% and 70.5%, respectively (p<0.001). The children of anti-HBe positive mothers had higher seroconversion rate than the HBeAg positive mothers (75% versus 33.9%, p=0.0001). Time to seroconversion rates in children born to HBeAg positive mothers was similar to those born to anti-HBe positive mothers (HR=1.03, p=0.975). Time to seroconversion rates in children who received hepatitis B vaccine and HBIG was higher than those who did not (HR=6.35, p=0.001).

Conclusions HBeAg seroconversion in the second and the third decades were higher than the first decade. Children born to anti-HBeAg positive mothers and those who received HBIG and hepatitis B vaccine had higher seroconversion rates.

1831 RUBELLA-VACCINE EFFECTIVENESS SYRS AFTER MASS VACCINATION: MULTI-CENTER SERA-EPIDEMIOLOGIE RETROSPECTIVE COHORT STUDY

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Background The vaccine has been in use since 1969. In December 2003, during mass camping for Measles/Rubella vaccination in Iran, about 38 million doses of vaccine were administered to the 5–25 years old people. This serological survey was conducted to evaluate the effectiveness of Rubella vaccine after Syrs of mass camping in mothers and their neonates.

Methods This was a historical-Cohort study has been done in September (2009–2010). Study population was 180 women (20–30 yrs old) who referred for pregnancy routine care. All pregnant were at first time and didn’t have Rubella-history in the past 5 years. Serum samples of women were evaluated for IgG level and newborn dried blood spot samples were evaluated for IgG and IgM levels.

Results The IgG levels of mothers were 50–10 IU (27.3%), 100–50 (19.3%) and above 100 IU (53%). All of IgM titers in newborns were negative. It was significantly relationship between level IgG of Mothers and Full-Term Newborns (OR=3.45, 95%CI=1.54–7.90).

Conclusion The mass vaccination has been effectiveness then the routin surveillance had to evaluate the IgG levels of reproductive age’s mothers.

1832 MEDICAL STUDENT ATTITUDES AND PRACTICES ASSOCIATED WITH RECEIVING HEPATITIS A VACCINE AND VACCINE ADVERSE EVENT AND EFFECT ON ACCEPTABILITY
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Objective In this study we aimed to assess the attitudes and practices of medical students regarding hepatitis A immunization and also adverse reactions of associated with vaccine and effect on acceptability.

Methods The study was performed on 103 medical students with ages between 20 and 26 years old. All the students vaccinated by the same nurse at Hacettepe University Faculty of Medicine on 14 days in December and answered a questionnaire and follow-up form.

Results The mean student age was 21.69±9.97 years. Pain with movement (58.3%) and pain with touch (38.8%) were the most common side effects at vaccination site. Despite the side effects, all of the vaccinated students wanted to receive the following dose of vaccine. Twelve of the vaccinated students (11.7 %) indicated that the reason of their vaccination was the recommendation of a pediatri- c Infectious disease specialist. One of the major reason for not wishing vaccination was the cost for 60 of them (58.3%).

Conclusions The cost of vaccination and recommendation by infection specialist may have been important to receive hepatitis A vaccination for medical students and also may be for other healthcare workers.

1833 ACUTE NECROTIZING ENCEPHALOPATHY OF CHILDHOOD ASSOCIATED WITH INFLUENZA A

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Background Each year many children suffer from respiratory infections caused by Influenza A virus, but only a limited number experiences severe complications. One of these serious complications is an acute necrotizing encephalopathy (ANEKC).

Methods We report two cases of patients with ANEC following upper airway infection. Both children were referred to our paediat- ric intensive care unit (PICU) due to rapid neurological deteriora- tion and respiratory failure. None had received vaccination against influenza. A 16-year old boy presented with difficulties in speech and motor deficits. A 14-months old girl had multiple focal seizures. Her Glasgow-Coma-Scale was 4 on admittance to PICU.

Results Both patients received a MRI (Magnetic Resonance Imaging) of the brain. The MR imaging findings demonstrated abnormal signal intensity bilaterally in multiple cortical and subcortical regions. In both cases Influenza A was detected on a nasopharyngeal swab by using polymerase chain reaction assay.

Conclusion Both patients were treated with oseltamivir without nota- ble clinical improvement. The boy showed complete recoveries. The girl suffered from increased intracranial pressure within hours after hospital admittance needing urgent external cerebrospi- nal fluid drainage. Her condition was complicated by an acute respira- tory distress syndrome requiring mechanical ventilation. Meanwhile her consciousness has dramatically improved, but we still expect neurological sequelae.

Conclusions To our knowledge severe complications following an infection with influenza are rare but have to be kept in mind when treating a child with respiratory infection and neurological impair- ment. The insufficient response to oseltamivir underlines the need