There was no significant correlation between the number of wheezing attacks (p>0.05).
No correlation between vitamin D levels and acute bronchiolitis was found but this may be the result of few numbers of patients that we studied with.

Introduction  Acute bacterial meningitis which is a pediatric emergency with high mortality and morbidity, must be diagnosed and treated promptly. Determination of some inflammatory mediators, for example IL-6 and hsCRP were useful in differential diagnosis of bacterial and viral meningitis.

Objectives  Determination of hsCRP and IL6 in serum and CSF in children suspected meningitis.

Materials and Methods  From children that hospitalized in pediatric emergency ward and for those performed lumbar puncture, 1cc serum and csf of they were taken to laboratory ward and have measured IL-6 with Elisa method and hsCRP with Immunoturbidimetry method patients were followed up and Finally we compared levels of this two mediators.

Results  From 81 cases, 27 cases (32.83%) were bacterial meningitis 27 cases (32.83%) were viral meningitis and 27 cases (32.83%) were Normal. IL-6 concentration in the csf and serum were significantly raised in cases of bacterial meningitis (P=0.001, P=0.01) but hsCRP concentration in the CSF and serum not significantly raised in cases of bacterial meningitis (P=0.46, p=0.29). Mean IL-6 in serum in bacterial meningitis was (50.01) and in viral meningitis was (10.64) mean IL-6 concentration in the CSF in bacterial meningitis was (180.74) and in viral meningitis was (39.08) mean hsCRP in CSF in bacterial meningitis was (2.22) and viral meningitis was (1.29).

Conclusion  The measurement of IL-6 in the CSF and serum is potentially a very useful diagnostic tool for differential diagnosis of bacterial and viral meningitis.

Background  The aim of this study was to evaluate whether mean platelet volume (MPV) could be used for the diagnostic tool of community acquired pneumonia (CAP) and for making the decision for hospitalization.

Methods  The computerized records of children aged 1 to 18 years who were diagnosed with CAP based on WHO criteria were evaluated. A standard protocol was followed, and patients with severe CAP were hospitalized. CAP patients were divided into two groups based on disease severity. The control group consisted of age- and gender-matched healthy children who attended the “Well-child” clinic during the study period. Values for hemoglobin, white blood cell count (WBC), platelet count, MPV and C-reactive protein (CRP) obtained on first presentation were recorded for each patient.

Results  A total of 139 patients were diagnosed with CAP during the study period, 82 (58.9%) of which had severe disease, which required hospitalization, while the remaining 57 (41.4%) were followed-up as outpatients. The control group consisted of 61 healthy children. Patients with CAP had lower MPV values than their healthy counterparts (7.14±0.70 vs. 8.35±1.26 fL, p<0.001). Following ROC analysis, the cut-off value established for MPV was 8.05, which had a sensitivity of 91% and a specificity of 51% for making a diagnosis of CAP. Patients with severe CAP that required hospitalization had significantly higher CRP levels than those who were followed-up on an outpatient basis (p<0.001).

Conclusions  Our findings suggest that MPV could be used for the diagnosis of CAP in children.

Background and Aim  A broad range of neurologic disorders have been described in children with Lyme disease. In contrast, there are few reports of transverse myelitis in pediatric Lyme disease patients.

Case Report  A 12-old girl admitted with the complaints of weakness in legs, sensory loss in lower limb, and backache for 10 days. Mental status, cranial nerve, and upper-extremity motor and sensory examinations produced normal results. The strength in his ilio- psoas and hamstring muscles was scored 2/5. Deep tendon reflexes
were absent in both lower extremities. Babinski's signs were not noted. The Romberg sign was present. Magnetic resonans imaging (MRI) of the spinal cord revealed enhancing T₂ hyperintensity within the spinal cord, from T₉ to L₁ (Figure 1). Cerebrospinal fluid (CSF) showed no pleocytosis and normal protein and glucose concentrations. The CSF did not show oligoclonal banding and immunoglobulin (Ig)G index was normal. Serum serologic evaluation of Borrelia burgdorferi was positive for IgM but negative for IgG. CSF serologic evaluation was negative (both ELISA and Western blot). The patient was diagnosed as manifesting acute transverse myelitis. He was treated with intravenous methylprednisolone pulse therapy (1000 mg/day for 5 consecutive days), followed by oral prednisolone (1 mg/kg per day). After the start of steroid therapy, the patient showed gradual clinical improvement and was able to walk on the 30th day of illness. We also administered doxycycline 4 mg/kg per day for 14-days for borreliosis.

**Conclusion** This case serves as a reminder that acute transverse myelitis can be a rare clinical manifestation of Lyme disease.

**Results** In the group receiving probiotics, mostly colonizing the stool cultures bacteria were Klebsiella spp, Escherichia coli, Enterococcus spp, Enterobacteriaceae spp, Staphylococcus spp respectively, and in the group not receiving probiotics mostly colonizing the stool cultures bacteria were Klebsiella spp, Enterococcus spp, Staphylococcus spp, Escherichia coli, Enterobacteriaceae spp respectively. When probiotic receiving group compared was with not receiving group, proliferation rate of stool cultures was higher in probiotic group. In the groups receiving and not receiving probiotic, proliferation of the nose cultures were similar. Increase in the proliferation rates of weekly stool cultures in probiotic receiving group was statistically significant but there was no statistically difference in the proliferation rates of nose and other cultures that were taken weekly. There was no statistical difference in both groups in the development of resistant organisms.

**Conclusions** The use of probiotics in neonatal intensive care unit for premature infants who received treatment with antibiotics, did not prevent the colonization of pathogenic microorganisms.

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**Methods** This study comprised of preterm infants who were born < 36 weeks and received antibiotic treatment or prophylaxis. Preterm infants were divided into two groups according to receiving probiotic (Lactobacillus reuteri). Stool culture and nasal swab culture were taken to determine colonization.

**Background and Aims** To investigate the effect of probiotics on colonization of resistant organisms in preterm infants receiving antibiotics.

**Results** Urinary tract infection (UTI) is one of the most common diseases in children. Its diagnosis depends mainly on urine culture. Urinalysis is used as a screening test to exclude UTI. A hospital based, prospective case-review study was carried out at the Pediatric Department, Al-Adan Hospital, State of Kuwait. The objectives of this study is:

1. To determine the proportion of positive urine cultures identified in patient less than 12 years of age, admitted to hospital and was found to have a positive nitrite test in the routine urinanalysis.

**Conclusions** The use of probiotics in neonatal intensive care unit for premature infants who received treatment with antibiotics, did not prevent the colonization of pathogenic microorganisms.