comparewith 10.49 ± 12.44 (pg/ml) in control group)(p<0.001) is higher. It was demonstrated that the average of INF-gamma/IL-13(0.3054 in asthmatic group compared with 1. 9334 in control group) in patients suffering from asthma, is lower. The size of BCG scar in Asthmatic patients was, significantly, smaller than the control group. Moreover, the average of Thelper1(INF-gamma) was lower and the average of Thelper2 (IL-4.13) was higher in asthmatic patients. Therefore, there is a correlation between the size of BCG scar and the levels of Thelper1(INF-gamma) and Thelper2 (IL-4.13) with asthma; thus, there could also be a correlation between the scar size of BCG, Thelper1 and 2.

474 HUMORAL IMMUNITY IN CHILDREN WITH CHRONIC TONSILLITIS

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Background Chronic tonsillitis is a common problem for pediatricians and otorhinolaryngologists. The aim of our study was to evaluate and compare the humoral immunity in children and adults with chronic tonsillitis.

Subjects We examined 24 children and 15 adult patients with chronic tonsillitis.

Methods Immunologic examination included analysis of: total leukocytes; absolute and relative lymphocytes; C reactive protein (CRP), antistreptolysin O (ASO), rheumatoid factor; investigation of humoral immune factors: absolute and relative B lymphocytes, serum IgA, IgM, IgG, circulatory immune complexes, interleukin amount - IL-4, IL-5, IL-18 in blood serum.

Results Increasing level of the absolute lymphocytes amount (2.92 ± 0.24, 2.2 ± 0.11) (p = 0.04), interleukin - 8 (229.09 ± 73.63, 35.05 ± 14.64) (p=0.047) and interleukin - 1 β level (191.19 ± 60.44, 10.88 ± 4.28) (p=0.045) were observed in children. Average indices of interleukin-8 and interleukin - 1 β in children is in 6.5 and 17.4 times higher than in adults.

Serum IgA level in adults was significantly higher than in children (1.36 ± 0.16, 1.92 ± 0.19) (p=0.038). An antistreptolysin-O titre in adults in comparison to children (162.5 ± 45.53; 216.67 ± 45.78) is higher in 1.4 times.

Conclusions Nonspecific defense factors play an important role in children with chronic tonsillitis, while in adults the main role is held by specific immune response. Comparative analysis of anti-inflammatory cytokine synthesis by immune competent cells in chronic tonsillitis proved the fact that in children it is much higher than in adults.

475 AUTOIMMUNE LYMPHOPROLIFERATIVE SYNDROME IB: IMPROVEMENT WITH RAPAMYCIN

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Introduction Autoimmune lymphoproliferative syndrome (ALFS) is a disorder on a defect in the apoptosis of lymphocytes with lymphoproliferation and immune dysregulation. Type Ib, defined by mutation in the gene that encodes the protein FAS-ligand, is a rare entity.

Case report A 9-month-old male infant was referred because a failure to thrive and abdominal distention. Physical examination showed pallor, signs of severe malnutrition, axillary and inguinal lymph nodes, hepatomegaly and giant splenomegaly. Family background: parents, cousins of Moroccan origin, brother died at the age of 4 when he was under study for a giant visceromegaly. Complementary tests highlighted severe anemia (Hb 7.30 g/dl) and thrombocytopenia (platelets 76000/mm3), paravertebral lymphoid proliferation of 4 cm, elevation of IL10, soluble CD25, 28% T lymphocytes double negative (CD4 - and CD8-) in peripheral blood and cell culture with defect of apoptosis in one of the samples. The genetic study identified the mutation of the gene TNFSF6 which encodes FAS-ligand-protein. After the diagnosis of ALPS type Ib, treatment with rapamycin was started at doses of 2 mg/m2 daily. An optimal evolution was observed, with a reduction of visceromegaly size after 30 months of treatment, without adverse events by the time.

Conclusion We emphasize the importance of the suspicion of this entity in children with chronic visceromegaly, especially with family history. Despite the few existing data on treatment with rapamycin for this disease and children in general, we have seen an appropriate response and a good tolerance in this patient.

476 A CASE REPORT OF KARTAGENER’S SYNDROME ASSOCIATED WITH NASAL POLYPS

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Nasal polyps are benign nasal masses that can cause nasal obstruction, headache and snoring. The overall incidence or prevalence of nasal polyposis is unknown. They are diagnosed more frequently in men and during the third and fourth decades of life. Nasal polyps are rare in children. Most clinical data indicate that there is no greater prevalence of nasal polyps among atopic compared with normal populations.

A 14-year-old male patient was referred by an otolaryngologist to investigate the cause of nasal polyposis. There were otitis media, sinusitis and bronchial asthma to patient’s history therefore he used inhale corticosteroid for control long term asthma, sometimes bronchodilatator to asthma attack and antibiotic treatment for sinusitis. No family member had similar respiratory complaints or any significant systemic illness.

His physical examination was found above 97% for weight and height difficulty breathing through nose, bilateral nasal polyposis, rarely sibilan ronchi on pulmonary auscultation and his heart sound was heard deeply. Laboratory findings: Hemogram was normal, IgA:189mg/dl, IgE 203 IU/L, inhalen sIgE and epidermal prick test test were negative, Chest X-Ray showed dextrocardia, A computed tomograph scan of the chest showed situs inversus with lateral segment of right middle lobe tubular bronchiectasis, peribronchial thickening and atelectasis, the right lower lobe tubular bronchiectasis. Pulmonary function testing demonstrated a mixed obstructive and restrictive pattern.

The pathogenic findings of Kartagener Syndrome are dextrocardia, bronchiectasis and sinusitis. His findings were consistent with Kartagener Syndrome. This patient were presented due to nasal polyposis associated with Kartagener Syndrome and delayed diagnosis.

477 CHRONIC RECURRENT SEVERE LIP ANGIOEDEMA IN YOUNG CHILD SECONDARY TO ALLERGIC RHINITIS

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Background and Aims Allergic rhinitis (AR) is a significant disease that affects children and adults and often under-diagnosed which has a deleterious impact on quality of life. Chronic recurrent severe lip angioedema secondary to AR was not previously reported.
Methods We describe a 5-year-old boy who suffered from chronic recurrent severe lip angioedema for more than 2 years. His symptom was not associated with facial rash or any food ingestion. He was also suffering from dental carries therefore dental extraction was performed for that possibly of secondary gingivitis associated lip angioedema, but without improvement. In occasions he had oral ulcers and the possibility of Behçet’s disease was considered for which colchicines was used for more than 3 weeks without benefits. Cervical lymph node biopsy ruled out malignancies.

Results He was found to have chronic congested nasal mucosa. Skin prick test (SPT) for environmental allergens was strongly positive for house dust mites, cockroaches, grass and molds. Nasal findings and SPT confirmed the diagnosis of AR. Over 2 months he has significant improvement (>70%) in his symptoms with AR treatment (ie; fluticasone spry BID, montelukaste 4mg PO OD and loratidine 2.5mg PO OD). Normal C1 esterase level and function ruled out hereditary angioedema.

Conclusion AR is a common disease that should be considered in the differential diagnosis of chronic recurrent lip angioedema. Diagnosis in children may be delayed because of the overlapping diseases (i.e; viral upper respiratory tract infections). However, hereditary angioedema needs to be ruled out as an important cause of recurrent angioedema.

Objectives The research involved tracing some causality relationships among acute bronchiolitis, post-bronchiolitis recurrent wheezing and/or the atopic field. Associations between acute bronchiolitis, post-bronchiolitis recurrent wheezing and atopy antecedents.

Material and method The study group was made up of 118 cases of acute bronchiolitis in the children aged 0–2 years, admitted to the 2nd Pediatric Clinic in Craiova, in 2011. Traceable parameters: demographic (sex, age, gestational age), risk factors (history of pulmonary/heart disease, previous to bronchiolitis onset, prematurity), personal or/and family history of atopy, nutritional state, clinical and radiologic aspects, evolution under treatment, period of hospitalization.

Results Acute bronchiolitis prevalence was of 5%. Most cases were registered in the 6 to 12 months age group (43.2%), males (69.5%), in rural areas (56%), and during cold, wet season (70.2%). 63.6% of the cases had low birth weight. Dystrophy was present in 15.2%, cariental clefts 46.7%, cariental anemia 63.5% of the cases. 28% of the cases developed recurrent episodes of wheezing associated with lower respiratory tract infections. Radiologic images of pulmonary condensation were present in 77% cases with severe bronchiolitis. Severe bronchiolitis form was associated to a hospitalization period of 7–14 days. The atopic aspect was noticed in 9.3% of the cases. Children with atopy history had a longer period of symptoms and more days of hospitalization as compared to the ones without atopy antecedents.

Conclusions Cigarette smoke exposure, cariental clefts, dystrophy, low birth weight, atopy association, all represented risk factors which significantly contributed to the appearance of post-bronchiolitis recurrent wheezing in infants and young children.

Background and Aims Bordetella pertussis and B. parapertussis are the causative agents of whooping cough, a re-emerging infectious disease in spite of reasonable vaccination coverage. Specific diagnostic tools were applied for the first time in a Tunisian prospective study in order to get an estimation of the prevalence of Bordetella infections, and to evaluate their use to determine the epidemiological characteristics of these infections in Tunisian infants.

Methods Between 2007 and 2011, a total of 626 samples from 599 infants aged <1 year with and without pertussoid cough were investigated for the presence of B. pertussis/parapertussis using culture and real-time PCR (RT-PCR). When possible, patients’ household contacts provided nasopharyngeal aspirates (NPAs) for RT-PCR detection of B. pertussis/parapertussis or single-serum samples for anti-PT IgG quantification.

Results All except 1 NPA were negative by conventional culture whereas PCR gave positive signals for 126 specimens (21%): B. pertussis, B. parapertussis and Bordetella spp. were detected in 82, 6 and 4% of the samples, respectively. The simultaneous presence of B. pertussis and B. parapertussis was noted in 8% of the cases. The prevalence of Bordetella infection was 20%. Most of these cases corresponded to patients younger than 6 months old who received <3 doses of pertussis vaccine. Among the household contacts enrolled in the study, mothers were the likely source of infection in 4 cases.

Conclusions This study showed that pertussis is still prevalent in Tunisia and the disease remains a public health problem affecting not only infants but also adults.