Glucose-6-phosphate dehydrogenase (G6PD) deficiency is the most common red blood cell enzyme deficiency. The virus antigen was also detected by flow cytometry using monoclonal antibody specific for NP labeled with fluorescein isothiocyanate (FITC). Interestingly, most of positive cells were CD14+ cells and the amounts of positive cells were 10% of total marrow cells. His immunological profiles were normal.

**Conclusion** This infant demonstrated the evidence of disseminated pandemic H1N1 influenza prior having pneumonic symptoms. Infant is more susceptible to have disseminated manifestation and can present initially as clinical sepsis.

**ASPERGILLUS NIGER: AN UNUSUAL CAUSE OF INVASIVE PULMONARY ASPERGILLOSIS**

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**Objective** Report two cases of chronic granulomatous disease presenting with uncommon cause of invasive pulmonary aspergillosis (IPA).

**Methods** We report two cases of IPA in two 6-year-old twin girls with a family history of primary immunodeficiency and a personal medical history of recurrent bronchopneumopathy referred to our Pediatric Department in July 2011 for investigations regarding persistent pneumonia and biological inflammatory syndrome. IPA was confirmed by isolating Aspergillus niger from bronchoalveolar lavage and radiology results. Amphotericin B therapy was initiated intravenously for 1 month relayed then by oral voriconazole for two months. Clinico-biological evolution was favourable. Follow-up computed tomography showed full regression of the pulmonary infiltrates and the thoracic wall mass after 3 months of antifungal therapy. Investigation for immune deficiency revealed chronic granulomatous disease. Our two patients started then on prophylactic antibiotics with co-trimoxazole. We are currently considering HLA identical bone marrow transplantation for them in a near future.

**Conclusion** Although is a well recognized clinical entity, invasive disease caused by aspergillus niger is less common when compared to aspergillus fumigatus and other Aspergillus species. These two case reports demonstrate the potential aggressive nature of aspergillus niger and highlight the importance of looking for an immune deficiency particularly in the case of uncommon infection such as aspergillosis in early childhood.

**A CASE REPORT: BRUCELLOSIS TRIGGERING HEMOLYTIC ANEMIA IN GLUCOSE-6-PHOSPHATE DEHYDROGENASE DEFICIENCY**

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**Background and Aims** Glucose-6-phosphate dehydrogenase (G6PD) deficiency is the most common red blood cell enzyme deficiency in worldwide. It may lead to acute hemolytic anemia triggered by infection, drugs or broad beans (favism). To the best of our knowledge, this is the second reported case of a Turkish patient with brucellosis triggering hemolytic anemia in glucose-6-phosphate dehydrogenase deficiency.

**Case** A 5-year-old male was admitted our hospital with malaise, fever, abdominal pain, vomiting, jaundice, and darkening of urinary color of one week duration. There were no intake drug, infectious diseases or favism in patient’s history. On physical examination conjunctivae were pale, sclerae were subicteric and the other system examinations were normal. Laboratory examinations revealed leukocyte count of 22800/mm³, hemoglobin of 5.7g/dl, platelets of 596000/mm³, total bilirubin:4.3, indirect bilirubin:3.9 mg/dl, lactate dehydrogenase:1440U/L, AST:190U/L, ALT:181IU/L. The corrected reticulocyte count was 9.3% and serum haptoglobin level was low (<10). There was hemoglobinuria in the urinary examination. Direct and indirect Coombs tests were negative. The value of G6PD was low (3.8 IU/g) where osmotic fragility was normal. Serum standard tube agglutination (Wright) test for Brucella sp was positive at a titer of 1/640. The patient was treated by rifampicin and gentamicin.

**Conclusion** We presented this case report to show that acute brucellosis might trigger an acute hemolytic attack in a patient with underlying G6PD deficiency. This is important especially in countries such as Turkey, where brucellosis is endemic and there is a high frequency of G6PD deficiency in the population.