respectively. The overall incidence of G6PD enzyme deficiency was 12.96%. Of the total neonates 660 neonates suspected to have sepsis were referred to neonatal intensive care units, but finally after exclusion of other causes such as metabolic disorders and hypoxic ischemic encephalopathy, 110 patients (68 males and 42 females) were admitted and screened with impression of sepsis. The G6PD enzyme deficiency was proved in 15 (13.6%) of them. There was no statistically significant difference between male and female gender in this group ($P=0.78$). Table 1 shows the prevalence of G6PD deficiency and sepsis among 150,996 newborns in southern Iran. Few studies on the G6PD deficiency and increased chance of infection were so far carried out. Several reasons for this relationship are considered.

Our study showed that G6PD deficiency does not increase the chance of neonatal septicemia. Because of different variety of G6PD deficiency in different populations more studies by larger study groups is recommended for evaluation of relationship between G6PD deficiency and bacterial infection and sepsis.

**Key words:** G6PD Deficiency; Neonate; Sepsis; Prevalence

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**A Case of Pneumoscrotum Following Spontaneous Colonic Perforation and Mimicking Strangulated Inguinal Hernia**

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Received: Dec 18, 2012; Accepted: Jan 26, 2013; Online Available: Jan 31, 2014

**Sir,**

We would like to present an idiopathic sigmoid colon perforation revealed with a rare manifestation of pneumoscrotum.

A forty two days old boy was referred to us because of agitation, progressive abdominal distention and swollen scrotum (Fig. 1). There were not any symptoms of other gastrointestinal tract such as nausea, vomiting, diarrhea, fever and the change of the stool color.

On physical examination, the infant had tachycardia and tachypnea. His abdomen had distention but was soft and lax, and his scrotum had swelling with red skin that led us into a consideration of strangulated inguinal hernia.

Portable CXR was normal but plain abdominal x-ray three hours later revealed bowel distention, specially in the distal colon, with free intra-peritoneal gas (Rigler’s sign)(Fig 2). A small bubble of gas was seen in the left scrotal region. According to the Rigler’s sign, we made a tentative diagnosis of bowel perforation resulting from left sided inguinal hernia.

**Fig. 1:** A 42 day old boy with agitation, progressive abdominal distention and an erythematous swollen scrotum

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Fig. 2: Abdominal x-ray shows free intraperitoneal gas and Rigler sign (gas in the inner and outer side of the bowel loop- arrow). The open arrow shows gas in the left scrotal sac.

Since 1912 (the first reported case)[3], there are few reported pneumoscrotum due to procedural or pathologic processes[4]. We think that our patient was the first case which reported spontaneous colonic perforation with unknown etiology, which presented with pneumoscrotum during the last decades.

Endoscopic (upper and lower) and laparoscopic procedures were the second and third most common causes, respectively[5].

Therefore, as mentioned above, the finding of gas in the scrotal sac may be an early sign of a life-threatening condition like visceral perforation or may represent an incidental finding associated with more benign conditions like laparoscopic procedures.

In conclusion, although a combination of free abdominal gas and distended abdomen usually make the diagnosis evident and surgical intervention should be the rule[9], this case presentation reminds us that eventhough pneumoscrotum is a benign, rare condition, its mere presence should signal the possibility of a severe, life-threatening disease process within the peritoneum like bowel perforation or retroperitoneum like pancreatic or renal abscess.

**Key words:** Pneumoscrotum; Perforation; Inguinal Hernia

**Acknowledgement**

The authors would like to thank the staff of Non-Communicable Pediatric Diseases Research Center of Amirkola Children Hospital.

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