A Case Report, Ileo-Ileal Intussusception in Preterm Neonate: An unusual location

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Abstract

Background: Intussusception is rare cause of surgical emergency in neonate, and still more rarer in preterm neonate. The clinical features can mimic necrotising enterocolitis or intestinal obstruction. If left untreated, it can lead to adverse outcomes.

Case summary: We report a case of ileo-ileal intussusceptions in a male preterm infant of 28 weeks of gestation who was born to a primi mother from south India. The neonate initially had feed intolerance, abdominal distention and recurrent apneas on day 8 of life. The x-ray abdomen also showed pneumatosis intestinalis. We kept necrotising enterocolitis as the primary diagnosis. As the neonate deteriorated, surgical exploration was planned. The diagnosis of ileo-ileal intussusceptions was made only at the time of laprotomy. Resection of the gangrenous segment and anastomosis of the healthy gut was done.

Conclusion: Intussusception can mimic other abdominal conditions in the neonatal period. Timely suspicion and intervention can improve the outcomes.

Keywords: Intussusceptions; Preterm; Ileo Ileal; Necrotising Enter Colitis

Introduction

Ileo-ileal Intussusceptions occurrence is very rare in neonatal period and even extremely rare in preterm neonate [1]. The early diagnosis is very important to prevent further complications and adverse outcome. Successful management depends on the early diagnosis and immediate management [2]. We present a case of male preterm neonate presented with clinical features of necrotising enterocolitis and finally diagnosed as ileo-ileal Intussusceptions.

Case Report

Figure 1: Gross abdominal distension.
segment and reduction of the intussuscepted segment were done. Post operatively, baby required mechanical ventilation for 4 days then weaned to non invasive mode. Gradually feeding started and baby discharged on 84th day of life.

The most common site for the intussusception is ileo colic but it can occur in the other positions like jejuno jejunal, ileo ileal and colico colico [6]. The cause for preterm intussusception still not clear, usually considered as hypoxia or hypo perfusion or some maternal risk factors which act as lead factors. In our case the ultrasound couldn’t pick up the intussusceptions may be because of ascites or largely dilated bowel loops. In our case there are also signs of necrotising enterocolitis, it’s difficult to judge that either this is because of intussusceptions or necrotising enterocolitis preceding the intussusceptions.

Conclusion

The neonate with high index of suspicion with no evidence of sepsis, limited to abdomen and clinically stable can undergo contrast enema or abdominal ultrasonography which is more helpful for early diagnosis and management of the intussusceptions.

Author’s contributions

SJP, SST and SC are the treating team for the neonate. SC have collected the relevant clinical data and formulated the initial draft of case report. SJP and TPO reviewed the literature and corrected the manuscript. SR is the chief surgeon in the surgical team which operated on the neonate. He also looked at the initial manuscript and critically reviewed the same. All the authors have gone through the final manuscript and accepted it.

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