Background CDH was the most common cause of death in newborn group of surgical patients in our hospital. Statistics significantly changed after introducing the delayed approach of surgical correction.

Objectives Study objectives are to assess the effectiveness of delayed surgical correction in patients with CDH.

Methods We compared two groups of patients with CDH, who underwent the surgery. In the first group, since 1978, great majority of patients were operated in first 24–48 h of life. In second group, since 2007, time of surgical intervention was approximately at 98 h after birth. In 98%, in both groups, diaphragmatic defect was primarily closed. Only in 2% of cases patch or silo was used. None extra corporal membrane oxygenation or preoperative NO was never used.

Conclusion Delayed surgical correction – 96 h after birth, after initial management and pulmonary support, improves the outcome in patients with CDH, compared with surgical intervention in first 24–48 h of life.

Background and aims The treatment of newborns with congenital diaphragmatic hernia (CDH) is still actual problem. Changing management tactics has led to an improvement in results last decade. The mini-invasive surgical procedure was developed and introduced in clinic adding new abilities.

The goal is to determine the effectiveness of thoracoscopy in treatment of CDH in newborns.

Methods The retrospective analysis of treatment of 127 infants with CDH during the period from 1993 to 2013 in Paediatric Surgery Centre of Minsk, Belarus was conducted. From 1993 to 2006, the newborns were operated on 1–2 day admission. Traditional methodlaparotomy and thoracotomy applied in 59 of 65 children in this group, 16 patients died. Post operative lethality was 27.1%, the overall mortality rate30.7%. Postoperative complications have demanded 18 (30.5%) reoperations in 13 patients, including 4 hernias relapse. From January 2007 operation are produced only in children with stable condition and the delay passage of meconium. 521). Infants were referred on d1 (1–10) RB was performed on day 9 (2–37), 85% were initially managed with rectal washouts and discharged home. 2 infants required an operation in the neonatal period. The remainder underwent surgical procedure on day 159(61–521).

Conclusion HD needs to be considered and a RB performed in infants with consistent history and examination. The abdominopelvic dissection or history of delayed passage of meconium. The incidence of HD may be higher in some populations and this should be evaluated further.

Background Hirschsprung Disease (HD) is characterised by the absence of ganglion cells in the distal bowel commonly presents in neonatal period with a suggestive history. However a rectal biopsy (RB) is required to confirm the diagnosis. The reported incidence in the UK is 1:5000.

Aim To describe the clinical characteristics of neonates with HD presenting to a regional neonatal surgical centre.


Results 15/51 infants evaluated had a positive rectal biopsy (RB) 4 infants were inborn (Inborn Incidence 1/3000), 11 were referred from 7 other London hospitals. Initial presenting complaint in the HD (non HD) groups was: Abdominal distention 93% (95%) Delayed passage of meconium 78.5%,69.5%) Bilious vomiting 57% (82%), Poor feeding 7% (35%).

Gestation age (mean,(range)) was 39 (37–41). Infants were referred on d1 (1–10) RB was performed on day 9 (2–37), 85% were initially managed with rectal washouts and discharged home. 2 infants required an operation in the neonatal period. The remainder underwent surgical procedure on day 159(61–521).

Conclusion HD needs to be considered and a RB performed in infants with consistent history and examination. Especially abdominal dissection or history of delayed passage of meconium.

The incidence of HD may be higher in some populations and this should be evaluated further.