

Portal gas in neonates; is it always surgical?: A case report

Altokhais TI *et al.* Portal gas in neonates

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Abstract

BACKGROUND

Hepatic portal venous gas in infants is frequently due to late presentation of necrotizing enterocolitis which is considered a relative indicator for surgical intervention.

CASE SUMMARY

A preterm baby underwent an umbilical catheter placement and discovered in abdominal radiograph to have air in the portal venous system due to malpositioning of the umbilical catheter.

CONCLUSION

Hepatic portal venous gas in infants without signs of necrotizing enterocolitis could result from malposition of umbilical venous catheter, and in that case, should be managed medically, with no need for surgical intervention.

Key words: Portal gas; Neonate; Necrotizing; Enterocolitis; Umbilical; Catheter

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The occurrence of **gas** in **portal** veins has been described in **literature** as pneumoportogram, **gas** embolisation of the **portal** vein or **portal** venous **gas**. It was first described as hepatic **portal** venous **gas** (HPVG) in 1978 by Libman, et al. Until 1968, HPVG was viewed as an inevitable harbinger of death with a mortality rate of over 90%.

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Jul 14, 2020 · 1. Background. Hepatic **portal** vein **gas** was first introduced by Wolff and Evans in 1955 in **neonatal** necrotizing enterocolitis []. In 1978, Liebman et al. reported that **gas** in the **portal** vein was associated with a mortality rate of 75% []. With the advancement of imaging technology, it is gradually recognized that HPVG is not a disease and cannot be used as a predictor of death alone, but may be a ...

Author: Chun Liu, Chang-Wei Wu, Xiang-De Zhe...

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Portal venous gas has a high carbon dioxide content,[] which is expected to exist only briefly in the vascular system before being absorbed or removed by bulk flow, unless the **gas** production persists. The **portal venous gas** may also be related to an increase in intra-luminal pressure, which forces intra-luminal **gas** through a damaged or undamaged bowel wall where it is absorbed into the **portal** ...

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Secondary to Feeding Tube: **A Case Report**. SM J Pediatr Surg. 2016; 2(1): 1009. OPEN ACCESS

www.ncbi.nlm.nih.gov/pmc/articles/PMC2772243/ Introduction: Gastric perforation **in neonates** is a rare, serious and life threatening condition. It is