

The embryogenesis evidence of foregut duplication cyst

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A research team from United States reported two cases of gastric duplication cysts with a pseudostratified respiratory epithelium, with emphasis on their immunophenotype and embryogenesis. They explored the possible embryogenesis of these lesions in the light of thyroid transcription factor-1 and surfactant expression.

Foregut duplication cyst of the stomach is rare. Foregut duplications may or may not communicate with the [gastrointestinal tract](#), and are usually diagnosed at a young age. There have been relatively few case reports describing this entity. Adenocarcinoma has been reported in four cases of gastric duplication cyst, but not in cysts that have a ciliated epithelium. Controversy exists concerning the embryological origin of these anomalies.

A research article to be published on January 7, 2011 in the [World Journal of Gastroenterology](#) addresses this question. The authors presented two cases of gastric ciliated duplication cyst with emphasis on immunophenotype and embryogenesis.

Two cases showed that the cysts are lined with a pseudostratified respiratory epithelium with ciliated cells, which express thyroid transcription factor-1 and surfactant. This suggests an origin from the respiratory diverticulum, which arises from the ventral foregut and could also explain why these [cysts](#) do or do not maintain their connection to the gastrointestinal tract.

Further research is required to explore the proposed mechanism. Better understanding of the embryogenesis of these [lesions](#) could lead to early diagnosis or even prevention.

More information: Khoury T, Rivera L. Foregut duplication cysts: A report of two cases with emphasis on embryogenesis. World J Gastroenterol 2011; 17(1): 130-134

www.wjgnet.com/1007-9327/full/v17/i1/130.htm

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