

LEFT-SIDED GASTROSCHISIS: HIGHER INCIDENCE OF EXTRA-INTESTINAL CONGENITAL ANOMALIES

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Purpose: To present 3 cases of left-sided gastroschisis and to review the literature concerning presentation and associated anomalies in this rare condition.

Methods: A chart review of 3 previously unreported patients with left-sided gastroschisis was performed. A systematic literature review of all reported cases of left-sided gastroschisis was also completed.

Results: A total of 15 patients with left-sided abdominal wall defects were identified in the English literature, only 11 of which had classic periumbilical defects. In addition, we present 3 patients with the following characteristics:

	<u>Sex</u>	<u>Gestational age</u>	<u>Birth weight</u>	<u>Associated Anomaly</u>
Patient 1	F	34 wks	3.1 kg	Absent corpus callosum
Patient 2	F	35 wks	2.2 kg	Cerebral AV malformations
Patient 3	F	34 wks	2.2 kg	Atrial septal defect (ASD)

Of these 14 patients with left-sided periumbilical defects, 11 were female. One patient's sex was not reported. Five patients (36%) had extra-intestinal congenital anomalies, including pseudoexstrophy, ASD, PDA, ureteral reflux, and situs inversus, in addition to the anomalies listed above. The incidence of prematurity, rate of primary closure, and risk of postoperative NEC in these patients was 50%, 50%, and 21% respectively. The mean birth weight was 2.4 kg.

Conclusions: Left-sided gastroschisis is a rare phenomenon most commonly seen in females. The incidence of extra-intestinal congenital anomalies is significantly higher in left-sided compared to right-sided gastroschisis. The etiology of left-sided gastroschisis remains unknown, but given the high association of extra-intestinal anomalies, may differ from that of right-sided defects. Patients diagnosed with left-sided gastroschisis should undergo further evaluation to assess for extra-intestinal congenital anomalies.