

SV-2: SYSTEMATIC REVIEW ON SURGICAL TREATMENT OF ANNULAR PANCREAS

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Background Annular pancreas presents as duodenal obstruction in neonates (atresia) and children (stenosis). Laparoscopic treatment, first described by Nikolaas Bax in 2001, generally involves a Kimura duodeno-duodenal diamond-shaped anasto-

mosis. Aiming to appraisal the advantages of laparoscopy, we analysed our and other series published worldwide.

Materials and methods We gathered clinical information of all children with the diagnosis of annular pancreas proposed for laparoscopy at our department, between June 2011 and June 2016. We compared this data with studies published in English since the year 2000, selected upon a systematic review, using the key-words: annular pancreas, duodenal atresia and congenital duodenal obstruction. Focus was given to age at presentation, surgical technique, time to first feeding, length of stay and survival rate.

Results We present patients characteristics and results obtained in our series and others published in the literature, in the table.

Articles	SURGICAL TECHNIQUE	n	Age at presentation	Average time to first feeding (days)	Average time of length of stay (days)	Survival rate (%)
Our series. 2016	Laparoscopy	5	1 day–3 yo	6.6	11	100
Li et al. China 2014	Laparoscopy	11	1–13 days	5	10.6	91
Yigiter et al. Turkey 2010	Open	22	1 day–2 months	15.4	24.1	63.6
Mustafawi et al. United Arab Emirates 2008	Open	30	3 day–3 months	-	22.5	100
Jimenez et al. California 2003	Open	16	1 day–2 yo	8.4	24	100

yo — years old

Conclusions Laparoscopic treatment of annular pancreas is not only safe and feasible, but improved outcomes concerning time to first feeding and length of stay.

Keywords annular pancreas, congenital duodenal obstruction, laparoscopy