



Success Of Conservative Treatment of Acute Appendicitis In The Presence Of A Retained Faecolith.A systematic Review

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Introduction :

The main management of acute appendicitis has typically been appendicectomy rather than the non-operative approach. Non-operative management showcases fewer complications but comes with risk of relapse that leads to conversion to surgery. Acute appendicitis is correlated to fecalith presence in 13-16 % of cases. There is a controversy regarding the failure of conservative treatment in the presence of fecalith. This systemic review is to study the success of conservative treatment in appendicitis with fecalith existence.

Methods:

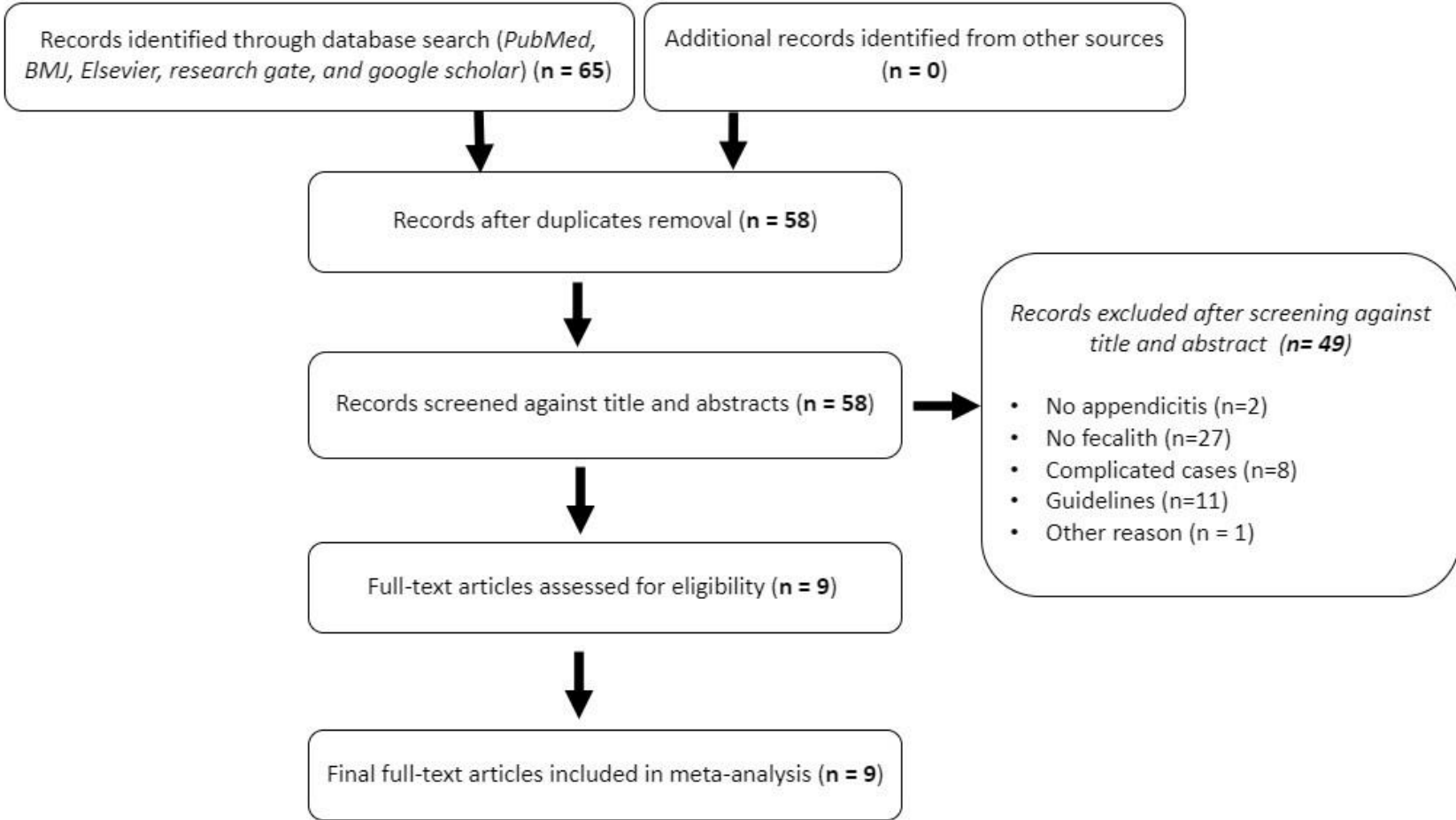
PICO framework was used.
POPULATION: Acute appendicitis with fecalith at any age or gender (Excluding complicated appendicitis, cases with comorbidities & appendicitis without fecalith).
INTERVENTION: non-operative treatment with antibiotics.
COMPARISON: Surgical appendicectomy was compared to non-operative management.
OUTCOME: Complications that need intervention or surgery within one month are considered a failure.

Discussion:

We are assessing the non-operative treatment of appendicitis with fecalith. Antibiotics are an approved method of treatment yet there is controversy about how we can use antibiotics in appendicitis with fecalith. This is a systematic review to discover the safety of using this method in treating appendicitis with fecalith or proceeding with appendicectomy.

Conclusion:

Surgical treatment of fecalith in acute appendicitis is more successful than non-operative treatment. Non-operative treatment was successful in 62.2% of patients but surgical management had a success rate of 91.7%.



PRISMA flow chart

STUDY	SUCCESS OF CONSERVATIVE	FAILURE OF CONSERVATIVE	SUCCESS OF SURGICAL	FAILURE OF SURGICAL	TYPE OF SURGERY	CONSERVATIVE LENGTH OF STAY	SURGICAL LENGTH OF STAY
VONS C., ET AL., 2011	13	6	13	0	open/laparoscopic	4 days	3 days
ZHANG ET AL., 2013	47	2	NA	NA	appendectomy	6-18 days	NA
SVENSSON ET AL., 2015	2	3	7	0	Laparoscopic appendectomy	2 days	1.5 days
TANAKA Y ET AL., 2015	18	1	NA	NA	laparoscopic appendectomy	6.6 days	6.5 days
SCOTT A ET AL., 2018	9	10	NA	NA	NA	1 day	20 hours
LEE SL ET AL. 2018	26	25	22	10	laparoscopic appendectomy	2 days	2 days
KNAAPEN ET AL., 2019	0	2	1	0	appendectomy	1 day	1.5 days
CODA COLLAB ET AL., 2020	120	92	196	6	laparoscopic appendectomy	2 days	1.6 days
MAHIDA JB ET AL.,2016	2	3	3	6	Appendectomy	1 day	NA
TOTAL	237	144	242	22	-	-	-

Table 2: the failure, success & length of stay of both conservative and surgical methods

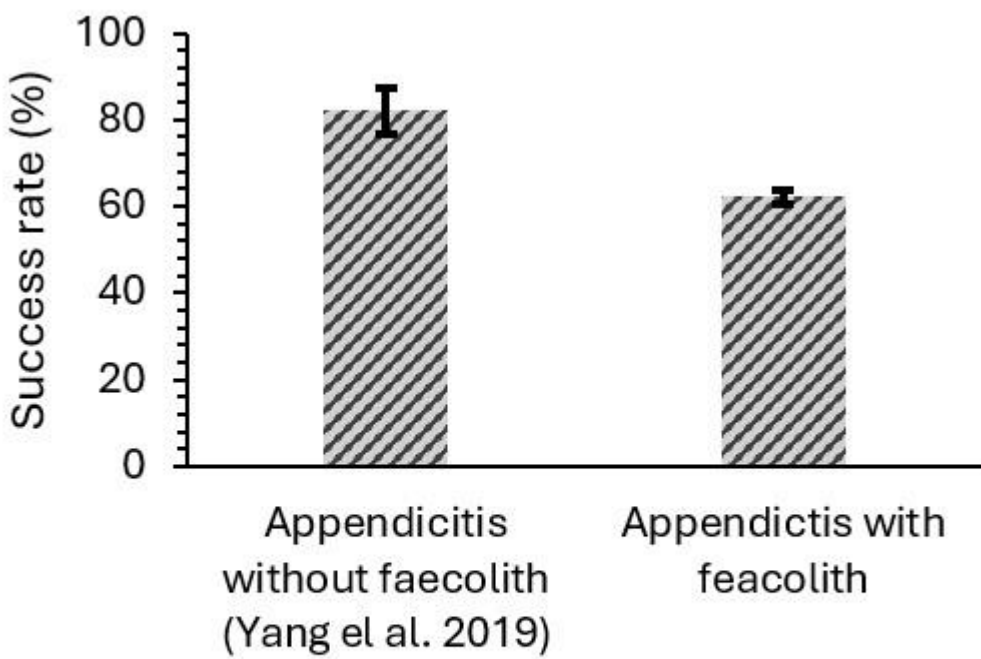


Figure 2 – Bar chart displaying the success rates of conservative treatment in appendicitis without vs with faecolith.