

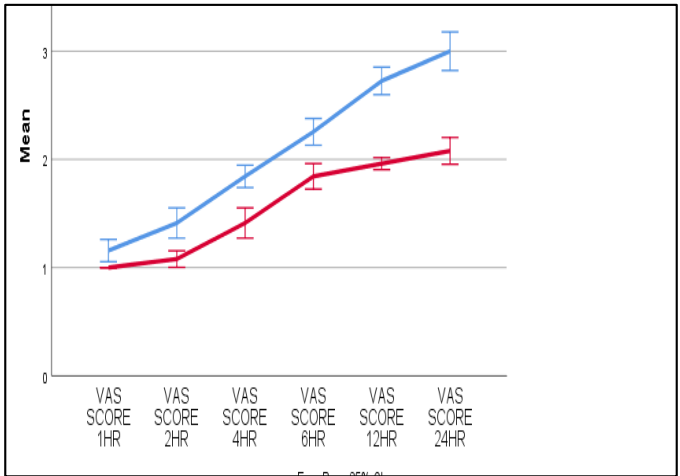
Objectives :

PRIMARY OBJECTIVE: To determine the analgesic efficacy of transverse abdominis plane (TAP) block in laparoscopic hysterectomy.

SECONDARY OBJECTIVE: To assess postoperative analgesic requirements. To assess the incidence of side effects.

Methods: This study is a randomized controlled study, each group contains sample size of 50 and the study will be conducted in Department of Obstetrics & Gynecology, JSS Hospital, Mysuru. Patients undergoing elective laparoscopic hysterectomy in JSS hospital, Mysuru. Under laparoscopic guidance 20 ml of 0.25% bupivacaine instilled on each side at 2 sites (10 ml at each site) in subcoastal margin lateral to the lateral border of rectus muscle and midway between subcostal margin and iliac crest

Results: 45% of subjects are below 45years. 47.1% of the subjects underwent TLH for fibroid uterus. Comparison of VAS score in study and control group shows that lower VAS score was being recorded at



Postoperative Pain comparison as VAS between two groups

	Group						
	Normal Saline			TAP block			
	Mean	Standard Deviation	Median	Mean	Standard Deviation	Median	
VAS SCORE 1HR	1	0	1	1	0	1	0.003
VAS SCORE 2HR	1	0	1	1	0	1	<0.0001
VAS SCORE 4HR	2	0	2	1	0	1	<0.0001
VAS SCORE 6HR	2	0	2	2	0	2	<0.0001
VAS SCORE 12HR	3	0	3	2	0	2	<0.0001
VAS SCORE 24HR	3	1	3	2	0	2	<0.0001

1,2,4,6,12,24hr in study group and compared with control group. VAS Score of 2 noted in 80.4% at 6hr, 96.1% at 12hr, 80.4% at 24hr in study group compared to control group. Use of analgesics were reduced in study group than control group. The postoperative use of promethazine + pentazocine is 33.3% in study group compared to control group where it is 80%. The episodes of vomiting and nausea is not statistically significant in study and control groups.

Conclusion: Our study suggests that ultrasound-guided TAP block is an effective alternative to opioids for postoperative pain management and can therefore be considered a key element of a multimodal analgesic strategy.

References: Choi JB, Kang K, Song MK, Seok S, Kim YH, Kim JE. Pain characteristics after total laparoscopic hysterectomy. International journal of Medical sciences. 2016;13(8):562.

Mishra N, Bhagat M, Haque E, HAQUE E. The Efficacy of Transverse Abdominis Plane Block for Postoperative Analgesia in Laparoscopic Hysterectomy: A Randomized Prospective Study. Cureus. 2023;15(2):1-4.