

Table 1 Demographics and doses of drugs administered

Parameters and Drugs	Group D	Group F
Gender		
- Male	16 (53.3%)	12 (40%)
- Female	14 (46.7%)	18 (60%)
Age (years)	39.8±16.9	33.8±13.1
Mean±SD		
Weight (kg)	55.8±10.6	61.13±14.6
Mean±SD		
ASA Status		
- I	20	22
- II	10	8
Type of surgery		
- Ear	26	22
- Maxillomandibular	2	2
- Throat	2	6
Dexmedetomidine/ Fentanyl (mcg)		
- Loading dose	55.89±8.9	48.3±5.9
- Maintenance dose	85.5±35.5	44.3±11.3
Thiopentone (mg)	247.2±52.7	309.09±64.85
Vecuronium (mg)	9.2±2.4	10.23±1.5
Propofol (mg)	125.8±35.4	192.5±21.2

Abbreviation: ASA, american society of anesthesiologists; SD, standard deviation

Table 2 Cost of drugs incurred during Anesthesia and ICER Calculation and Duration when rescue analgesia was administered

Drugs	Total cost incurred (₹)				p value
	Group D		Group F		
	Total Cost	% Cost	Total Cost	% Cost	
Dexmedetomidine	14824	33.37	-		
Fentanyl	-		2468	7.27	
Glycopyrrolate	345	0.77	345	1.01	
Ondansetron	711	1.60	711	2.09	
Midazolam	168	0.37	168	0.49	
Sevoflurane	10200	22.96	10200	30.07	
Neostigmine	705	1.58	705	2.07	
Succinylcholine	2880	6.48	2880	8.49	
Thiopentone	373	0.83	539	1.58	
Propofol	849	1.91	955	2.81	
Vecuronium	4479	10.08	5338	15.7	
Paracetamol	8680	19.54	9300	27.42	
Drugs used for ADR management	203	0.45	307	0.9	
Total direct cost (₹)	44417		33916		0.00001
Effectiveness	76.6		46.6		
(%patients within CVSR in VAS pain score)					
CER (Rs)	579.85		727.8		
ICER (Rs)	350				

Time	No. of patients in group D	No. of patients in Group F
3-5 hours	3	21
6-8 hours	27	9
Total	30	30

Abbreviation: ADR, adverse drug reaction; CVSR, clinically significant VAS score reduction; VAS, Visual Analogue Scale; ICER, Incremental Cost Effectiveness Ratio

Table 3 Sensitivity Analysis with simulating increasing the total cost

Mean of total cost was increased	Dexmedetomidine	Fentanyl
0%	44,417	33,916
5%	46,637.8	35,6111.8
10%	48,858.7	37,307
15%	51,079.5	39,003.4
Effectiveness (%)	76.6	46.6
(Attainment of CVSR)		
0%	579.85	727.8
5%	608.84	764.2
10%	637.84	800.59
15%	666.83	836.98

Abbreviation : CVSR, clinically significant VAS score reduction