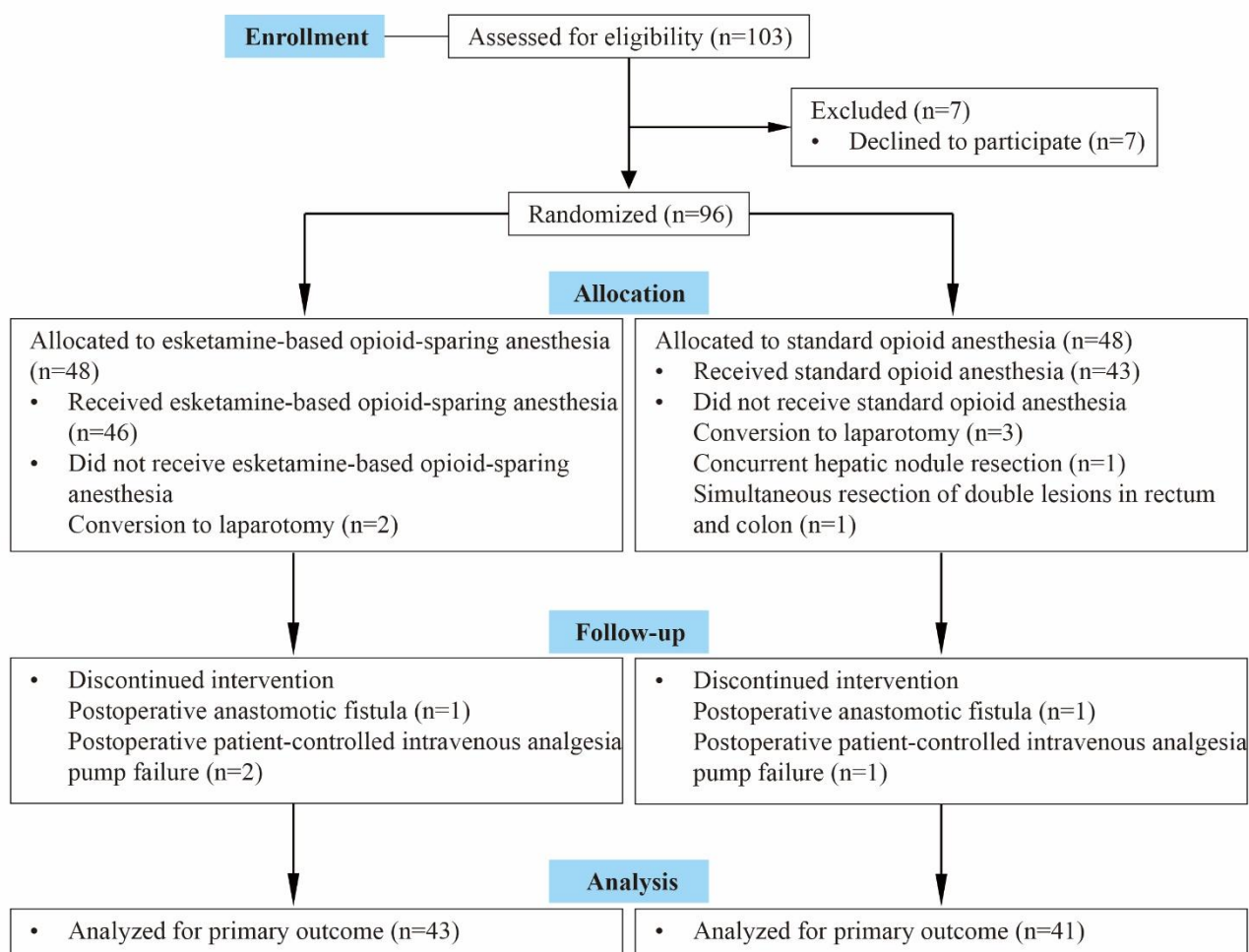




Baseline Characteristics:

Baseline demographic and clinical characteristics

	Esketamine-based opioid-sparing anesthesia (N=43)	Standard opioid anesthesia (N=41)
Age (years)	64.4 (7.3)	64.3 (8.5)
Sex (female)	23 (53.5%)	18 (43.9%)
ASA:		
II	42 (97.7%)	38 (92.7%)
III	1 (2.3%)	3 (7.3%)
Height (cm)	162.2 (7.3)	164.1 (8.0)
Weight (kg)	62.7 (9.9)	64.1 (10.2)
BMI	23.8 (2.9)	23.7 (2.5)
Hypertension	23 (53.5%)	23 (56.1%)
Diabetes	6 (14.0%)	8 (19.5%)
Smoking status:		
male	14 (32.6%)	15 (39.0%)
female	0 (0)	1 (2.4%)
History of PONV / History of Motion Sickness:		
male	0 (0)	0 (0)
female	2 (4.7%)	0 (0)
Apfel Risk Score:		
1	14 (32.6%)	15 (36.6%)
2	6 (14.0%)	9 (22.0%)
3	21 (48.8%)	17 (41.5%)
4	2 (4.7%)	0 (0)
Surgical site:		
Left colon	3 (7.0%)	3 (7.3%)
Right colon	9 (20.9%)	7 (17.1%)
Sigmoid colon	14 (32.6%)	16 (39.0%)

	Esketamine-based opioid-sparing anesthesia (N=43)	Standard opioid anesthesia (N=41)
Rectum	17 (39.5%)	15 (36.6%)
Operating time (min)	135.0 (115.0, 165.0)	127.0 (105.0, 152.5)
Anesthesia time (min)	160.0 (140.0, 190.0)	155.0 (135.0, 175.0)
Extubation time (min)	28.8 (6.4)	32.2 (8.8)
Amount of bleeding (ml)	30.0 (20.0, 50.0)	30.0 (20.0, 50.0)
Urine volume (ml)	100.0 (100.0, 200.0)	100.0 (100.0, 262.5)
Volume delivered (ml)	1283.7 (302.3)	1389.0 (348.3)
Anesthetics and analgesics:		
Midazolam (mg)	3.0 (3.0,3.5)	3.0 (3.0, 3.5)
Cisatracurium besylate (mg)	27.0 (23.0, 31.0)	27.0 (24.0, 31.5)
Remifentanil (µg)	880.0 (640.0, 1040.0)	820.0 (660.0, 1000.0)
Propofol (mg)	940.0 (790.0, 1110.0)	770.0 (610.0, 920.0)
Intraoperative sufentanil dosage (µg)	51.9 (10.8)	75.6 (15.4)
Intraoperative esketamine dosage (mg)	30.3 (8.9)	-
Cumulative sufentanil administration (µg)	114.8 (17.8)	203.0 (33.4)
Cumulative esketamine administration (mg)	93.2 (17.5)	-

Data are means (SD) or numbers (%) or median (IQR).

Outcome Measures:

The incidence of PONV in the two groups of patients

Endpoint	Number (%)		Risk difference (95% CI)
	Intervention	Control	
	(n=43)	(n=41)	

Primary endpoint

The incidence of PONV within 0-48 hours	5 (12)	13 (32)	0.28 (0.09 to 0.89)
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Secondary endpoint

The incidence of PONV within 0-1 hours	1 (2)	1 (2)	0.95 (0.06 to 15.75)
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The incidence of PONV within 1-24 hours	5 (12)	12 (29)	0.32 (0.10 to 1.00)
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The incidence of PONV within 24-48 hours	2 (5)	3 (7)	0.62 (0.10 to 3.90)
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Intervention: esketamine-based opioid-sparing anesthesia; Control: standard opioid anesthesia

Adverse Events:

Complications occurred in both groups of patients 48 hours after the operation

Adverse Events	Number (%)		Risk difference (95% CI)
	Intervention	Control	
	(n=43)	(n=41)	
Dizzy	3 (7)	14 (34)	0.15 (0.04 to 0.55)
Headache	0 (0)	0 (0)	-
Diplopia	0 (0)	1 (2)	0.98 (0.93 to 1.02)
Hallucinations	0 (0)	0 (0)	-
Nightmares	0 (0)	0 (0)	-

Intervention: esketamine-based opioid-sparing anesthesia; Control: standard opioid anesthesia