

Table 1. Main characteristics of included studies.

Authors (years)	Country	Type of study	Type of surgery	Number of patients	Intervention characteristics		Inclusion indicators
					HFNO	FMV	
Yasser 2021	Egypt	RCT	GA in caesarean section	100	30-50L/min n=50	6L/min n=50	①③
Lodenus 2018	Sweden	RCT	Emergency surgery	79	40-70L/min n=40	10L/min n=39	④⑤⑥
Mir F 2017	British	RCT	Emergency surgery	40	30-70L/min n=20	12L/min n=20	①⑤⑥
Hua Z 2020	China	RCT	GA in elderly	58	30-70L/min n=30	10L/min n=28	①③⑥
Ng I 2018	Australia	RCT	GA in neurosurgical patients	48	30-50L/min n=24	10L/min n=24	①⑤⑥
Hanouz 2019	France	RCT	Physiological study	50	60L/min n=50	12L/min n=50	②
Wong 2019	Canada	RCT	GA in morbidly obese patients	40	40-60L/min n=20	15L/min n=20	③④⑥
Heinrich 2014	Germany	RCT	GA in morbidly obese patients	22	50L/min n=11	12L/min n=11	①
Sjöblom 2021	Sweden	RCT	Emergency surgery	349	30-70L/min n=174	10L/min n=175	②④⑤ ⑥
Shippam 2019	British	RCT	Physiological study	37	30-70L/min n=17	15L/min n=20	②
Rosén 2021	Sweden	RCT	GA in obese patients	38	70L/min n=20	8L/min n=18	①②⑥
Tremey B 2020	France	RCT	GA	61	30-60L/min n=30	10L/min n=31	⑤⑥
Lyons C 2021	Ireland	RCT	GA	51	50L/min n=25	15L/min n=26	①③
Zhou S 2020	China	RCT	GA in caesarean section	34	50L/min n=17	10L/min n=17	①②⑥

RCT=randomized controlled trail, GA=general anesthesia, HFNO=high flow nasal oxygen, FMV=face mask ventilation. ①PaO<sub>2</sub>, ②EtO<sub>2</sub>, ③Safe apnoea time, ④Minimum O<sub>2</sub> saturation, ⑤O<sub>2</sub> desaturation, ⑥EtCO<sub>2</sub> or PaCO<sub>2</sub>.