

**Table 1.** Sedation levels

	Without remifentanil		With remifentanil	
	Propofol (mg kg <sup>-1</sup> h <sup>-1</sup> )	Sevoflurane (EtSevo %)	Propofol (mg kg <sup>-1</sup> h <sup>-1</sup> )	Sevoflurane (EtSevo %)
<b>Sedation</b>	6 (6 to 6)	1.1 (1 to 1.2)	5 (5 to 6)	1.1 (1.1 to 1.5)
<b>Anaesthesia</b>	12 (12 to 12)	2.7 (2.4 to 2.9)	11 (11 to 11)	2.2 (2 to 2.3)

Data are expressed as median (IQR).

**Table 2.** Coefficient of variation of the tidal volume during propofol or sevoflurane administration without and with remifentanil

	Without remifentanil				With remifentanil			
	CV <sub>Vt</sub> %		CV <sub>Vt</sub> %		CV <sub>Vt</sub> %		CV <sub>Vt</sub> %	
	Sedation	p	Anaesthesia	p	Sedation	p	Anaesthesia	p
<b>Propofol</b>	34 (26 to 35)		27 (19 to 29)		25 (16 to 26)		20 (17 to 25)	
		0.028		0.015		0.051		0.086
<b>Sevoflurane</b>	13 (7 to 27)		11 (10 to 20)		29 (18 to 35)		16 (11 to 18)	

Data are expressed as median (IQR). CV<sub>Vt</sub>%, coefficient of variation of the tidal volume expressed as percentage.

**Table 3.** Apnoea in the 5-minute recording period

	Without remifentanil				With remifentanil			
	Apnoea per 5 min				Apnoea per 5 min			
	Sedation	<i>P</i>	Anaesthesia	<i>P</i>	Sedation	<i>P</i>	Anaesthesia	<i>P</i>
<b>Propofol</b>	1 (0 to 2)		1 (0 to 2)		1 (0 to 3)		1 (0 to 2)	
		0.04		0.03		0.03		0.12
<b>Sevoflurane</b>	0 (0 to 0)		0 (0 to 0)		0 (0 to 0)		0 (0 to 0)	

Data are expressed as median (IQR).

**Table 4.** Neuromechanical efficiency (NME, cmH<sub>2</sub>O μV<sup>-1</sup>) at first occluded breath

	Without remifentanil				With remifentanil			
	NME				NME			
	Sedation	<i>P</i>	Anaesthesia	<i>P</i>	Sedation	<i>P</i>	Anaesthesia	<i>P</i>
<b>Propofol</b>	1.63 (1.05 to 2.25)		1.16 (1.06 to 1.58)		1.45 (1.19 to 1.80)		1.43 (1.23 to 1.54)	
		0.4240		0.0120		0.0050		0.0005
<b>Sevoflurane</b>	1.66 (1.35 to 1.86)		1.83 (1.48 to 2.59)		2.78 (1.83 to 3.50)		2.19 (2.10 to 2.43)	

Data are expressed as median (IQR).

**Figure 1.** Coal filter prototype designed by Maquet Critical Care

