

Supplement table S1 Comparison of LMS With or Without Laser Effects on ABG Measurements at Three Points in NMB and NB Groups

Table 3		NMB group(n=21)				NB group(n=22)				
	Laser(n=4)		No Laser(n=17)		p-value	Laser(n=8)		No Laser(n=14)		p-value
Pre-LMS										
pH	7.34700	.013904	7.34894	.047522	.964	7.37163	.036893	7.34221	.035540	.041
PaCO2	52.450	1.4754	51.659	8.2705	.964	49.625	7.2324	53.793	7.7643	.219
PaO2	197.700	135.9648	376.871	126.5581	.028	397.600	209.0842	260.379	189.0440	.101
SO2	98.475	1.6879	99.882	.0529	.006	99.200	1.9799	98.214	3.3017	.277
HCO3-	29.000	.4320	28.435	2.4413	.394	28.188	1.7382	29.500	2.3894	.306
During-LMS										
pH	7.13725	.039710	7.14518	.074943	.502	7.33025	.029789	7.32443	.039156	.864
PaCO2	96.075	12.6616	97.835	27.3179	.823	52.913	5.6696	55.829	10.1698	.682
PaO2	115.900	38.0843	295.718	123.9593	.011	405.788	61.7997	328.607	161.3580	.539
SO2	95.225	3.5368	99.076	2.2972	.007	99.900	0.0000	99.550	.6394	.104
HCO3-	32.650	1.4549	33.059	3.6153	.788	28.063	1.7443	29.064	2.7151	.585
In PACU										
pH	7.35250	.022472	7.36871	.033369	.370	7.38813	.024038	7.38171	.035495	.633
PaCO2	48.650	3.3601	46.659	6.1189	.395	43.825	4.7355	45.679	5.4436	.562
PaO2	95.425	10.7494	111.224	41.4666	.395	137.600	87.1903	129.207	63.2252	.946
SO2	96.875	.8732	97.618	1.3035	.302	98.200	1.5866	98.043	1.3614	.632
HCO3-	27.325	2.3343	27.006	2.3517	.720	26.638	2.0445	27.279	2.2659	.609

ABG, Arterial blood gas; LMS, laryngeal microsurgery; PACU, postanesthesia care unit; ITGA, Intubation general anesthesia; NMB, Non-intubated general anesthesia and neuromuscular blocking; NB, superior laryngeal nerve block; PaCO2, partial pressure of arterial carbon dioxide; PaO2, partial pressure of arterial oxygen; SaO2, arterial oxygen saturation; SD, standard deviation. Data are presented as the mean (SD)

Supplement table S2 Comparison of LMS With or Without Laser Effects on Vital Sign Measurements at Three Points in NMB and NB Groups

Table 4		NMB group(n=21)				NB group(n=22)				
	Laser(n=4)		No Laser(n=17)		p-value	Laser(n=8)		No Laser(n=14)		p-value
Pre-LMS										
HR	70.81	7.799	66.97	8.721	.112	67.91	7.434	68.54	13.723	.699
NBPs	146.44	21.150	136.95	20.033	.065	143.17	30.034	137.02	23.998	.364
NBPd	82.19	8.803	78.47	11.225	.284	82.37	21.464	80.51	12.257	.888
SpO2	96.06	4.919	96.80	2.120	.774	96.65	2.102	96.05	2.594	.339
MAP_LMS	103.613	11.6633	97.966	13.2995	.064	102.634	24.0143	99.346	15.4209	.731
During-LMS										
HR	98.38	13.917	92.12	19.327	.158	84.02	14.927	81.22	18.815	.171
NBPs	153.58	25.317	139.63	28.507	.021	113.90	24.527	125.38	24.337	.004
NBPd	82.08	14.908	77.94	17.335	.205	67.10	15.159	78.30	15.407	.000
SpO2	91.92	12.680	96.94	3.256	.002	96.89	4.013	97.77	2.116	.797
MAP_LMS	105.915	17.3203	98.501	19.9619	.072	82.705	18.1088	93.993	17.9386	.000
In PACU										
HR	76.00	40.398	82.00	12.374	.858	89.00	10.000	82.14	16.066	.356
NBPs	149.75	15.370	124.06	18.630	.018	129.63	20.220	122.79	13.662	.758
NBPd	89.00	11.015	79.76	12.503	.300	79.50	16.682	79.93	8.444	.837
SpO2	98.00	2.160	98.35	1.412	.855	98.13	1.727	97.93	2.235	.972
MAP_LMS	109.275	12.3040	94.524	13.7503	.066	96.200	17.4062	94.207	9.3939	.811

LMS, laryngeal microsurgery; PACU, postanesthesia care unit; HR, heart rate; BPs, systolic blood pressure; BPD, diastolic blood pressure; MAP, mean arterial blood pressure; ITGA, Intubation general anesthesia; NB, superior laryngeal nerve block; SD, standard deviation; PaCO₂, partial pressure of arterial carbon dioxide; PaO₂, partial pressure of arterial oxygen; SpO₂, arterial oxygen saturation. Data are presented as the mean (SD)