

	<i>BabylogVN500 vs 3100A</i>	<i>Fabian ped-mode vs 3100A</i>	<i>Fabian ped-mode vs BabylogVN500</i>	<i>HummingX vs 3100A</i>	<i>HummingX vs BabylogVN500</i>	<i>HummingX vs Fabian ped-mode</i>	<i>SERVO-n proto vs 3100A</i>	<i>SERVO-n proto vs BabylogVN500</i>	<i>SERVO-n proto vs Fabian ped-mode</i>	<i>SLE6000 vs 3100A</i>	<i>SLE6000 vs Fabian ped-mode</i>	<i>SLE6000 vs HummingX</i>	<i>SLE6000 vs SERVO-n proto</i>	<i>Stephanie vs 3100A</i>
<b>Premature (1kg)</b>														
Pathologic														
Fr:10Hz			†											*
Fr:15Hz		*				*				*				*
Physiologic														
Fr:10Hz		*												*
Fr:15Hz		*				*				*				*
<b>Term (3.5kg)</b>														
Pathologic														
Fr:8Hz						†			†	*	*	*	*	†
Fr:12Hz										*	*			
Physiologic														
Fr:8Hz		*							†	*	†	*	*	†
Fr:12Hz		*				*			*	*	*	*	*	*
<b>Infant (10kg)</b>														
Pathologic														
Fr:5Hz	*		*			*		*	*	*			†	†
Fr:9Hz			*								†			*
Physiologic														
Fr:5Hz	*		*					*	†	*			*	
Fr:9Hz			*							*				
<b>Child (25kg)</b>														
Pathologic														
Fr:5Hz			*		*				†	*	*		*	*
Physiologic														
Fr:5Hz	*		*				†	†	†	*			*	*

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	<i>Stephanie vs Fabian ped-mode</i>	<i>Stephanie vs HummingX</i>	<i>Stephanie vs SERVO-n proto</i>	<i>Stephanie vs SLE6000</i>	<i>BabylogVN500 vs 3100A</i>	<i>Fabian neo-mode vs 3100A</i>	<i>Fabian neo-mode vs BabylogVN500</i>	<i>HummingX vs BabylogVN500</i>	<i>HummingX vs Fabian neo-mode</i>	<i>SERVO-n proto vs BabylogVN500</i>	<i>SERVO-n proto vs Fabian neo-mode</i>	<i>SLE6000 vs BabylogVN500</i>	<i>SLE6000 vs Fabian neo-mode</i>	<i>Stephanie vs BabylogVN500</i>	<i>Stephanie vs Fabian neo-mode</i>
<b>Premature (1kg)</b>															
Pathologic															
Fr:10Hz	*	*	*	†		*			*					*	*
Fr:15Hz		*		*	*	*		†		†	*	†	*		
Physiologic															
Fr:10Hz				*											
Fr:15Hz												*			*
<b>Term (3.5kg)</b>															
Pathologic															
Fr:8Hz	†	*	†	*			†	†		†	†	†	*	†	†
Fr:12Hz			†		*			†							†
Physiologic															
Fr:8Hz		†	†	*	*	*	*	*	†	†	†	†	†	†	†
Fr:12Hz	*	*	*		*			*		*		*		*	*
<b>Infant (10kg)</b>															
Pathologic															
Fr:5Hz	†	†	†	†											
Fr:9Hz		†		*											
Physiologic															
Fr:5Hz	†	†	†	†											
Fr:9Hz		†		†											
<b>Child (25kg)</b>															
Pathologic															
Fr:5Hz	*		*												
Physiologic															
Fr:5Hz	†		*	†											

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**Table 2.** Comparison of the PTP values between the 7 ventilators under the same condition (Tukey's post hoc analysis). It's a pairwise comparison between ventilator 1 vs ventilator 2 : † represents  $p < 0.05$  in favor of ventilator 1, \* represents  $p < 0.05$  in favor of ventilator 2.

	3100A	BabylogVN500	Fabian neo-mode	Fabian ped-mode	HummingX	SERVO-n proto	SLE6000	Stephanie
<b>Premature(1kg)</b>								
<b>Pathologic</b>								
Fr :10 Hz	22%	17%			19%	38%	15%	41%
Fr:15Hz	62%	100%	83%		47%	70%	38%	74%
<b>Physiologic</b>								
Fr:10Hz	21%	17%	31%		20%	38%	13%	34%
Fr:15Hz	61%	*	80%		64%	100%	65%	62%
<b>Term(3.5kg)</b>								
<b>Pathologic</b>								
Fr:8Hz	27%	33%	33%		26%	39%	24%	44%
Fr:12Hz	62%	*	100%		57%	81%	52%	86%
<b>Physiologic</b>								
Fr:8Hz	28%	33%	33%		19%	36%	20%	43%
Fr:12Hz	73%	*	100%		48%	79%	51%	81%
<b>Infant(10kg)</b>								
<b>Pathologic</b>								
Fr:5Hz	35%			45%	46%	80%	25%	63%
Fr:9Hz	91%			*	78%	*	85%	100%
<b>Physiologic</b>								
Fr:5Hz	39%			45%	46%	52%	29%	60%
Fr:9Hz	94%			*	74%	*	81%	76%
<b>Child(25kg)</b>								
<b>Pathologic</b>								
Fr:5Hz	63%			53%	63%	77%	49%	100%
Fr:8Hz	*			*	*	*	*	*
<b>Physiologic</b>								
Fr:5Hz	49%			50%	61%	100%	49%	100%
Fr:8Hz	*			*	*	*	*	*

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**Table 3.** Power of the seven tested ventilators under 16 conditions, corresponding to the oscillator amplitude pressure ( $\Delta P$ ), set to obtain a target tidal volume ( $V_{t_{HFO}}$ ) of 1.5 mL/kg and expressed as a percentage of the maximum amplitude for each condition. A low %value of amplitude indicates low power reserve of a machine.