

Supplementary Table 4: Effects of Different PEEP Settings on Hemodynamic Parameters in Hyperacute CS

	PEEP, cmH ₂ O				
	5	8	10	13	15
CARDIAC ENERGETICS					
PVA, mmHg x mL	7,531 ± 2,882	7,209 ± 2,947	6,670 ± 2,478‡	6,428 ± 2,720‡	5,933 ± 2,036‡
MPE, mmHg x L/min	432 ± 148	400 ± 125	393 ± 128†	363 ± 134‡	377 ± 140‡
SW, mmHg x mL	3,224 ± 1,986	3,361 ± 2,176	2,984 ± 1,772*	3,187 ± 1,895†	2,634 ± 1,391‡
PE, mmHg x mL	4,307 ± 1,660	3,848 ± 1,381	3,686 ± 1,444‡	3,240 ± 1,193‡	3,300 ± 1,318‡
CE, mmHg x mL	41 ± 13	44 ± 14	43 ± 14*	47 ± 12*	44 ± 14*
CARDIAC FUNCTION					
CO, L/min	2.67 ± 1.28	2.67 ± 1.17	2.69 ± 1.20	2.81 ± 0.98	2.77 ± 1.06
SV, mL	47 ± 26	50 ± 29	46 ± 25	51 ± 24	45 ± 20*
HR, min⁻¹	59 ± 13	59 ± 14	61 ± 15	59 ± 15*	65 ± 17‡
Ees, mmHg/mL	0.85 ± 0.25	0.92 ± 0.28	0.89 ± 0.28	0.93 ± 0.33	0.92 ± 0.35*
dP/dt(max), mmHg/s	1,005 ± 254	1,010 ± 275	960 ± 234*	938 ± 276‡	885 ± 218‡
LVEF, %	32 ± 13	34 ± 13	34 ± 13*	38 ± 12*	35 ± 13*
Ea/Ees ratio	2.75 ± 1.61	2.36 ± 1.30	2.46 ± 1.64	1.93 ± 1.08	2.46 ± 1.91
AFTERLOAD PARAMETERS					
Ea, mmHg/mL	2.15 ± 1.14	2.02 ± 1.21	1.93 ± 0.99†	1.69 ± 1.04†	1.87 ± 1.12*
LVESP, mmHg	83 ± 20	82 ± 21	78 ± 17†	76 ± 22‡	74 ± 17‡
P_{max}, mmHg	85 ± 19	85 ± 20	82 ± 18*	79 ± 21‡	76 ± 17‡
LV Wall Stress, mmHg	187 ± 75	172 ± 74	164 ± 63‡	147 ± 67‡	148 ± 54‡
LVESV, mL	134 ± 35	123 ± 33	125 ± 35‡	114 ± 32‡	118 ± 33‡
PRELOAD PARAMETERS					
LVEDV, mL	183 ± 35	177 ± 39	176 ± 34†	170 ± 36‡	167 ± 30‡
LVEDP, mmHg	18 ± 6	19 ± 6	18 ± 6	20 ± 6	18 ± 7
SYSTEMIC AND PULMONARY PRESSURES					
MAP, mmHg	66 ± 13		62 ± 12*		59 ± 13‡
RAP	7 ± 3		8 ± 2*		9 ± 3‡
mPAP	21 ± 5		22 ± 5		22 ± 4
PCWP	13 ± 3		13 ± 4		13 ± 3*

Data are presented as mean ± SD and associated *P*-values are derived from a repeated measures mixed model with positive end-expiratory pressure (PEEP) as fixed effects and each pig at a given state as random effects. Abbreviations as in main article.

* *P*<0.05 vs. PEEP at 5 cmH₂O

† *P*<0.01 vs. PEEP at 5 cmH₂O

‡ *P*<0.001 vs. PEEP at 5 cmH₂O