

**Figure Legend**

Figure 1: Experimental model ( $P_{\text{SVC}}$ : pressure superior vena cava;  $P_{\text{IVC}}$ : pressure inferior vena cava;  $P_{\text{RA}}$ : pressure right atrium;  $P_{\text{LA}}$ : pressure left atrium;  $P_{\text{PA}}$ : pressure pulmonary artery).

Figure 2: Systemic venous pressure: increased and maintained at goal range (14-15 mmHg) in SVC (A) and IVC (B) distributions days 1 - 20. Adjusted measurement indicates adjustment required in vena caval restriction to maintain measured systemic venous pressure within goal parameters after the initial value at that time interval had been determined.

Figure 3: Cardiac index: significant reduction after intervention, with normalization by day 14. \* significant difference between experimental and control groups ( $P \leq 0.05$ ).

Figure 4: Blood volume. \* significant difference ( $P \leq 0.05$ ) from control. # significant difference ( $P \leq 0.05$ ) from baseline.

Figure 5: Serum aldosterone (A) and angiotensin II (B). \* significant difference ( $P \leq 0.05$ ) from control.

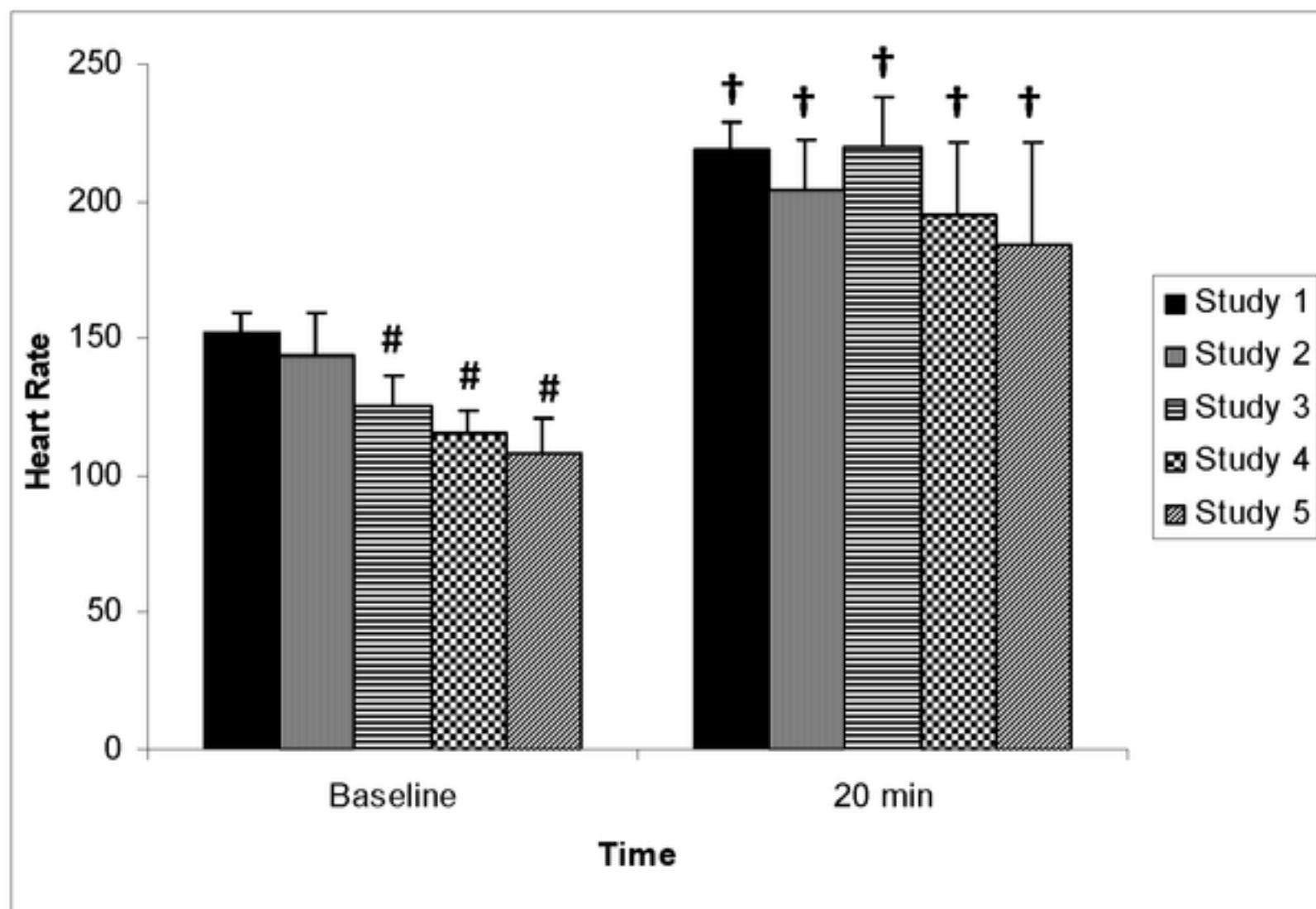
Figure E1: Heart rate in control (A) and experimental (B) groups, and cardiac index in control (C) and experimental (D) groups at baseline and after 20 minute dobutamine infusion. Study 1: one day prior to intervention; Study 2: 3 days postintervention; Study 3: 7 days postintervention; Study 4: 14 days postintervention; Study 5: 21 days postintervention. \*

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4 significant difference ( $P \leq 0.05$ ) from control. # significant difference ( $P \leq 0.05$ ) from  
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6 Study 1. † significant difference ( $P \leq 0.05$ ) from baseline.  
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11 Figure E2: Blood oxygen saturation in SVC in control (A) and experimental (B) animals and IVC  
12 in control (C) and experimental (D) animals at baseline after 20 minute dobutamine  
13 infusion. (E) represents near-infrared spectroscopy measurements in experimental  
14 animals (n=4) at baseline after 20 minute dobutamine infusion. Study 1: one day prior to  
15 intervention; Study 2: 3 days postintervention; Study 3: 7 days postintervention; Study 4:  
16 14 days postintervention; Study 5: 21 days postintervention. \* significant difference  
17 ( $P \leq 0.05$ ) from control. # significant difference ( $P \leq 0.05$ ) from study 1 values. †  
18 significant difference ( $P \leq 0.05$ ) from baseline.  
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31 Figure E3: Oxygen extraction in the SVC (A) and IVC (B) versus time. \* significant difference  
32 ( $P \leq 0.05$ ) from control. # significant difference ( $P \leq 0.05$ ) from baseline.  
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38 Figure E4: Correlation between cerebral near infrared spectroscopy measurements and SVC (A)  
39 and IVC (B) blood oxygen saturation in experimental animals (n=4).  $P < 0.001$ .  
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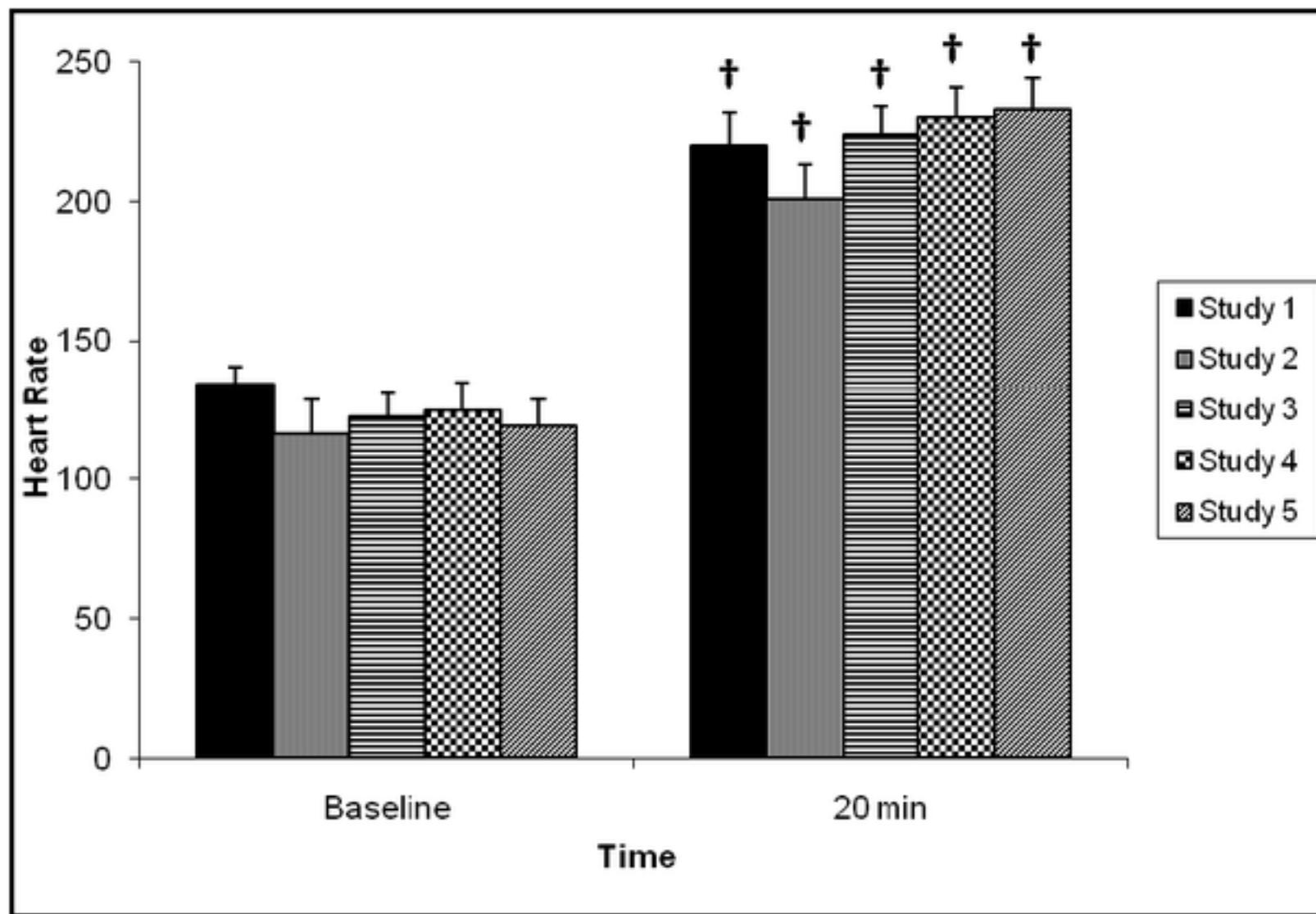


Figure E1C

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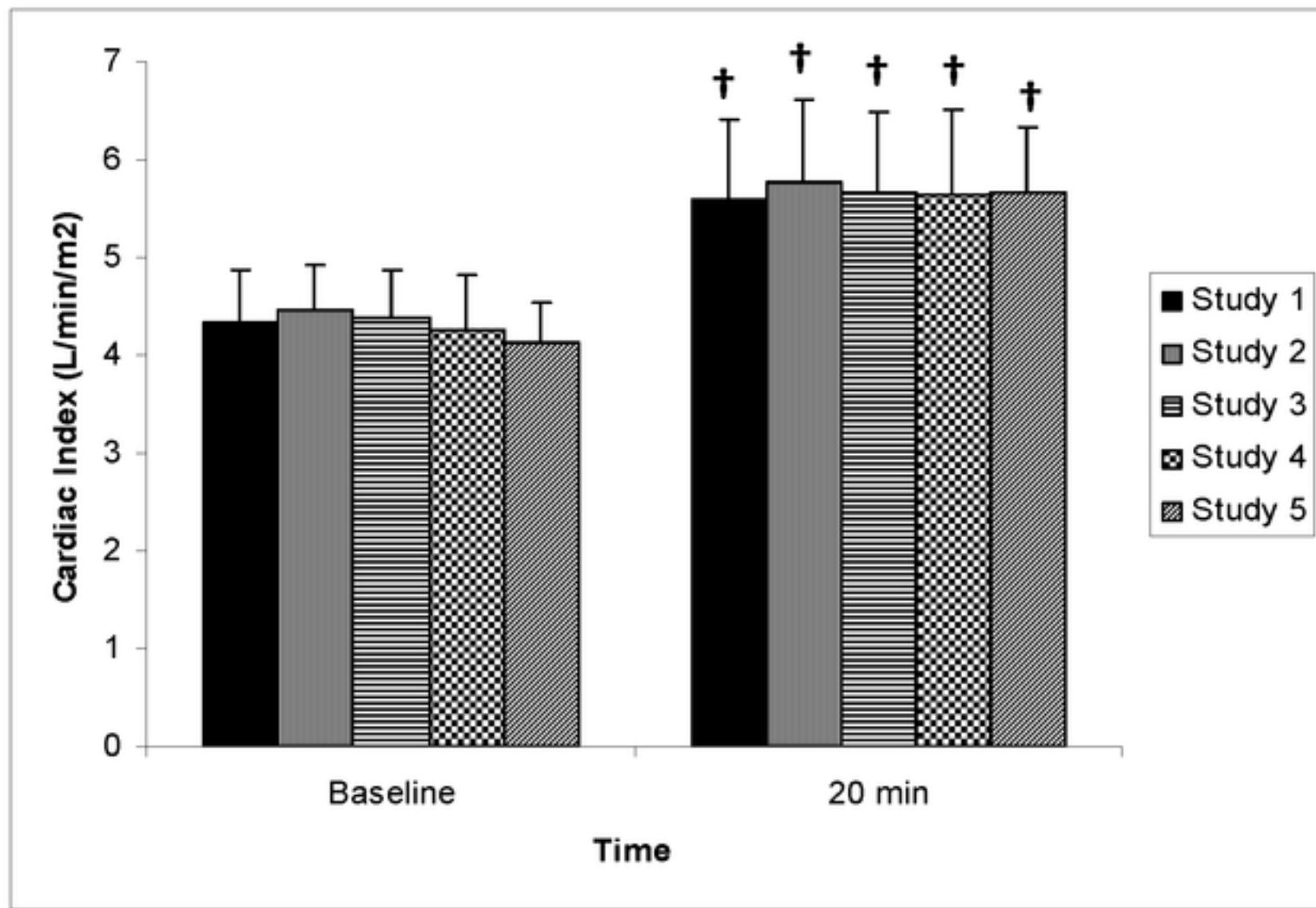


Figure E1D

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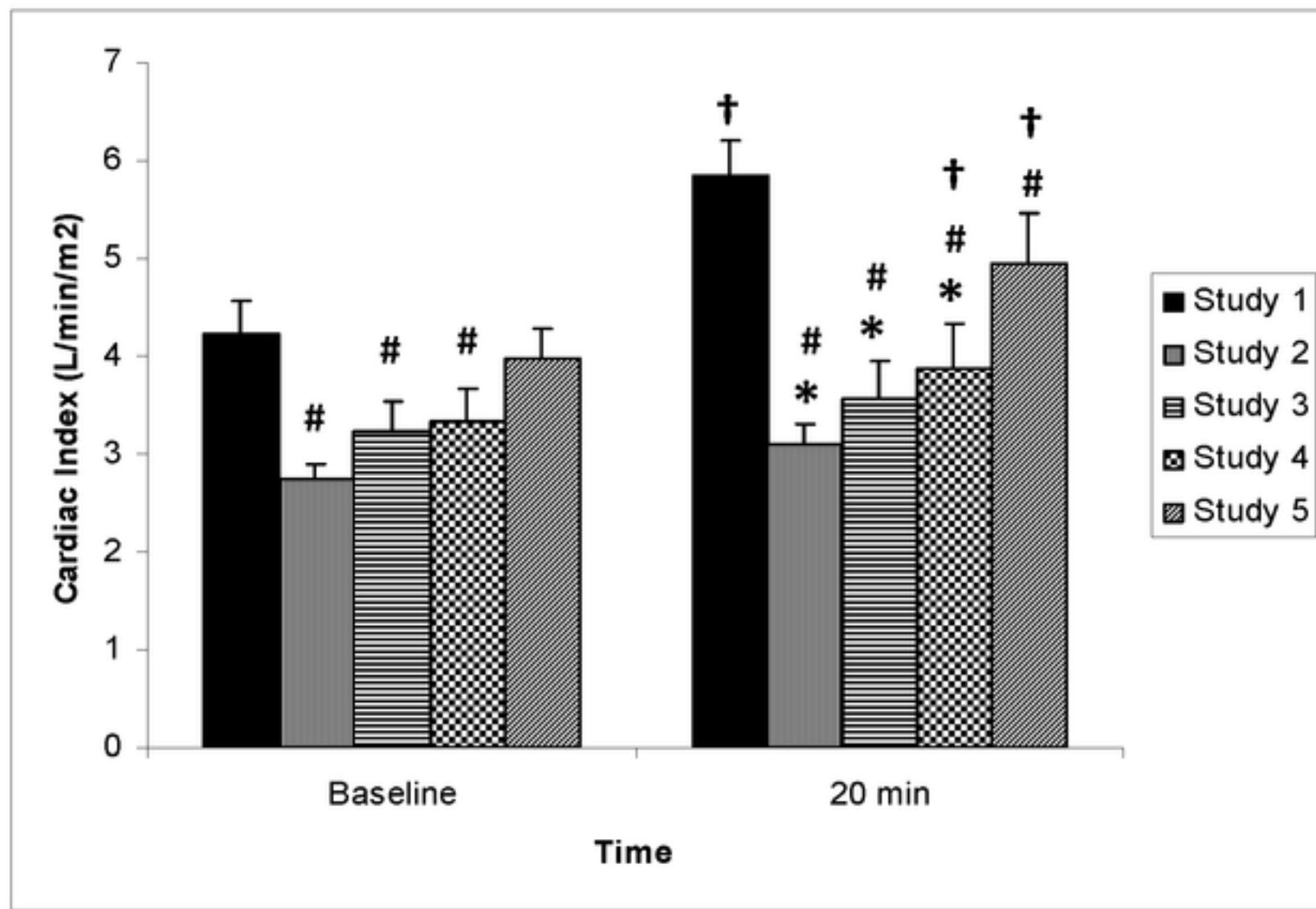


Figure E2A

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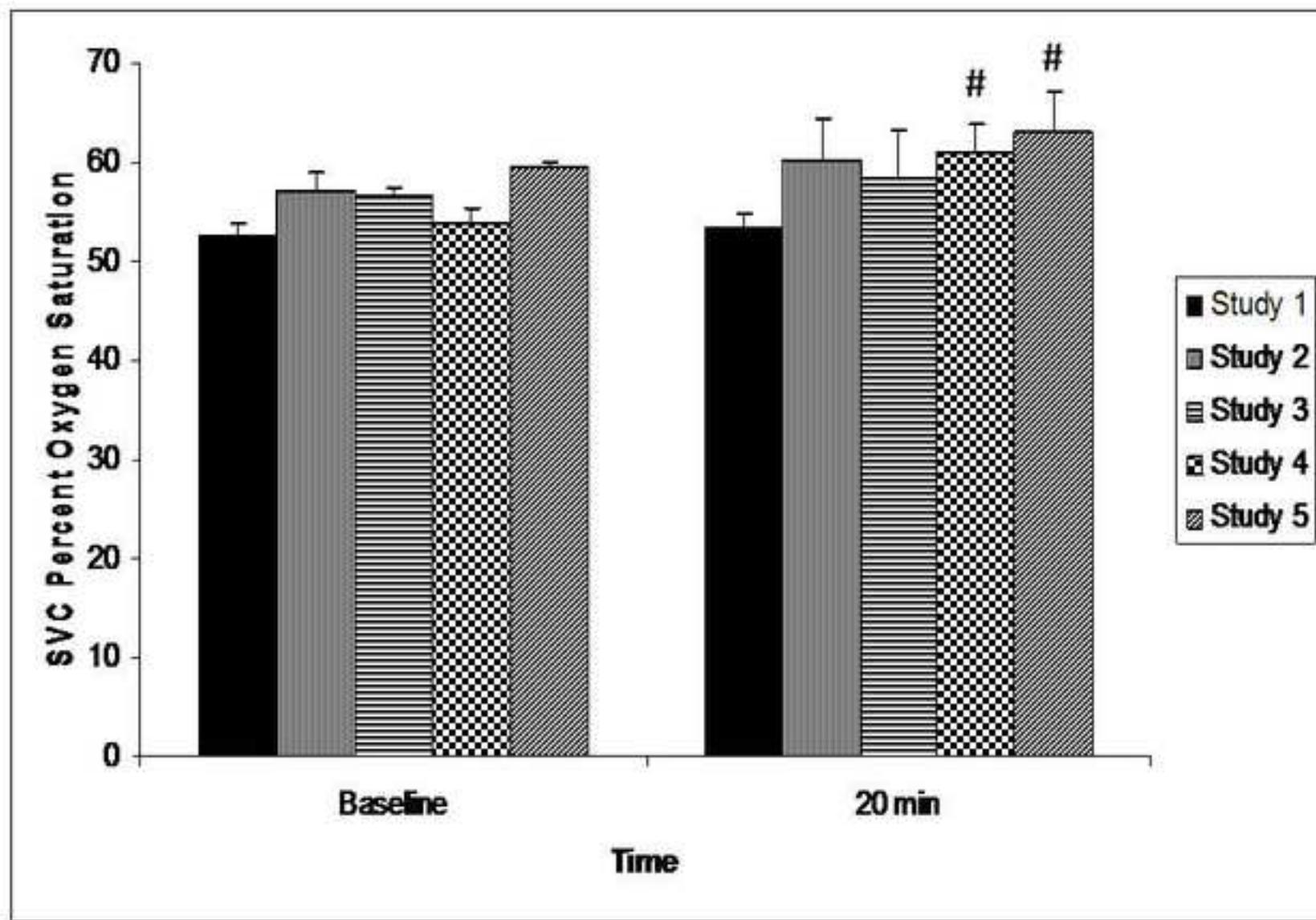
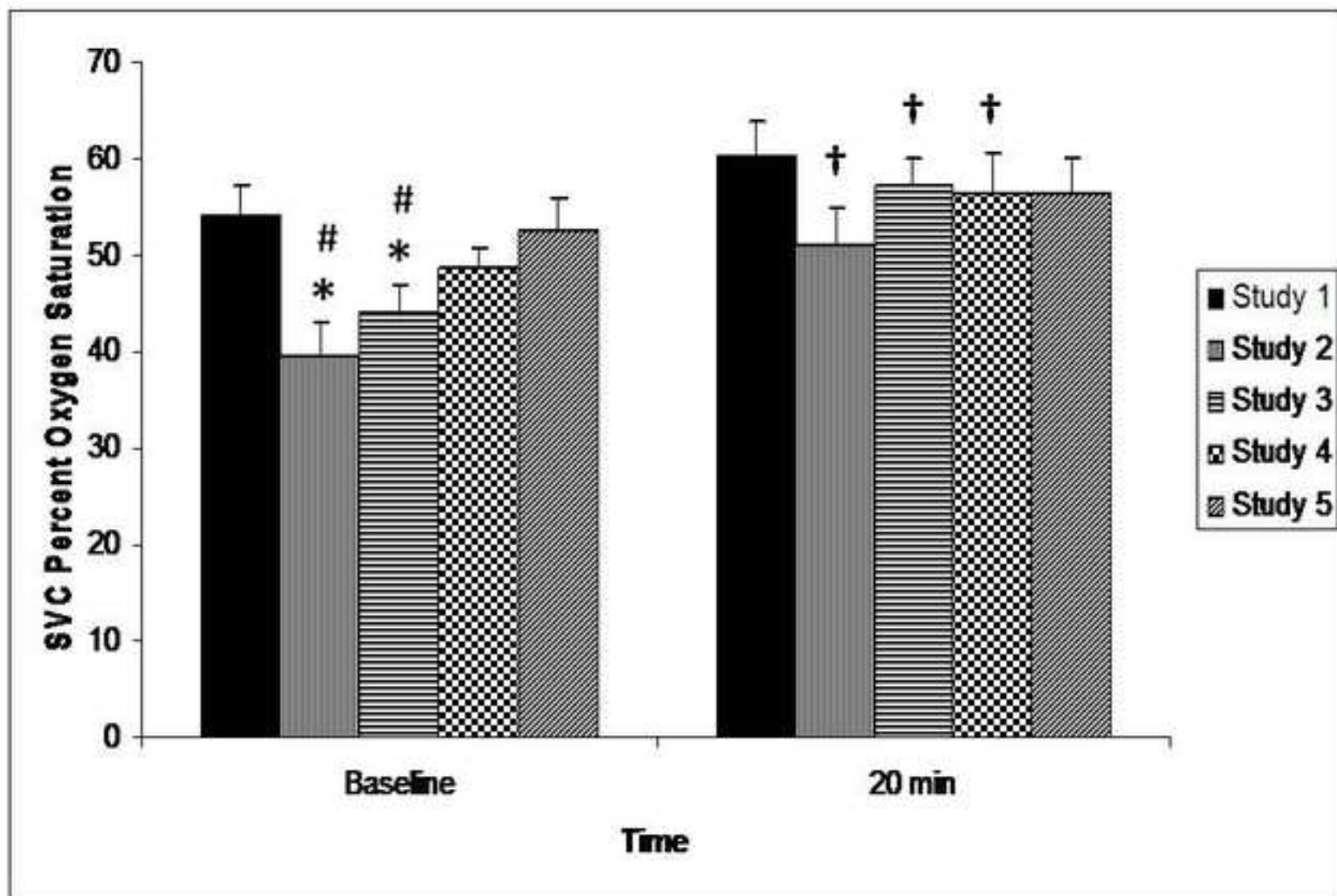
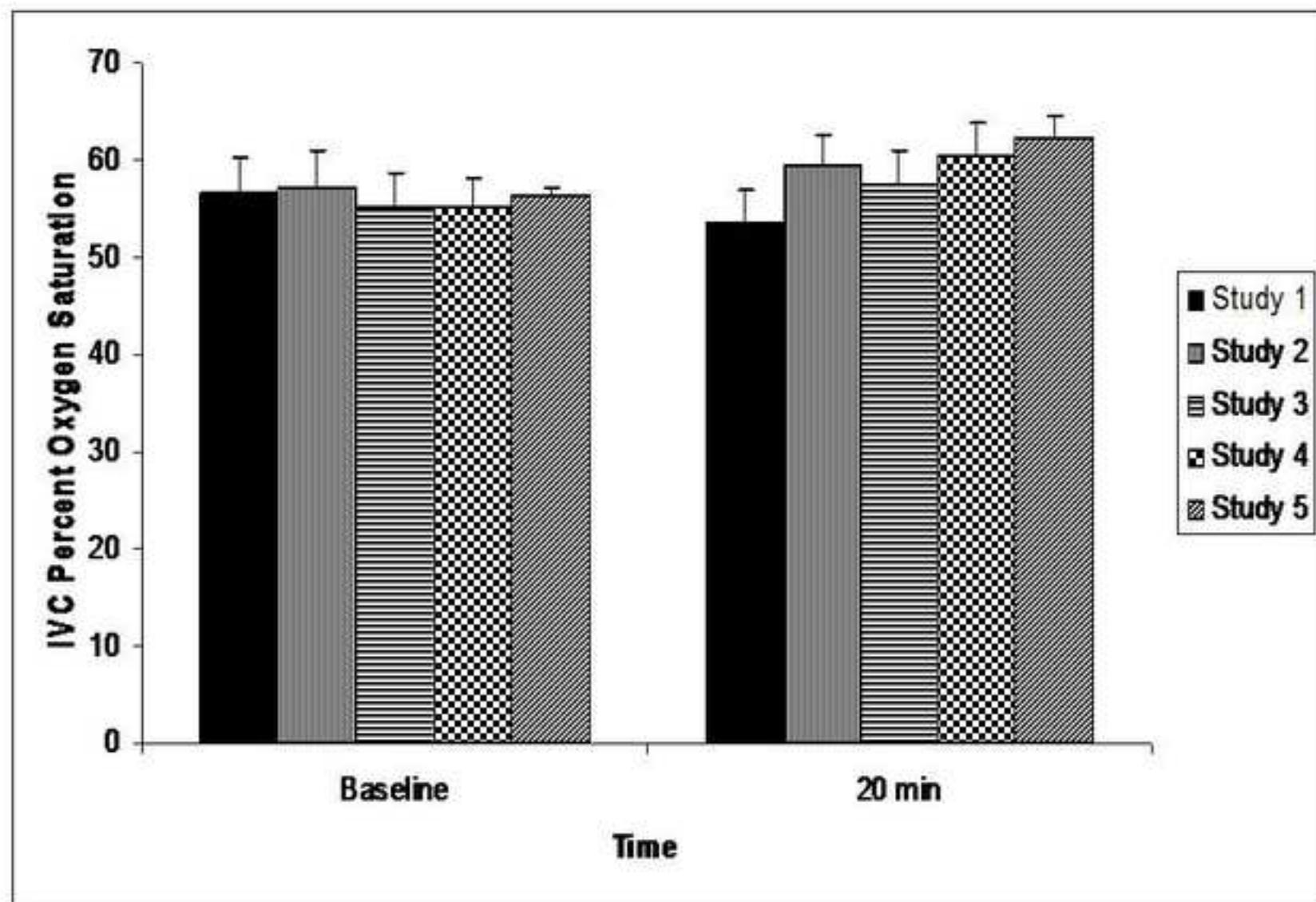
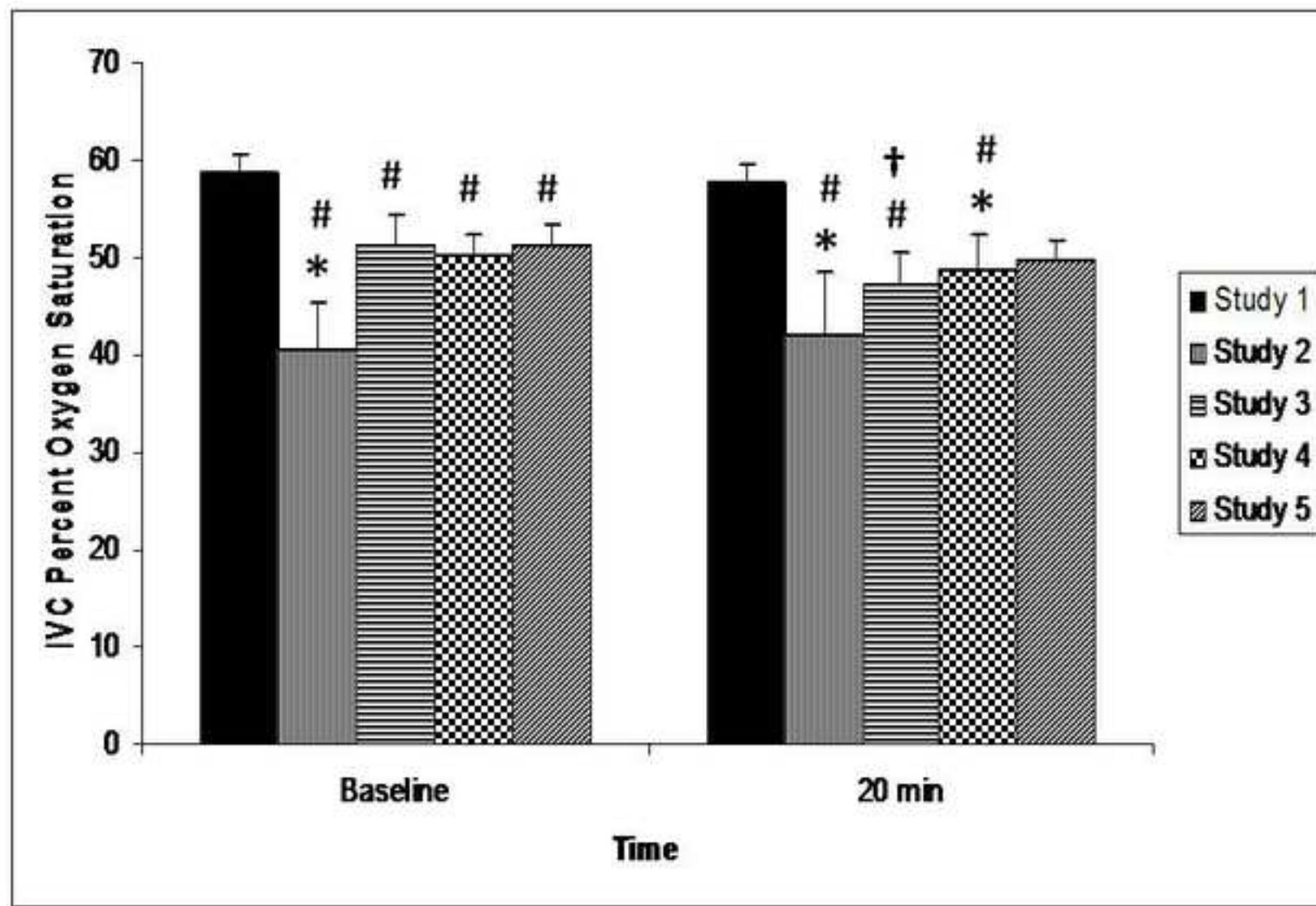


Figure E2B

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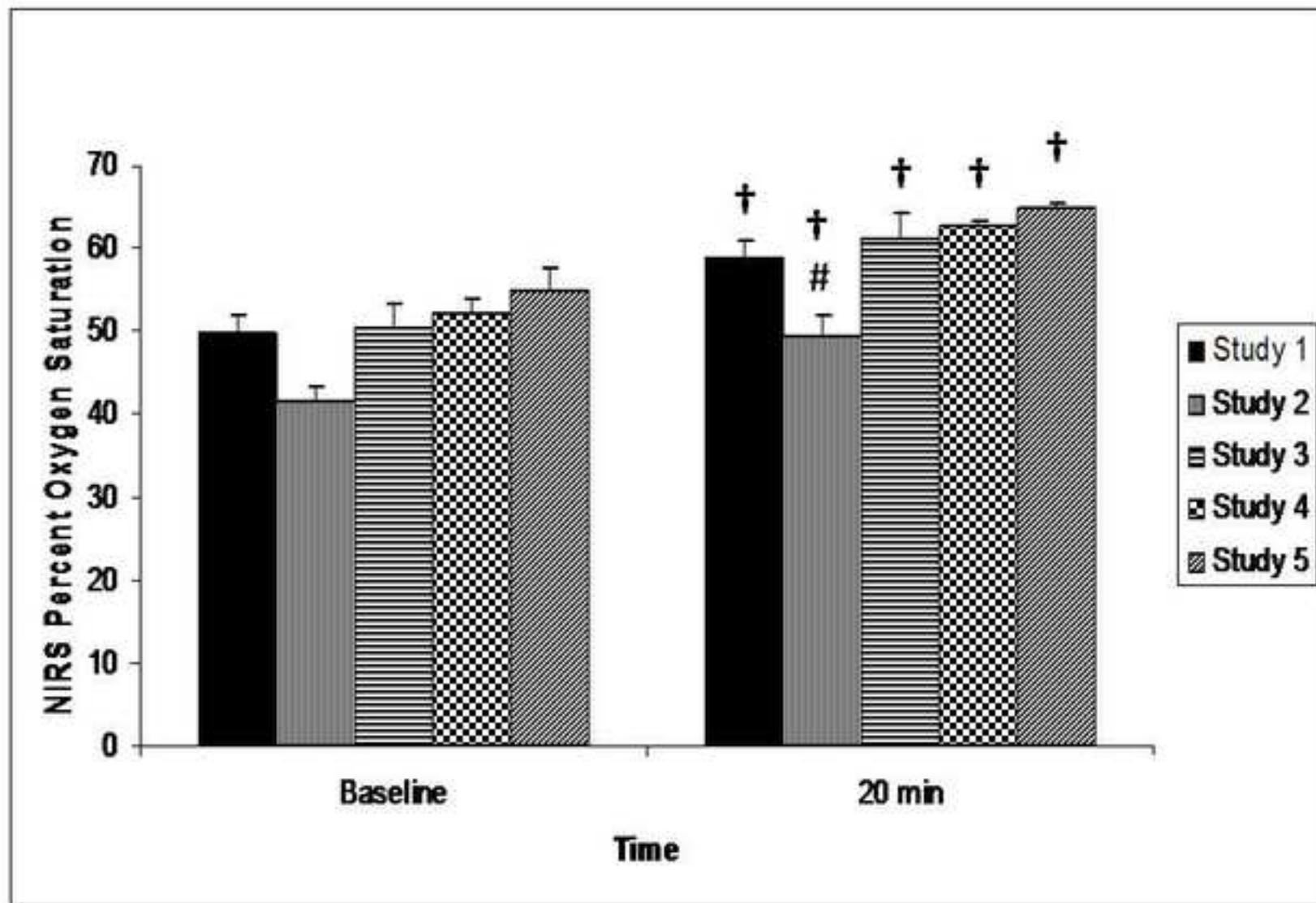


Figure E3A

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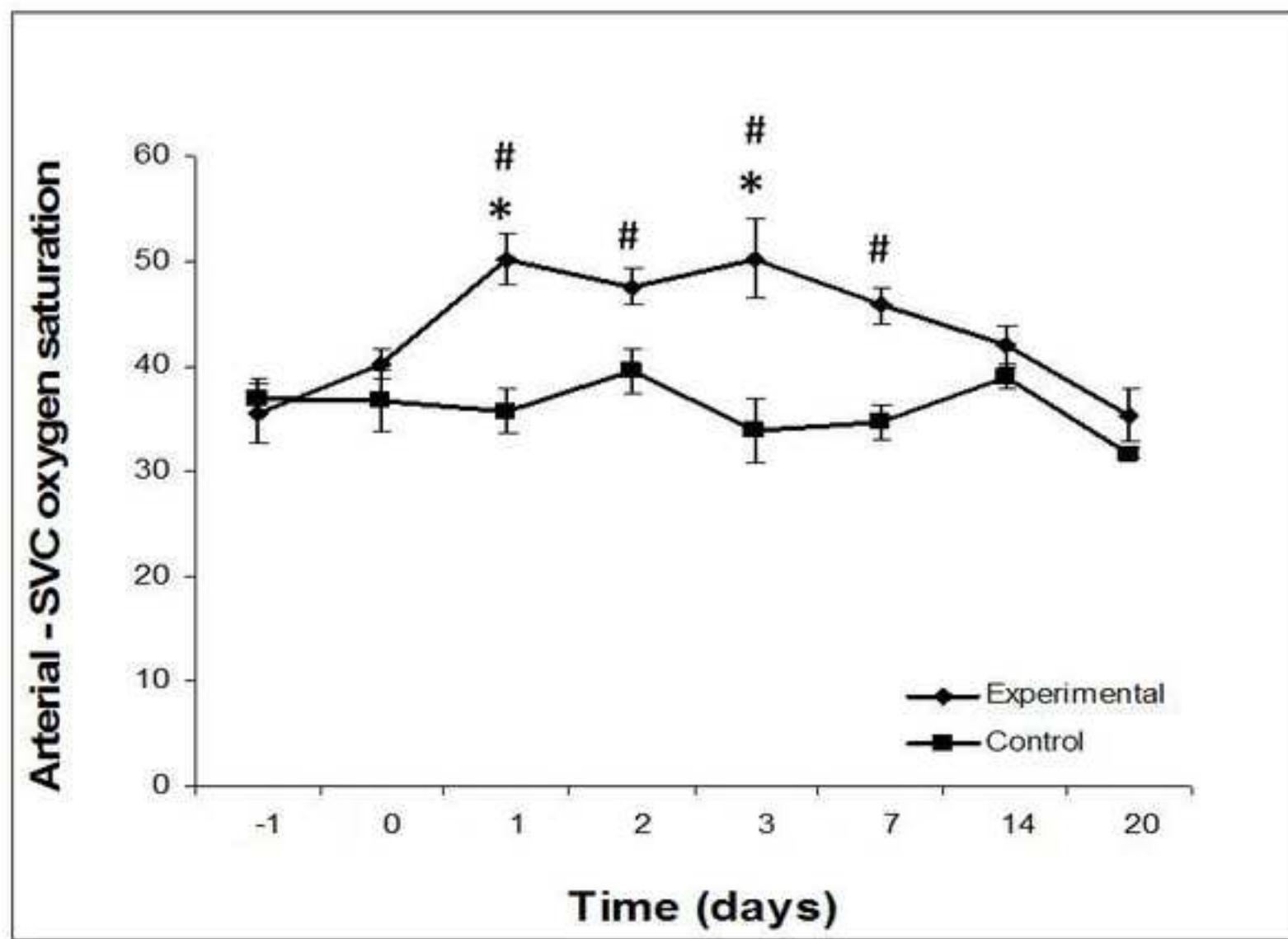


Figure E3B

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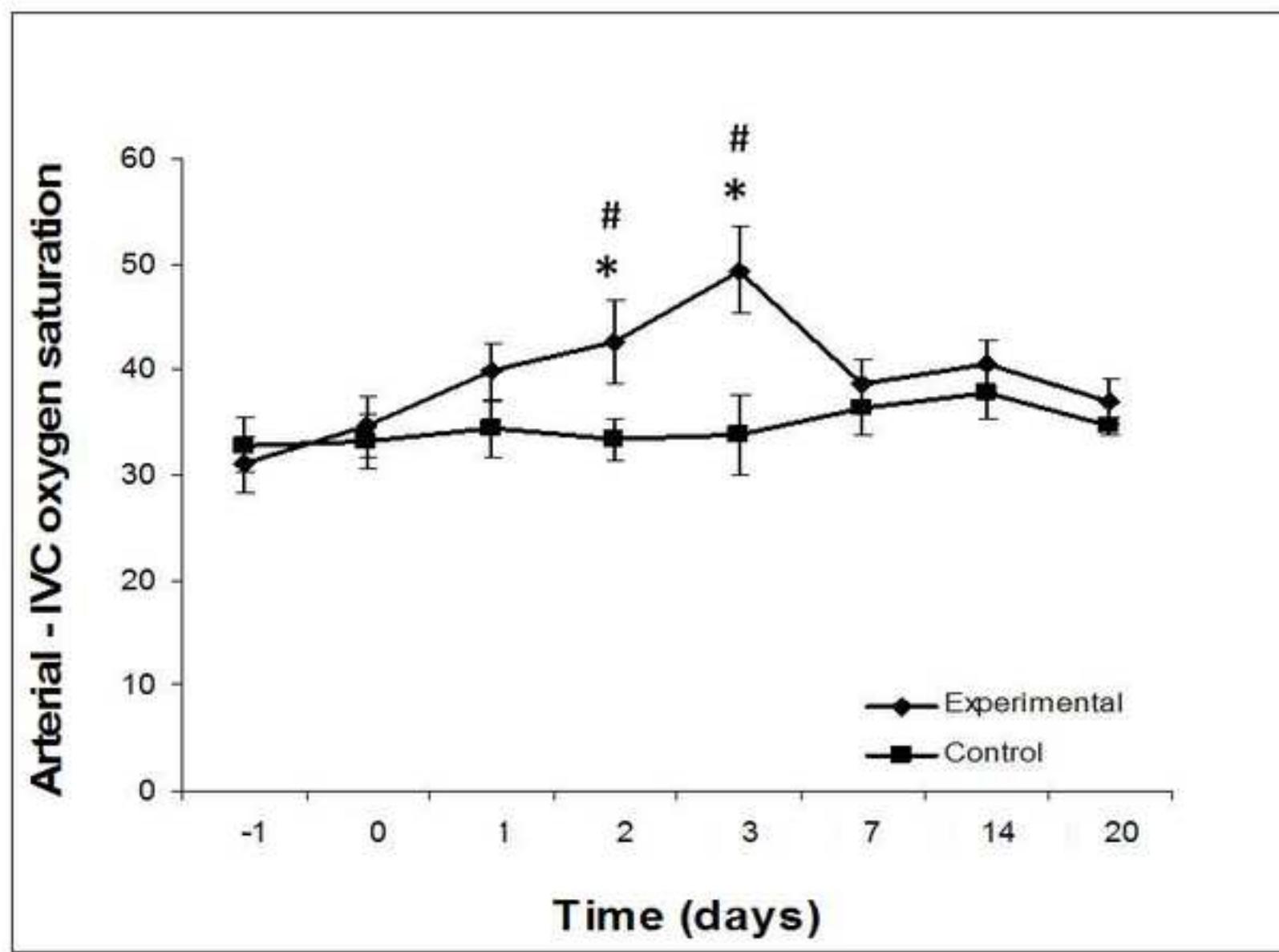


Figure E4A

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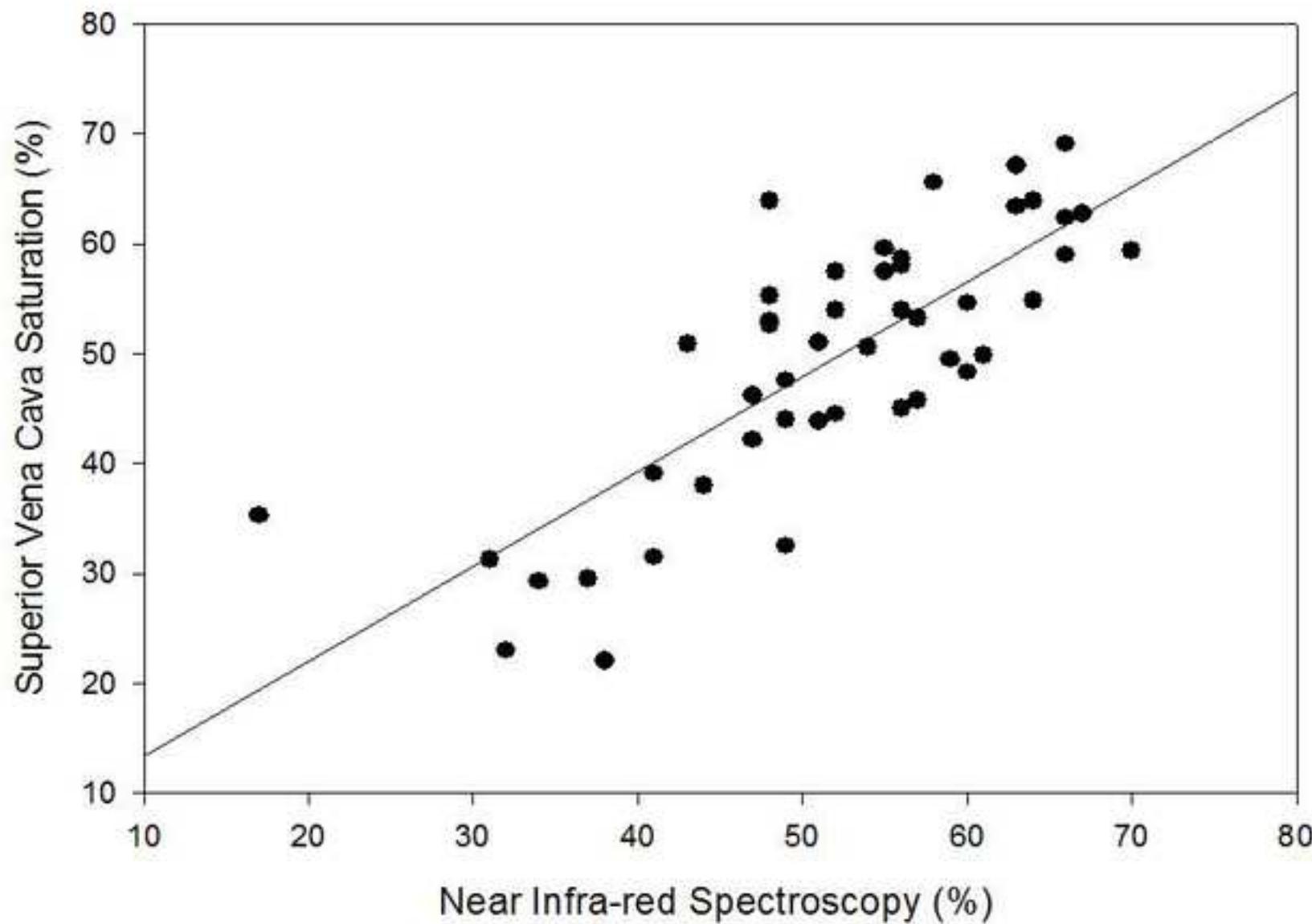


Figure E4B

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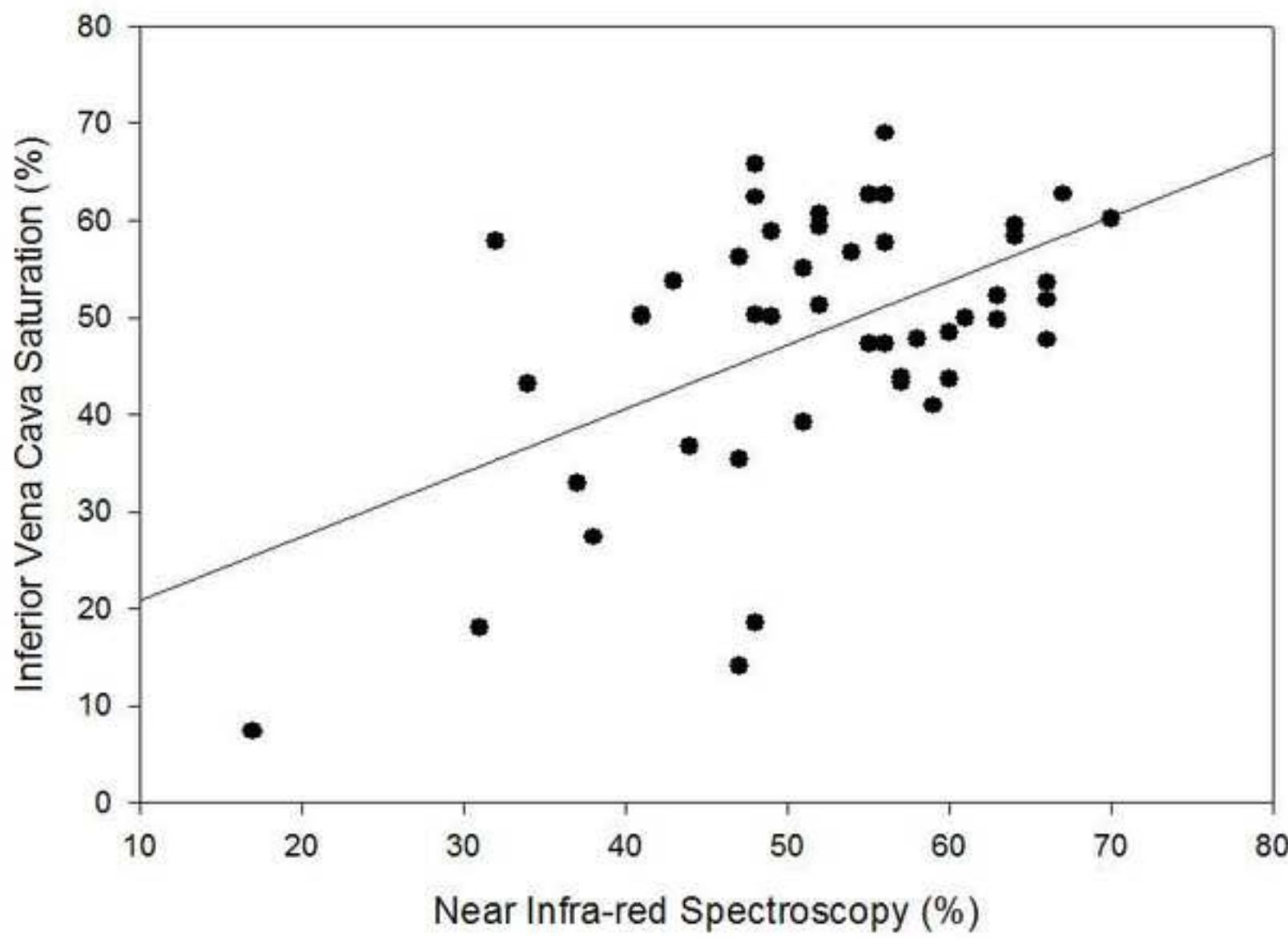


Table EI: Hemodynamic and Blood Gas Data

Parameter		Group	Baseline (Day 0 preintervention)		Day 1			Day 3		
	III		Value	II	Value	I	II	Value	I	II
Heart Rate	<b>0.048</b>	Control	151±11.6	<i>0.391</i>	145±18	<i>0.865</i>	<i>0.868</i>	138±39	<i>0.641</i>	<i>0.274</i>
Systolic Blood Pressure	0.869		139±8.6		148±31	<i>0.075</i>	<i>0.053</i>	122±31	<i>0.987</i>	<i>0.130</i>
Diastolic Blood Pressure	0.982	Experimental	98±5	<i>0.510</i>	103±3	<i>0.988</i>		100±7	<i>0.992</i>	
Superior Vena Cava Pressure	<i>&lt;0.001</i>		95±10		94±10	<i>0.996</i>		93±9	<i>0.996</i>	
Inferior Vena Cava Pressure	<i>&lt;0.001</i>	Control	76±6		79±4		NS	75±4		NS
Cardiac Index	<i>&lt;0.001</i>		76±7		73±12			70±9		
Mean Pulmonary Arterial Pressure	0.960	Control	5±2	<i>0.496</i>	4±2	<i>0.899</i>	<i>&lt;0.001</i>	5±2	<i>1.000</i>	<i>&lt;0.001</i>
Right Atrial Pressure	<i>0.169</i>		4±2		14±1	<i>&lt;0.001</i>	<i>&lt;0.001</i>	15±1	<i>&lt;0.001</i>	<i>&lt;0.001</i>
Left Atrial Pressure	<i>0.119</i>	Experimental	5±2	<i>0.339</i>	3±2	<i>0.199</i>	<i>&lt;0.001</i>	5±3	<i>0.999</i>	<i>&lt;0.001</i>
Pulmonary Vascular Resistance	<i>0.001</i>		4.2±0.9		4.5±0.9	<i>1.000</i>	<i>0.001</i>	4.4±1.1	<i>1.000</i>	<i>0.002</i>
Arterial Oxygen Saturation	0.255	Experimental	3.9±1.0	<i>0.547</i>	2.7±0.7	<i>&lt;0.001</i>	<i>0.001</i>	2.7±0.4	<i>&lt;0.001</i>	<i>0.002</i>
SVC Oxygen Saturation	<i>0.001</i>		17±2		16±1	<i>0.935</i>	<i>0.351</i>	17±1	<i>0.970</i>	
IVC Oxygen Saturation	<i>&lt;0.001</i>	Control	15±2	<i>0.156</i>	15±2	<i>0.999</i>		15±2	<i>0.995</i>	<i>0.139</i>
Plasma Volume	0.059		3±2		1.3±2.3			<i>2±2.6</i>		
		Control	<b>0.8±1.8</b>		<b>-0.8±1.9</b>		NS	<b>0.4±4</b>		NS
		Control	<b>2.3±2.1</b>		<b>2.5±1.9</b>			<b>1.8±2.2</b>		
		Experimental	<b>1.2±2.2</b>		<b>0.8±3</b>		NS	<b>0.7±2.7</b>		NS
		Control	9.4±2.6	<i>0.827</i>	8.6±1.9	<i>0.999</i>	<i>0.021</i>	9.9±4.0	<i>1.000</i>	
		Experimental	9.9±3.2		14.8±4.9	<i>0.027</i>		14.8±4.7	<i>0.025</i>	<i>0.058</i>
		Control	89.5±4.7		90.1±2.4			91±4.4		
		Experimental	89.7±5.2		90.3±2.0			89.8±2.6		
		Control	52.5±2.8	<i>0.651</i>	54.4±4.0	<i>0.984</i>	<i>&lt;0.001</i>	57.1±3.7	<i>0.839</i>	
		Experimental	54.1±7.5		40.1±7.5	<i>&lt;0.001</i>		39.6±8.7	<i>&lt;0.001</i>	<i>&lt;0.001</i>
		Control	56.7±7.1	<i>0.678</i>	55.7±5.0	<i>0.947</i>	<i>0.287</i>	57.2±7.7	<i>0.873</i>	
		Experimental	58.7±4.6		50.6±7.2	<i>0.018</i>		40.5±12.4	<i>&lt;0.001</i>	<i>0.003</i>
		Control	85.8±12	<i>0.876</i>	87.3±14	<i>0.945</i>	<i>0.444</i>	87.8±13	<i>0.972</i>	
		Experimental	84.8±8.7		92.3±13	<i>0.059</i>		100.7±7.3	<i>0.002</i>	<i>0.058</i>

Values expressed as mean ± s.d. Control group includes n=4 measurements; Experimental group includes n=6 measurements for all variables and time points. Columns headed by I are *p* values for within-group comparisons with baseline. Columns headed by II are *p* values for between-group comparisons. The column headed by III shows *p* values for two-way analysis of variance group effect for time. Significant *p* values are in bold. Blood pressure expressed in mmHg. Cardiac

index calculated as cardiac output/weight, expressed in units L/min/m<sup>2</sup>. Pulmonary vascular resistance calculated as (P<sub>PA</sub> - P<sub>LA</sub>) x 80/(cardiac output/weight), expressed as 10<sup>3</sup> dynes · cm<sup>-5</sup> · kg. Oxygen saturation expressed as percent saturation. Blood volume expressed mL/kg.

Parameter	Group	Week 1 Day 7			Week 2 Day 14			Week 3 Day 21		
		Value	I	II	Value	I	II	Value	I	II
Heart Rate	Control	128±21	0.458	0.827	111±11	<b>0.028</b>	0.89	103±23	<b>0.006</b>	0.297
	Experimental	124±15	0.972		113±16	0.908		119±20	0.967	
Systolic Blood Pressure	Control	94±5	0.657	0.762	98±7	0.898		99±9	0.949	
	Experimental	95±8	1.000		97±6	0.954	0.844	94±4	0.997	0.303
Diastolic Blood Pressure	Control	74±3		NS	76±5		NS	75±6		NS
	Experimental	73±8			75±6			71±5		
Superior Vena Cava Pressure	Control	5±1	0.999	<0.001	5±2	0.880	<0.001	3±2	0.316	<0.001
	Experimental	14±1	<0.001		14±1	<0.001		14±2	<0.001	
Inferior Vena Cava Pressure	Control	5±1	0.993	<0.001	7±4	0.955	<0.001	5±4	0.998	
	Experimental	14±1	<0.001		15±1	<0.001		15±1	<0.001	
Cardiac Index	Control	4.2±0.7	1.000	0.038	4.2±0.9	0.999	0.074	4.0±0.6	0.775	
	Experimental	3.2±0.7	0.129		3.3±0.9	0.302		3.9±0.7	0.977	
Mean Pulmonary Arterial Pressure	Control	20±4	0.718	0.023	17±1	0.965	0.124	17±1	0.990	
	Experimental	16±3	0.944		15±2	0.995		15±2	0.981	0.194
<b>Right Atrial Pressure</b>	Control	<b>4.7±3.2</b>			<b>2.3±3.5</b>			<b>2.7±2.3</b>		
	Experimental	<b>-0.2±1.8</b>		NS	<b>-0.2±2.5</b>		NS	<b>1.4±1.7</b>		NS
<b>Left Atrial Pressure</b>	Control	<b>3.5±2.6</b>			<b>3±2.8</b>			<b>3.3±3.2</b>		
	Experimental	<b>0±1.3</b>		NS	<b>0±0.6</b>		NS	<b>2.5±2.6</b>		NS
Pulmonary Vascular Resistance	Control	10.7±4.1	0.999	0.134	9.3±3.4	1.000	0.159	9.5±2.5	1.000	
	Experimental	14.5±5.1	<b>0.036</b>		12.8±3.8	0.308		9.2±3.1	0.941	0.895
Arterial Oxygen Saturation	Control	91.4±3.9			92.8±1.3			91.2±0.6		
	Experimental	90±2.9			90.6±2.5			88.1±2.7		
SVC Oxygen Saturation	Control	56.7±1.3	<b>0.009</b>	0.001	53.7±3.4	0.985	0.165	59.5±0.9	0.487	
	Experimental	44.2±6.9	0.835		48.7±5.1	0.240		52.7±7.4	0.516	0.057
IVC Oxygen Saturation	Control	55.1±7.4	0.985	0.436	55.1±6.2	0.957	0.312	56.5±1.2	0.817	
	Experimental	51.3±7.1	<b>0.027</b>		50.2±5.4	<b>0.018</b>		51.2±5.0	<b>0.030</b>	0.206
Plasma Volume	Control	86.8±4.7	0.841	0.072	87.9±9.1	0.992	0.020	85.5±8.4	0.950	
	Experimental	98.8±7	<b>0.002</b>		104±8.5	<0.001		100±9.4	<b>0.002</b>	0.034

Table EI: Hemodynamic and Blood Gas Data

Parameter		Group	Baseline (Day 0 preintervention)		Day 1			Day 3		
	III		Value	II	Value	I	II	Value	I	II
Heart Rate	<b>0.048</b>	Control	151±11.6	<i>0.391</i>	145±18	<i>0.865</i>	<i>0.868</i>	138±39	<i>0.641</i>	<i>0.274</i>
Systolic Blood Pressure	0.869		139±8.6		148±31	<i>0.075</i>	<i>0.053</i>	122±31	<i>0.987</i>	<i>0.130</i>
Diastolic Blood Pressure	0.982	Control	98±5	<i>0.510</i>	103±3	<i>0.988</i>		100±7	<i>0.992</i>	
Superior Vena Cava Pressure	<i>&lt;0.001</i>		95±10		94±10	<i>0.996</i>		93±9	<i>0.996</i>	
Inferior Vena Cava Pressure	<i>&lt;0.001</i>	Experimental	76±6		79±4		NS	75±4		NS
Cardiac Index	<i>&lt;0.001</i>		76±7		73±12			70±9		
Mean Pulmonary Arterial Pressure	0.960	Control	5±2	<i>0.496</i>	4±2	<i>0.899</i>	<i>&lt;0.001</i>	5±2	<i>1.000</i>	<i>&lt;0.001</i>
Right Atrial Pressure	0.169		4±2		14±1	<i>&lt;0.001</i>	<i>&lt;0.001</i>	15±1	<i>&lt;0.001</i>	<i>&lt;0.001</i>
Left Atrial Pressure	0.119	Experimental	5±2	<i>0.339</i>	3±2	<i>0.199</i>		5±3	<i>0.999</i>	
Pulmonary Vascular Resistance	<i>0.001</i>		3±2		15±1	<i>&lt;0.001</i>		15±1	<i>&lt;0.001</i>	
Arterial Oxygen Saturation	0.255	Control	4.2±0.9	<i>0.547</i>	4.5±0.9	<i>1.000</i>	<i>0.001</i>	4.4±1.1	<i>1.000</i>	<i>0.002</i>
SVC Oxygen Saturation	<i>0.001</i>		3.9±1.0		2.7±0.7	<i>&lt;0.001</i>	<i>0.351</i>	2.7±0.4	<i>&lt;0.001</i>	<i>0.139</i>
IVC Oxygen Saturation	<i>&lt;0.001</i>	Experimental	17±2	<i>0.156</i>	16±1	<i>0.935</i>		17±1	<i>0.970</i>	
Plasma Volume	0.059		15±2		15±2	<i>0.999</i>		15±2	<i>0.995</i>	
		Control	3±2		1.3±2.3		NS	2±2.6		
			0.8±1.8		-0.8±1.9			0.4±4		NS
		Experimental	2.3±2.1		2.5±1.9		NS	1.8±2.2		NS
			1.2±2.2		0.8±3			0.7±2.7		
		Control	9.4±2.6	<i>0.827</i>	8.6±1.9	<i>0.999</i>	<i>0.021</i>	9.9±4.0	<i>1.000</i>	
			9.9±3.2		14.8±4.9	<i>0.027</i>		14.8±4.7	<i>0.025</i>	<i>0.058</i>
		Control	89.5±4.7		90.1±2.4			91±4.4		
			89.7±5.2		90.3±2.0			89.8±2.6		
		Experimental	52.5±2.8	<i>0.651</i>	54.4±4.0	<i>0.984</i>	<i>&lt;0.001</i>	57.1±3.7	<i>0.839</i>	<i>&lt;0.001</i>
			54.1±7.5		40.1±7.5	<i>&lt;0.001</i>		39.6±8.7	<i>&lt;0.001</i>	
		Control	56.7±7.1	<i>0.678</i>	55.7±5.0	<i>0.947</i>	<i>0.287</i>	57.2±7.7	<i>0.873</i>	<i>0.003</i>
			58.7±4.6		50.6±7.2	<i>0.018</i>		40.5±12.4	<i>&lt;0.001</i>	
		Experimental	85.8±12		87.3±14	<i>0.945</i>	<i>0.444</i>	87.8±13	<i>0.972</i>	
			84.8±8.7		92.3±13	<i>0.059</i>		100.7±7.3	<i>0.002</i>	<i>0.058</i>

Values expressed as mean ± s.d. Control group includes n=4 measurements; Experimental group includes n=6 measurements for all variables and time points. Columns headed by I are *p* values for within-group comparisons with baseline. Columns headed by II are *p* values for between-group comparisons. The column headed by III shows *p* values for two-way analysis of variance group effect for time. Significant *p* values are in bold. Blood pressure expressed in mmHg. Cardiac index calculated as cardiac output/weight, expressed in units L/min/m<sup>2</sup>. Pulmonary vascular resistance calculated as (P<sub>PA</sub> - P<sub>LA</sub>) x 80/(cardiac output/weight), expressed as 10<sup>3</sup> dynes · cm<sup>-5</sup> · kg. Oxygen saturation expressed as percent saturation. Blood volume expressed mL/kg.

Parameter	Group	Day 7			Day 14			Day 21		
		Value	I	II	Value	I	II	Value	I	II
Heart Rate	Control	128±21	0.458	0.827	111±11	<b>0.028</b>	0.89	103±23	<b>0.006</b>	0.297
	Experimental	124±15	0.972		113±16	0.908		119±20	0.967	
Systolic Blood Pressure	Control	94±5	0.657	0.762	98±7	0.898	0.844	99±9	0.949	0.303
	Experimental	95±8	1.000		97±6	0.954		94±4	0.997	
Diastolic Blood Pressure	Control	74±3		NS	76±5		NS	75±6		NS
	Experimental	73±8			75±6			71±5		
Superior Vena Cava Pressure	Control	5±1	0.999		5±2	0.880		3±2	0.316	
	Experimental	14±1	<0.001		14±1	<0.001		14±2	<0.001	<0.001
Inferior Vena Cava Pressure	Control	5±1	0.993		7±4	0.955		5±4	0.998	
	Experimental	14±1	<0.001		15±1	<0.001		15±1	<0.001	<0.001
Cardiac Index	Control	4.2±0.7	1.000		4.2±0.9	0.999		4.0±0.6	0.775	0.789
	Experimental	3.2±0.7	0.129		3.3±0.9	0.302		3.9±0.7	0.977	
Mean Pulmonary Arterial Pressure	Control	20±4	0.718		17±1	0.965		17±1	0.990	
	Experimental	16±3	0.944		15±2	0.995		15±2	0.981	0.194
Right Atrial Pressure	Control	4.7±3.2		NS	2.3±3.5			2.7±2.3		
	Experimental	-0.2±1.8			-0.2±2.5			1.4±1.7		NS
Left Atrial Pressure	Control	3.5±2.6		NS	3±2.8			3.3±3.2		
	Experimental	0±1.3			0±0.6			2.5±2.6		NS
Pulmonary Vascular Resistance	Control	10.7±4.1	0.999		9.3±3.4	1.000		9.5±2.5	1.000	
	Experimental	14.5±5.1	<b>0.036</b>		12.8±3.8	0.308		9.2±3.1	0.941	0.895
Arterial Oxygen Saturation	Control	91.4±3.9			92.8±1.3			91.2±0.6		
	Experimental	90±2.9			90.6±2.5			88.1±2.7		
SVC Oxygen Saturation	Control	56.7±1.3	<b>0.009</b>		53.7±3.4	0.985		59.5±0.9	0.487	
	Experimental	44.2±6.9	0.835		48.7±5.1	0.240		52.7±7.4	0.516	0.057
IVC Oxygen Saturation	Control	55.1±7.4	0.985		55.1±6.2	0.957		56.5±1.2	0.817	
	Experimental	51.3±7.1	<b>0.027</b>		50.2±5.4	<b>0.018</b>		51.2±5.0	<b>0.030</b>	0.206
Plasma Volume	Control	86.8±4.7	0.841		87.9±9.1	0.992		85.5±8.4	0.950	
	Experimental	98.8±7	<b>0.002</b>		104±8.5	<0.001		100±9.4	<b>0.002</b>	<b>0.034</b>

Table EII: Serum neurohormonal markers.

	Group	Study 1 <b>(Day -1)</b>	Postintervention <b>(Day 0)</b>	Study 2 <b>(Day 3)</b>	Study 3 <b>(Day 7)</b>	Study 4 <b>(Day 14)</b>	Study 5 <b>(Day 21)</b>
<b>ADH (pg/ml)</b>	Control	1.15 ± 1.11	2.11 ± 0.9	1.64 ± 1.13	2 ± 0.83	2.72 ± 1.07	2.85 ± 0.64
	Experimental	2.6 ± 1.03	21.14 ± 38.64	3.82 ± 2.31	4.39 ± 1.82	3.1 ± 2.31	3.43 ± 2.09
<b>Aldosterone (pg/ml)</b>	Control	58.2 ± 18.59	41.68 ± 42.43	59.44 ± 41.88	17.82 ± 27.55	16.62 ± 22.09	47.78 ± 56.15
	Experimental	106.7 ± 116.9	252.3 ± 230.4	284.7 ± 230.1	58.6 ± 86.8	107.2 ± 203.8	32.5 ± 32.5
<b>Angiotensin II (pg/ml)</b>	Control	506.5 ± 306	601 ± 206.8	518.6 ± 174.1	424.1 ± 108.4	474.3 ± 230.9	550.1 ± 160.7
	Experimental	1610.1 ± 701.3	3261.2 ± 2394.3	4576.8 ± 3894.5	2840.6 ± 2528.7	1745.4 ± 1337.4	1759.3 ± 1109.5
<b>BNP (ng/ml)</b>	Control	0.25 ± 0.03	0.26 ± 0.06	0.31 ± 0.08	0.32 ± 0.12	0.38 ± 0.12	0.33 ± 0.1
	Experimental	0.3 ± 0.07	0.22 ± 0.03	0.21 ± 0.02	0.27 ± 0.08	0.27 ± 0.05	0.28 ± 0.03
<b>Epinephrine (ng/ml)</b>	Control	0.09 ± 0.05	0.05 ± 0.05	0.07 ± 0.05	0.04 ± 0.03	0.09 ± 0.09	0.07 ± 0.09
	Experimental	0.08 ± 0.03	0.15 ± 0.09	0.11 ± 0.07	0.02 ± 0.02	0.00 ± 0.01	0.01 ± 0.02
<b>Norepinephrine (ng/ml)</b>	Control	0.58 ± 0.29	0.42 ± 0.22	0.63 ± 0.22	0.51 ± 0.38	0.61 ± 0.5	0.58 ± 0.44
	Experimental	1.25 ± 0.75	1.2 ± 0.88	1.48 ± 1.36	0.97 ± 0.69	0.22 ± 0.16	0.47 ± 0.26

Values expressed as mean ± s.d. Control group includes n = 4 measurements and experimental group includes n =5 measurements for all variables and time points, except Angiotensin II, for which n=3 in the experimental group.

Table EII: Serum neurohormonal markers.

	Group	Study 1 (Day -1)	Postintervention (Day 0)	Study 2 (Day 3)	Study 3 (Day 7)	Study 4 (Day 14)	Study 5 (Day 21)
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Values expressed as mean ± s.d. Control group includes n = 4 measurements and experimental group includes n =5 measurements for all variables and time points, except Angiotensin II, for which n=3 in the experimental group.