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## Magnetic Resonance Imaging Correlates of White Matter Gliosis and Injury in Preterm Fetal Sheep Exposed to Progressive Systemic Inflammation

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**Supplementary table 1.** Arterial pH, blood gases, glucose and lactate values.

		Day 1 baseline	Day 2	Day 2 +6h	Day 3	Day 3 +6h	Day 4	Day 4 +6h	Day 5	Day 5 +6h	Day 6 (recovery)
pH	Saline	7.33±0.01	7.34±0.01	7.33±0.01	7.33±0.01	7.33±0.01	7.33±0.01	7.32±0.01	7.33±0.01	7.32±0.01	7.33±0.01
	LPS	7.34±0.01	7.35±0.01	7.35±0.01	7.34±0.01	7.34±0.01	7.33±0.01	7.34±0.01	7.33±0.01	7.33±0.01	7.33±0.01
HCO <sub>3</sub> <sup>-</sup> (mmol/L)	Saline	23.0±0.6	23.2±1.0	23.4±0.7	23.3±0.7	21.7±1.3	22.9±0.6	22.9±0.8	22.9±0.7	23.1±0.7	24.1±0.6
	LPS	24.8±0.7	23.9±0.7	25.3±0.7*	24.5±0.5	23.8±0.4*	24.5±0.4	25.4±0.6*	23.3±0.6	23.9±0.4	25.0±0.6
PCO <sub>2</sub> (mmHg)	Saline	47.1±1.0	48.4±1.8	48.9±1.4	48.8±1.6	50.1±1.3	48.0±1.2	48.1±1.2	48.1±1.5	48.9±1.7	50.6±1.9
	LPS	50.1±1.4	49.5±1.0	50.5±1.2	49.9±1.1	49.0±1.1	52.2±1.2	52.1±1.0	49.3±1.6	49.4±1.1	52.2±1.4
PO <sub>2</sub> (mmHg)	Saline	22.6±1.2	23.2±1.4	21.9±1.3	23.7±1.2	22.1±1.4	23.5±1.2	22.0±1.3	24.2±1.4	21.8±1.2	24.0±1.1
	LPS	25.3±1.3	25.4±1.2	25.0±1.4	25.6±1.0	24.7±1.3	25.4±1.1	24.1±1.4	25.5±1.2	24.9±1.4	24.8±0.9
Glucose (mmol/L)	Saline	0.7±0.0	0.8±0.1	0.8±0.1	0.7±0.1	0.8±0.1	0.7±0.0	0.7±0.1	0.7±0.0	0.8±0.1	0.7±0.0
	LPS	0.8±0.0	0.9±0.1	0.9±0.1	0.8±0.1	0.9±0.1	0.8±0.0	0.9±0.1	0.8±0.0	0.8±0.1	0.9±0.1
Lactate (mmol/L)	Saline	0.7±0.1	0.7±0.0	0.9±0.1	0.8±0.0	0.8±0.0	0.8±0.0	0.9±0.1	0.8±0.0	0.9±0.1	0.8±0.0
	LPS	0.7±0.0	0.7±0.1	0.8±0.1	0.7±0.1	0.8±0.1	0.8±0.1	0.9±0.1	0.8±0.1	0.9±0.1	0.8±0.0

Data are means ± SEM. LPS, lipopolysaccharide, PCO<sub>2</sub> partial pressure of arterial carbon dioxide, PO<sub>2</sub> partial pressure of arterial oxygen, HCO<sub>3</sub><sup>-</sup> bicarbonate. \*P<0.05 vs control.

**Supplementary table 2.** Cardiovascular changes during fetal inflammation and recovery.

	<b>FHR (% baseline)</b>	<b>MAP (mmHg)</b>	<b>FBF (mL/min)</b>	<b>FVC (mL/min/mmHg)</b>
<b>Baseline</b>				
Control	100±0	37±1	13±3	0.3±0.1
LPS	100±0	36±1	11±2	0.3±0.1
<b>Day 1</b>				
Control	100±1	37±1	13±3	0.4±0.1
LPS	103±1	36±1	13±2	0.4±0.1
<b>Day 2</b>				
Control	99±1	37±1	14±3	0.4±0.1
LPS	100±1	36±1	12±2	0.3±0.1
<b>Day 3</b>				
Control	99±1	38±1	15±3	0.4±0.1
LPS	101±1	35±1*	13±3	0.4±0.1
<b>Day 4</b>				
Control	98±1	38±1	16±3	0.4±0.1
LPS	100±2	35±1*	15±3	0.4±0.1
<b>Day 5</b>				
Control	96±1	38±1	17±4	0.4±0.1
LPS	99±2	36±1	17±3	0.5±0.1
<b>Day 6</b>				
Control	95±2	38±1	19±4	0.5±0.1
LPS	98±1	37±1	17±3	0.5±0.1
<b>Day 7</b>				
Control	94±2	38±1	18±3	0.5±0.1

LPS	98±1	37±1	18±4	0.5±0.1
<b>Day 8</b>				
Control	93±2	38±1	20±3	0.5±0.1
LPS	98±2*	38±1	20±4	0.5±0.1
<b>Day 9</b>				
Control	93±2	39±1	22±4	0.6±0.1
LPS	96±1	38±1	21±4	0.5±0.1
<b>Day 10</b>				
Control	92±1	39±1	23±4	0.6±0.1
LPS	97±1*	39±1	23±4	0.6±0.1

Data are means ± SEM. LPS, lipopolysaccharide. FHR, fetal heart rate; MAP, mean arterial pressure; FBF, femoral blood flow; FVC, femoral vascular conductance.  
\*P<0.05 vs control.