

Table S1 – related to Table 3. Fatty acid composition in stomach contents consumed in milk as a percentage of total of total fatty acids on postnatal day 6 (n = 6-7 per group, with n = 1 representing data from 1 pooled litter). Data are analysed with a two-way ANOVA reporting differences between Pup (Standard and Reduced litters) and Dam (Normal and Altered milk quality/composition) groups, with a Tukey's post-hoc used to identify where interactions lie. Data presented as the mean \pm SEM, where ns is not significant. Significant differences between Standard and Reduced litter pups are indicated by an asterisk (* $P < 0.05$) and differences between sham operated (Control; Normal milk quality/composition) and uteroplacental insufficiency surgery (Restricted; Altered milk quality/composition) dams are indicated with a double dagger ($\ddagger p < 0.05$).

Pup -on- Dam	Standard -on- Normal	Standard -on- Altered	Reduced -on- Normal	Reduced -on- Altered	Two-way ANOVA		
					Pup	Dam	Interaction
Saturated fatty acids (%)							
Medium chain (%)							
8:0 Caprylic	1.15±0.21	1.05±0.19	2.08±0.23	1.44±0.26	p = 0.008	ns	ns
10:0 Capric	8.61±0.48	8.44±1.43	9.90±0.34	9.65±0.54	ns	ns	ns
12:0 Lauric	10.07±0.34	8.74±1.50	9.16±0.32	9.76±0.30	ns	ns	ns
Long chain (%)							
14:0 Myristic	12.44±0.44	11.03±0.89	9.01±0.65	10.28±0.70	p = 0.008	ns	ns
15:0 Pentadecanoic	0.17±0.01	0.24±0.01‡	0.20±0.01*	0.21±0.01	ns	p = 0.001	p = 0.004
16:0 Palmitic	24.34±0.76	21.06±1.24	18.90±0.75*	20.70±1.22	p = 0.012	ns	p = 0.025
17:0 Margaric	0.18±0.01	0.17±0.03	0.17±0.01	0.15±0.03	ns	ns	ns
18:0 Stearic	3.14±0.24	2.57±0.04‡	2.57±0.07*	2.76±0.08	ns	ns	p = 0.007
20:0 Arachidic	0.10±0.02	0.09±0.02	0.08±0.02	0.10±0.02	ns	ns	ns
Monounsaturated fatty acids (%)							
12:1 Lauroleic	0.00±0.00	0.28±0.11	0.57±0.24	0.57±0.21	p = 0.016	ns	ns
16:1 Palmitoleic	0.93±0.07	0.97±0.08	1.22±0.08	1.00±0.09	ns	ns	ns
17:1 Heptadecenoic	0.05±0.03	0.10±0.02	0.08±0.02	0.08±0.03	ns	ns	ns
18:1n-9 Oleic	20.87±0.82	20.58±1.24	23.29±0.88	21.69±0.66	ns	ns	ns
20:1n-9 Gondoic	0.51±0.03	0.50±0.04	0.59±0.03	0.54±0.02	ns	ns	ns
LC-PUFA (n-6) (%)							
18:3n-6 γ-linolenic	0.20±0.01	0.25±0.01‡	0.26±0.01*	0.23±0.02	ns	ns	p = 0.006
20:2 Eciosatrienoic	0.53±0.02	0.58±0.03	0.63±0.03	0.60±0.03	p = 0.051	ns	ns
20:3n-6 Dihomo-γ-linolenic	0.35±0.02	0.40±0.02	0.40±0.01	0.39±0.01	ns	ns	ns
22:4n-6 Docosatetraenoic	0.49±0.04	0.69±0.10	0.82±0.07*	0.70±0.06	p = 0.029	ns	p = 0.046
LC-PUFA (n-3) (%)							
22:5n-3 Docosapentaenoic	0.36±0.03	0.38±0.04	0.50±0.04	0.43±0.03	p = 0.016	ns	ns