Supplementary Material

Table S1 Clinical characteristics of participants by randomisation group

Infants (<i>n</i> = 92)	Whole Cohort		<1000g		>=1000g	
	(n =92)		(n = 44)		(n = 48)	
	Std	Higher	Std	Higher	Std	Higher
	Protein	Protein	Protein	Protein	Protein	Protein
	n = 49	n = 43	n=20	n= 24	n = 29	n = 19
Gestational age (weeks)	28 (27,	27 (25,	26.5	25.5	28 (28,	29 (28,
	29)	29)	(25.3, 28)	(24.3,	29)	30)
Downston and boards				27.8)		
Recruitment hospital	40	27	10	20	25	17
Women's and Children's	43	37	18	20	25	17
Hospital	_	_				
Flinders Medical Centre	6	6	2	4	4	2
Male infants	21	19	5	14	16	5
Birth anthropometry						
Weight (g)	1056, 289	1012, 315	787, 146	789, 165	1242, 203	1294, 219
Length (cm)†	35.6,	35.7,3.5	32.4, 2.8	33.4, 2.7	37.7, 1.9	38.6, 1.7
	3.4(n =		(n = 19)			
	48)					
Head circumference (cm)	25.6, 2	25.3, 2.5	23.8, 1.4	23.8, 2.1	26.8, 1.4	27, 1.6
				(n = 23)		
Caesarean section	32	27	16	15	16	12
Multiple births (number of infants)	20	4	7	3	13	1
,						
Mothers $(n = 80)$	n = 39	n = 41	n = 16	n = 23	n = 23	n = 18
Age (years)	30, 5	29, 6	31, 6	31, 6	30, 5	28, 5
Smoked during pregnancy	6	9	3	5	3	4
Previous preterm birth	5	6	0	1	5	5
Received antenatal steroids	45	36 (n =	15	20	21	15
		42)				
Received IVF	8	3	2	2	6	1
Completed Secondary Education §	26	31	11	19	15	12

Data are presented as median (interquartile range), N, Mean, SD.

Abbreviations: IVF, in vitro fertilisation

‡Mothers of twins were categorised according to the BW of the first born, if weight categories of the 2 infants differed \S n = 79 mothers

[†] *n* = 91 infants

Table S2 Infant outcomes by randomisation group

Table 32 Illant outcomes by fantionusation										
Clinical Outcomes	Whole cohort $(n = 92)$		<1000g $(n = 44)$		≥1000g (n = 48)					
	Std	Higher	Std	Higher	Std	Higher				
	Protein	Protein	Protein	Protein	Protein	Protein				
	n = 49	n = 43	n= 20	n= 24	n = 29	n = 19				
Chronic lung disease †	17	20	12	17	5	3				
Received corticosteroid treatment	17	14	11	12	6	2				
Confirmed necrotizing enterocolitis	5	3	4	3	1	0				
Intraventricular haemorrhage ‡	13	10	4	6	9	4				
Sepsis	7	6	4	4	3	2				
Nasal CPAP	14	12	3	6	11	6				
Length of stay §	74, 16	77, 21	84, 12	90, 15	66, 15	61, 16				
Post-menstrual age at discharge or	38 (37,	38 (37,	39 (38,	39 (38,	38 (37,	37 (36,				
EDD (weeks)	40)	39)	40)	40)	39)	38)				
Growth outcomes										
Weight gain ¶ (g/day)	28.6, 5.7	29.1, 4.7	26.4, 5	27.4, 4.3	30.1, 5.7	31.3, 4.4				
Intrauterine weight gain	,	,	,	,	,	,				
(g/kg/day)(26)										
Weight gain ¶ (g/kg/day)	16.3, 1.9	16.6, 2	17, 1.6	16.8, 1.8	15.8, 1.9	16.3, 2.3				
Weight gain before 34 weeks PMA	·				·					
(g/day)	25.5, 6	24.6, 6.4	22.7, 5.4	22, 5.9	27.5, 5.6	28, 5.5				
Weight gain after 34 weeks PMA										
(g/day)	29.3, 6.9	31.3, 6	29, 5.9	2909, 5	29.5, 7.6	33.1, 6.7				
Length gain (cm/week)	1.1, 0.2	1.2, 0.1	1.1, 0.1	1.2. 0.1	1.1, 0.2	1.2, 0.2				
Head circumference gain (cm/week)	1, 0.2	1, 0.1	1, 0.1	1, 0.1	1, 0.2	1, 0.2				
Discharge weight (grams)	2647, 374	2753, 331	2565, 492	2742, 358	2703, 260	2768, 302				
2 23 621111 26 11 62 62 11 (82 11 11 13)		ry Outcome		= , 1 = , 000	2. 00, 200	2. 00, 002				
Age study fortifier commenced	13 (10,	13 (10,	14 (12,	18 (11,						
(days)	16)	18)	18)	22)	11 (8, 16)	10 (8, 13)				
Age enteral feeds commenced (days)	3 (2, 5)	3 (2, 4)	4 (3, 5)	43,5	3 (2, 5)	3 (2, 4)				
Days to reach full enteral feeds	15 (12,	17 (11,	16 (14,	21 (16,	13 (11,	0 (2) 1)				
(days)	18)	23)	24)	27)	17)	12 (8, 14)				
HMF introduced (ml/kg enteral	120 (93,	120 (96,	99 (90,	111 (74,	137 (105,	131 (108,				
intake)	141)	156)	132)	151)	149)	157 (100,				
	16 (12,	17 (10,	24 (15,	32 (16,	147)	137)				
Days on parenteral nutrition (days)	29)	25)	31)	27)	14 (9, 17)	11 (7, 15)				
	29)	23)	15 (10,							
Days on intravenous lipid (days)	12 (8, 19)	11 (7, 16)	•	16 (10,	10 (6, 14)	7 (4, 10)				
Human milk as a proportion of measured enteral intake (number of infants)										
		asurea ente 26	rai intake (i 8	number of 1 14		10				
>80%	23				15	12				
20% to 80%	23	11	10	6	13	5				
<20%	3	6	2	4	1	2				

Data are presented as *N*, Mean, SD and median (interquartile range).

Abbreviations: CPAP, continuous positive airway pressure; EDD, estimated due date; HMF, human milk fortifier \dagger As defined by requirement for supplemental oxygen at 36 weeks post-menstrual age; \ddagger n = 91 infants; §To discharge home or estimated due date, whichever came first.; ¶ Weight gain from when birth weight regained and maintained 2 days