

1 **Blood calcium dynamics in cows receiving an aqueous calcium suspension for voluntary**
2 **consumption or a calcium bolus following parturition**

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7 **SUPPLEMENTARY FILE**

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10 **TABLE S1**

11 **Details and blocking of individual cows recruited to the study**

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COW ID	Block	Parity	Treatment	Calving date
622	2	PP	Ca-drink	25/01/2018
649	2	PP	CON	28/01/2018
701	2	PP	Ca-bolus	30/01/2018
7476	3	MP	Ca-bolus	23/01/2018
7830	3	MP	CON	26/01/2018
7815	3	MP	Ca-drink	17/02/2018
7744	4	MP	Ca-drink	01/02/2018
7826	4	MP	Ca-bolus	09/02/2018
8139	4	MP	CON	17/02/2018
648	7	PP	CON	31/01/2018
395	7	PP	Ca-bolus	04/02/2018
678	7	PP	Ca-drink	21/02/2018
268	8	MP	Ca-bolus	03/02/2018
8174	8	MP	CON	03/02/2018
93	8	MP	Ca-drink	07/02/2018
7890	9	MP	Ca-drink	27/01/2018
223	9	MP	Ca-bolus	18/02/2018
104	9	MP	CON	02/04/2018
7948	10	MP	Ca-drink	23/01/2018
9904	10	MP	Ca-bolus	11/02/2018
8058	10	MP	CON	22/04/2018
7833	11	MP	CON	03/02/2018
7962	11	MP	Ca-drink	19/02/2018
7946	11	MP	Ca-bolus	17/04/2018
341	18	MP	Ca-bolus	21/02/2018
220	18	MP	Ca-drink	07/03/2018
101	18	MP	CON	29/04/2018
234	22	MP	Ca-drink	30/01/2018
243	22	MP	CON	09/02/2018
267	22	MP	Ca-bolus	09/02/2018

752	28	PP	Ca-bolus	08/03/2018
639	28	PP	CON	13/03/2018
656	28	PP	Ca-drink	16/03/2018
7952	32	MP	Ca-bolus	02/03/2018
8194	32	MP	CON	17/03/2018
8128	32	MP	Ca-drink	18/03/2018
7835	34	MP	CON	02/03/2018
1146	34	MP	Ca-drink	25/03/2018
7680	34	MP	Ca-bolus	31/03/2018
6807	35	MP	CON	22/02/2018
7363	35	MP	Ca-bolus	24/03/2018
7094	35	MP	Ca-drink	28/03/2018
713	36	PP	Ca-drink	04/02/2018
659	36	PP	CON	15/03/2018
611	37	PP	Ca-drink	02/03/2018
660	37	PP	CON	15/03/2018
731	37	PP	Ca-bolus	27/03/2018
9789	40	MP	Ca-drink	04/04/2018
7824	40	MP	CON	05/04/2018
7007	40	MP	Ca-bolus	01/05/2018
7052	44	MP	Ca-drink	09/04/2018
7516	44	MP	Ca-bolus	10/04/2018
7936	44	MP	CON	26/04/2018
7839	45	MP	Ca-drink	08/03/2018
9891	45	MP	CON	20/04/2018
6868	45	MP	Ca-bolus	24/04/2018
7529	46	MP	Ca-drink	15/04/2018
9853	46	MP	Ca-bolus	17/04/2018
9912	46	MP	CON	17/04/2018
9905	48	MP	Ca-drink	10/02/2018
7809	48	MP	CON	19/04/2018
7411	48	MP	Ca-bolus	01/05/2018
298	55	MP	CON	16/05/2018
7162	56	MP	Ca-drink	07/04/2018
8061	56	MP	Ca-bolus	30/04/2018
364	56	MP	CON	09/05/2018
7462	59	MP	Ca-bolus	04/05/2018
8254	59	MP	CON	17/05/2018
7974	60	MP	CON	28/04/2018

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 16 **TABLE S2.** Dietary ingredients and nutrient composition (as formulated) of pre- and post-partum
 17 diets on DM basis.

Items	Ration composition	
	Prepartum diet	Postpartum diet
Ingredient composition of PMR diet (% of DM):		
Grass silage	29.0	56.0
Maize silage	18.0	19.0
Straw	30.0	-
Wheat yeast concentrate	12.0	5.0
Soybean meal	6.0	8.0
Wheat meal	-	10.0
Mineral premix dry cow	5.0	-
Mineral premix lactating cow	-	2.0
Concentrates:		
Milking parlor (kg)	-	1.0
Concentrate feeders (kg)	1.5	8.0
Net energy (MJ/kg DM)	5.7	6.8
Nutrient composition ¹		
CP	135	162
NDF	434	333
Starch	94	193
Sugars	60	66
Na	2.4	3.6
K	18.9	19.7
Ca	3.8	6.4
P	3.6	4.2
Mg	4.5	4.0
Fe (mg/kg DM)	128	315
Mn (mg/kg DM)	63	56
Cu (mg/kg DM)	25	19
Zn (mg/kg DM)	64	52
DCAD (mEq/kg DM) ²	+ 261	+ 370

18 ¹Expressed in g/kg DM except if specified otherwise.

19 ²Calculated using the equation [(mEq of Na + mEq of K) – (mEq of Cl + mEq of S)].

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