**Short- and long-term effects of postpartum oral bolus versus subcutaneous Ca supplements on mineral and** **metabolic status and productivity of Holstein cows fed a prepartum acidogenic diet**

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| Table S1. Intra- and inter-assay CV for measured blood metabolites in Holstein cows |
| Item | Intra-assay CV (%) | Inter-assay CV (%) |
| Ca | 6.4 | 6.8 |
| Mg | 4.5 | 7.1 |
| P | 5.8 | 6.1 |
| Glucose | 6.7 | 7.0 |
| β-hydroxybutyric acid | 8.9 | 9.5 |
| non-esterified fatty acid | 6.5 | 6.8 |

SAS cod:

data jahani;

input cow$ trt$ day$ ca p mg;

cards;

Proc mixed data =p;

classes cow trt day;

model ca= trt day trt\*day/ ddfm = kr;

lsmeans trt day trt\*day/slice = day;

repeated day /subject = cow(trt) type = ar(1);

lsmeans trt day day\*trt/pdiff;

contrast '1 vs 2,3'

 Trt 1 -0.5 -0.5;

contrast '2 vs 3'

 Trt 0 1 -1;

run;

data milk;

input cow$ trt$ day$ milk;

cards;

Proc mixed data =milk;

classes cow trt day;

model milk= trt day trt\*day/ ddfm = kr;

repeated day /subject = cow(trt) type = ar(1);

lsmeans trt day trt\*day/slice = day;

lsmeans trt day trt\*day /pdiff;

contrast '1 vs 2,3'

 Trt 1 -0.5 -0.5;

contrast '2 vs 3'

 Trt 0 1 -1;

run;