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Impact of different dietary regimens at dry-off on performance, metabolism, and immune system in dairy cows

P. M. Jermann, D. Fritsche, L. A. Wagner, O. Wellnitz, R. M. Bruckmaier, J. J. Gross*
Veterinary Physiology, Vetsuisse Faculty, University of Bern, Bremgartenstrasse 109a, 3012 Bern, Switzerland

*Corresponding author: josef.gross@vetsuisse.unibe.ch

Supplemental Figure Captions.

Supplemental Figure S1. Dry matter intake (DMI) in dairy cows from d -12 until d +6 relative to dry-off. Cows were either fed concentrates rich in crude protein (Nitrogenic; n = 14), carbohydrates (Glucogenic; n = 14), or lipids (Lipogenic; n = 15). At d -3 before dry-off, feed restriction was applied to half of the cows in all dietary treatments. Data are mean values ± SEM. Filled symbols indicate the control groups, empty symbols represent the restricted groups of the respective dietary treatments. Different letters indicate a significant difference (P < 0.05) within the restricted (a,b,c) or control group (A,B,C) over time (3-d intervals). A significant difference (P < 0.05) between the restrictive and respective control group at the same interval is marked with "*".

Supplemental Figure S2. Milk protein content in dairy cows from d -12 until dry-off. Cows were either fed concentrates rich in crude protein (Nitrogenic; n = 14), carbohydrates...
(Glucogenic; n = 14), or lipids (Lipogenic; n = 15). At d -3 before dry-off, feed restriction was applied to half of the cows in all dietary treatments. Data are mean values ± SEM. Filled symbols indicate the control groups, empty symbols represent the restricted groups of the respective dietary treatments.

**Supplemental Figure S3.** Milk fat content in dairy cows from d -12 until dry-off. Cows were either fed concentrates rich in crude protein (Nitrogenic; n = 14), carbohydrates (Glucogenic; n = 14), or lipids (Lipogenic; n = 15). At d -3 before dry-off, feed restriction was applied to half of the cows in all dietary treatments. Data are mean values ± SEM. Filled symbols indicate the control groups, empty symbols represent the restricted groups of the respective dietary treatments. The letters x and y indicate a significant difference ($P < 0.05$) between d -4 and d -1 relative to dry-off in the restrictive groups.

**Supplemental Figure S4.** Milk fat:protein ratio in dairy cows from d -12 until dry-off. Cows were either fed concentrates rich in crude protein (Nitrogenic; n = 14), carbohydrates (Glucogenic; n = 14), or lipids (Lipogenic; n = 15). At d -3 before dry-off, feed restriction was applied to half of the cows in all dietary treatments. Data are mean values ± SEM. Filled symbols indicate the control groups, empty symbols represent the restricted groups of the respective dietary treatments. The letters x and y indicate a significant difference ($P < 0.05$) between d -4 and d -1 relative to dry-off in the restrictive groups.

**Supplemental Figure S5.** Milk sodium content in dairy cows from d -12 until dry-off. Cows were either fed concentrates rich in crude protein (Nitrogenic; n = 14), carbohydrates (Glucogenic; n = 14), or lipids (Lipogenic; n = 15). At d -3 before dry-off, feed restriction was applied to half of the cows in all dietary treatments. Data are mean values ± SEM. Filled
symbols indicate the control groups, empty symbols represent the restricted groups of the respective dietary treatments.

**Supplemental Figure S6.** Milk potassium content in dairy cows from d -12 until dry-off. Cows were either fed concentrates rich in crude protein (Nitrogenic; n = 14), carbohydrates (Glucogenic; n = 14), or lipids (Lipogenic; n = 15). At d -3 before dry-off, feed restriction was applied to half of the cows in all dietary treatments. Data are mean values ± SEM. Filled symbols indicate the control groups, empty symbols represent the restricted groups of the respective dietary treatments. The letters x and y indicate a significant difference ($P < 0.05$) between d -4 and d -1 relative to dry-off in the restrictive groups. A significant difference ($P < 0.05$) between the restrictive and respective control group at the same interval is marked with "*", while tendencies ($P < 0.10$) are marked with "."

**Supplemental Figure S7.** Milk chloride content in dairy cows from d -12 until dry-off. Cows were either fed concentrates rich in crude protein (Nitrogenic; n = 14), carbohydrates (Glucogenic; n = 14), or lipids (Lipogenic; n = 15). At d -3 before dry-off, feed restriction was applied to half of the cows in all dietary treatments. Data are mean values ± SEM. Filled symbols indicate the control groups, empty symbols represent the restricted groups of the respective dietary treatments. A significant difference ($P < 0.05$) between the restrictive and respective control group at the same interval is marked with "*", while tendencies ($P < 0.10$) are marked with "."
Supplemental Figure S1.
Supplemental Figure S2.
Supplemental Figure S3.
Supplemental Figure S4.
Supplemental Figure S5.
Supplemental Figure S6.
Supplemental Figure S7.