Corrigendum to “Robustness and sensitivity of a blueprint for on-farm estimation of dairy cow energy balance” (J. Dairy Sci. 101:6002–6018)

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On page 6018, there were two errors in equation B5 in the Appendix. The corrected paragraph is shown below (corrections in bold):

B5. Adjust BW for pregnancy (i.e., gravid uterus; Equation [2] in Thorup et al., 2013), adapted from Martin and Sauvant (2010):

$$W_{\text{fetal}} = \omega \times \exp\{-\ln[\omega/\text{CBW}]/(1 - e^{-\alpha \times \text{GL}}) \times (1 - e^{-\alpha \times \text{dfcon}})\}$$

$$\text{GU} = (W_{\text{fetal}}/0.58)/1,000.$$

Calculate days from conception (dfcon). If birth date of future calf is unknown, dfcon can be estimated as current calving date plus 400 d minus length of gestation period (GL) of 282 d (i.e., current calving date + 118 d). CBW = calf birth weight (Holstein = 44,000 g, Jersey = 29,000 g), $\omega = 3.5 \times 10^{-6}$ kg is the initial value of fetal growth, $\alpha = 0.0111$ is the rate of decay of fetal growth rate (no unit), W_{fetal} = weight of fetus (g), assumed to make up 58% of the weight of the gravid uterus (GU, kg).

The authors regret the errors.

REFERENCES

Thorup, V. M., M. G. G. Chagunda, A. Fischer, M. R. Weisbjerg, and N. C. Friggens. 2018. Robustness and sensitivity of a blueprint for on-farm estimation of dairy cow energy balance. J. Dairy Sci. 101(7):6002–6018. <https://doi.org/10.3168/jds.2017-14290>.