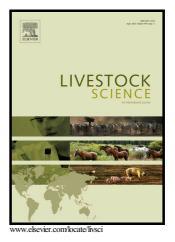
Author's Accepted Manuscript

Improving welfare and production in the periweaning period: Effects of co-mingling and intermittent suckling on the stress response, performance, behaviour, and gastrointestinal tract carbohydrate absorption in young pigs



D.L. Turpin, P. Langendijk, C. Sharp, J.R. Pluske

PII: S1871-1413(17)30202-0 DOI: http://dx.doi.org/10.1016/j.livsci.2017.07.006 Reference: LIVSCI3257

To appear in: Livestock Science

Received date: 11 November 2016 Revised date: 22 March 2017 Accepted date: 10 July 2017

Cite this article as: D.L. Turpin, P. Langendijk, C. Sharp and J.R. Pluske Improving welfare and production in the peri-weaning period: Effects of co mingling and intermittent suckling on the stress response, performance behaviour, and gastrointestinal tract carbohydrate absorption in young pigs *Livestock Science*, http://dx.doi.org/10.1016/j.livsci.2017.07.006

This is a PDF file of an unedited manuscript that has been accepted fo publication. As a service to our customers we are providing this early version o the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain

ACCEPTED MANUSCRIPT

Improving welfare and production in the peri-weaning period: Effects of co-mingling and intermittent suckling on the stress response, performance, behaviour, and gastrointestinal tract carbohydrate absorption in young pigs

D. L. Turpin^{1*}, P. Langendijk², C. Sharp¹, J.R. Pluske¹

¹School of Veterinary and Life Sciences, Murdoch University, Murdoch, WA, 6150, Australia
²Trouw Nutrition, Veerstraat 38, Boxmeer, 5831 JN, The Netherlands
*Corresponding Author: Tel.: +61 411795020. D.Turpin@murdoch.edu.au

Abstract

We investigated the effect of different pre-weaning interventions on performance, aspects of behaviour, and selected neuroendocrine, inflammatory and immune indices in 593 weanling pigs (59 litters, weaning age 22 ± 1.7). Measurements were taken at various time points two weeks before and after weaning. Sugar absorption tests (20% mannitol and 20% galactose solutions?) were used to assess gastrointestinal tract (GIT) absorptive capacity. One week before weaning, litters were either co-mingled (CoM) for 8 hours daily with another litter or not co-mingled (NoCoM). Half of the litters were also subjected to intermittent suckling (IS) involving separation from their sow for 8 hours daily and the other half remained with their sow (NoIS). Hence, four treatments were produced in a 2x2 factorial design; (1) CoM IS (n = 16 litters), (2) CoM NoIS (n = 14litters), (3) NoCoM IS (n = 16 litters), (4) NoCoM NoIS (n = 13 litters). Measurements are compared within each of the main effects (CoM or IS) unless otherwise stated. Acute Download English Version:

https://daneshyari.com/en/article/5543002

Download Persian Version:

https://daneshyari.com/article/5543002

Daneshyari.com