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## Uterine size in replacement gilts associated with age, body weight, growth rate, and reproductive status

P. Tummaruk, S. Kesdangsakonwut

<https://doi.org/10.17221/7732-CJAS>

Citation: Tummaruk P., Kesdangsakonwut S. (2014): Uterine size in replacement gilts associated with age, body weight, growth rate, and reproductive status. *Czech J. Anim. Sci.*, 59: 511-518.

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The objective of the present study was to determine the association between the uterine size and age, body weight, growth rate, and reproductive status in Landrace × Yorkshire crossbred gilts. Genital organs from 310 gilts (302.6 ± 2.9 days of age, 145.2 ± 1.2 kg body weight) were examined. The gilts were classified into two groups according to reproductive status: non-cyclic (n = 86) and cyclic (n = 224). The uterine weight in non-cyclic gilts was lower than that in cyclic ones (128 ± 8.1 and 694 ± 17.9 g, P < 0.001). Likewise, the length of the uterus in non-cyclic gilts was shorter than that in cyclic gilts (123 ± 2.9 and 252 ± 4.6 cm, P < 0.001). The weight of the uteri correlated with the body weight (r = 0.48, P < 0.001) and growth rate (r = 0.33, P < 0.001) of the gilts but not with their age (P > 0.05). For every 10 kg increase in the body weight of the gilts, an increase of 67 g in uterine weight (P < 0.001) and 21 cm in uterine length (P < 0.001) was observed.

**Keywords:**

pig; reproduction; puberty; uterus

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