

EFFECT OF BULL SEMEN THAWING METHODS ON SPERM PROGRESSIVE MOTILITY

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ABSTRACT The objective of this study was to examine the effect of semen thawing method on sperm progressive motility rate. Ninety six frozen semen straws from one bull were allocated to four treatment groups (n= 24 per group) in completely random design. Treatments were thawing in warm water at 37 °C for 30 seconds (GR1), 30 °C for 30 seconds (GR2), 25 °C for 30 seconds (GR3) and hand surface temperature for 30 seconds (GR4). Each semen straw was evaluated for progressive motility of sperm after thawing. The difference of sperm progressive motility rate between treatment groups was analyzed by analysis of variance with SAS (PROC GLM) program. The result presented that thawing methods significantly influenced on sperm progressive motility rate ($p < 0.05$). Semen straws in GR1, GR2, GR3, and GR4 had the rate of sperm progressive motility 51.04 ± 12.33 , 40.41 ± 7.50 , 39.79 ± 10.26 and 10.00 ± 8.20 respectively. Highest and Lowest sperm progressive motility rate was founded in GR1 and GR4 respectively. This study presented that thawing methods had an evidence effect on sperm progressive motility. *Chiang Mai Veterinary Journal 2006;4(1):25-29.*

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