## EFFECT OF BULL SEMEN STRAW LIFTING OVER LIQUID NI-TROGEN ON SPERM PROGRESSIVE MOTILITY

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**ABSTRACT** The objective of this study was to examine the effect of number of lifting and lifting period on semen progressive motility. Ninety frozen semen straws from one bull were randomly allocated to nine groups (n=10 per group) according to number of elevating (No=3, 6 and 9 times) and elevating period (T=3, 5 and 7 seconds) in 3x3 factorial in completely random design. Frozen semen straw was thawed and evaluated for progressive motility of sperm. The difference of sperm progressive motility between treatment groups was analyzed by analysis of variance with SAS(PROC GLM)program. The result presented that the interaction of number of elevating and elevating period influenced on sperm progressive motility (p<0.05).High sperm progressive motility rate was founded in No3T3 (3 times and 3 second), No6T3 and No3T5 groups (50.00±0.00%, 48.83±2.15% and 49.66±1.26% respectively). Low progressive motility was showed in No9T7, No9T5 and No6T7 group (28.33±2.39%, 33.80±4.44%, 33.33±4.01% respectively). This study presented that progressive motility was lower when number of elevating and elevating time increase. **Chiang Mai Veterinary Journal 2006;4(1):11-17**.

Keywords: number of lifting, lifting period, semen progressive motility, semen