

**THAWING TIME INFLUENCE OF FROZEN SEMEN DAIRY COW
STRAW TYPE WHICH WAS TRANSPORTED WITH ICE
TO THE PERCENTAGE OF MOTILITY AND
THE AMOUNT OF LIVE SPERMATOZOA**

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ABSTRACT

The research was made to observe the influence of thawing time to frozen semen dairy cow straw type which transported with ice to the percentage of motility and the amount of live spermatozoa in the Teaching Farm Unair, Gresik.

This research was classified into 6 groups, which are P0 group (control), P1, P2, P3, P4 dan P5 as frozen semen group that transported with ice and verified based on time. P1 thawing was verified at the first 15 minutes, P2 30 minutes, P3 45 minutes, P5 60 minutes, P6 75 minutes. They were all verified microscopically based on the percentage of motility and the amount of live spermatozoa.

The result shown that a significant discrepancy found in thawing time influence of frozen semen dairy cow straw type which was transported with ice was significantly different for motility spermatozoa and for the amount of live spermatozoa ($p < 0,05$), but it was not significantly different for interaction about place and thawing time ($p > 0,05$). Data were analyzed by Analisis of Varian (Univariate ANOVA) and by Turkey test showed the highest point of motility found in P0 (control) with Average and Standart Deviation outdoor P0 $45,00 \pm 0,00$ and the lowest P1, P2, P3, P4 and P5 $29,19 \pm 1,75$; $29,19 \pm 1,76$; $28,66 \pm 2,47$; $28,66 \pm 2,47$; and $28,66 \pm 2,47$. Average and Standart Deviation indoor P0 $45,00 \pm 0,00$ and the lowest P1, P2, P3, P4 and P5 with value $25,62 \pm 1,88$; $27,42 \pm 1,72$; $30,10 \pm 0,12$; $28,28 \pm 1,99$; $27,39 \pm 3,49$. While the highest grade of live spermatozoa observed in P0 control with Average and Standart Deviation outdoor $56,34 \pm 1,99$ and the lowest P1, P2, P3, P4 and P5 with value $35,94 \pm 2,60$; $36,55 \pm 2,22$; $36,02 \pm 4,79$; $35,32 \pm 3,15$; $33,76 \pm 3,60$. Average and Standart Deviation indoor $58,97 \pm 4,02$ and the lowest P1, P2, P3, P4 and P5 $32,49 \pm 3,66$; $33,93 \pm 3,23$; $37,54 \pm 4,36$; $35,18 \pm 6,38$; $33,42 \pm 4,36$. Conclusion of this research the treatment of ice instead of liquid N_2 was not effective since ice decreasing the quality of frozen semen

Key words : spermatozoa, thawing, straw, motility, ice