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1: Theriogenology. 2004 Jun;61(9):1719-27.

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Fertility results after different thawing procedures for ram semen frozen in minitubes and mini straws.

Paulenz H, Soderquist L, Adnoy T, Nordstoga A, Gulbrandsen B, Berg KA.

Team Semin, P.O. Box 8146 Dep., Oslo N-0033, Norway.

The effect of different thawing procedures for ram semen frozen in minitubes and mini straws on the fertility of sheep was tested in a field trial in which 727 Norwegian crossbred ewes, aged between six months and five-and-a-half years from nine farms, were inseminated with frozen-thawed semen in natural estrous. Minitubes were thawed at 70 degrees C for 8s (T70) and mini straws either at 70 degrees C for 5s (S70), 50 degrees C for 9s (S50), or 35 degrees C for 12s (S35). Cervical insemination with [Formula: see text] spermatozoa resulted in 25-day non-return rates of 78.7, 69.0, 73.6, and 72.9% (overall 73.6%), respectively, and lambing rates of 77.6, 66.1, 71.4, and 68.9% (overall 71.0%), respectively. There was a significantly higher lambing rate for T70 compared to S35 ([Formula: see text]) and S70 ([Formula: see text]), respectively, but not compared to S50 ([Formula: see text]). Age of the ewes ([Formula: see text]), farmers ([Formula: see text]) and the interaction between [Formula: see text] type/thawing temperature ([Formula: see text]) had a significant effect on the lambing rate. In conclusion, the superior fertility results achieved for minitubes compared to mini straws have to be carefully evaluated in relation to the possible application of a more rational semen production and simplified semen handling at AI, when using mini straws thawed at 35 degrees C.

PMID: 15019467 [PubMed - in process]

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