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Cryopreservation of Spermatozoa and Artificial Insemination: Past, Present, and Future

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This review article is intended to provide an in-depth analysis of the principles and programs established, as well as problems overcome, that have led to a successful artificial insemination (AI) program using cryopreserved semen in cattle. The components of such a program considered are: semen production, evaluation, processing, storage, and insemination. Advances with cattle and other species of domestic animals may provide clues to mechanisms involved which could lead to methods of improving the cryopreservation of human spermatozoa. Several current developments give hope for substantial improvements in the future.

Key words: cryopreservation, semen quality, bull semen, human semen, semen donors

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