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Authors: [Toppo, Tej Pawan \(/browse?type=author&value=Toppo%2C+Tej+Pawan\)](/browse?type=author&value=Toppo%2C+Tej+Pawan)

Advisor: [Sinha, M. P. \(/browse?type=author&value=Sinha%2C+M.+P.\)](/browse?type=author&value=Sinha%2C+M.+P.)

Title: "STUDIES ON CRYOPRESERVATION AND POSTTHAWED ASSESMENT OF CHHOTANAGPURI RAM SEMEN"

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Abstract: The studies were carried out on seminal ejaculate characteristics and its cryopreservation of Chhotanagpuri rams. The main purpose of this study was to determine the cryotolerance of Chhotanagpuri ram spermatozoa on the basis of post-thaw semen quality. The results obtained have been discussed earlier in detail, the same have been summarized as follows: Seminal characters at pre- freeze stage: 1. The colour of Chhotanagpuri ram semen was found to be creamy or creamy white. 2. The overall mean ejaculate volume, mass motility, sperm concentration and live sperm percentage were found to be 0.56 ± 0.02 ml, 4.28 ± 0.08 , 4210.42 ± 29.00 millions/ml and 84.50 ± 0.65 percent respectively. 3. The overall mean value of intact plasma membrane integrity, intact acrosome status and intact DNA integrity were found to be 78.11 ± 0.63 percent, 83.42 ± 0.75 percent and 89.97 ± 0.38 percent respectively. 4. Mean live percentage, intact plasma membrane integrity, intact acrosome, and intact DNA integrity percentage were significantly higher in neat semen samples than frozen thawed semen. 5. The ejaculate volume was negatively and non significantly correlated with sperm concentration, acrosome status and DNA integrity .The ejaculate volume was significantly ($P<0.05$) and positively correlated with mass motility. It was positively but non significantly correlated with live sperm % and plasma membrane integrity. 6. The mass motility was significantly ($P<0.01$) and positively correlated with sperm concentration, live sperm percentage. Its correlation with acrosome status, plasma membrane integrity and DNA integrity was positive but non significant. 7. The sperm concentration was highly significantly ($P<0.01$) and positively correlated with live sperm percentage whereas it was positively and non significantly correlated with DNA integrity. It was negatively and non significantly correlated with plasma membrane integrity and acrosome status. 8. The live sperm percentage was significantly ($P<0.05$) and positively correlated with plasma membrane integrity. It was positively but non significantly correlated with DNA integrity and acrosome status. 9. The plasma membrane integrity was non significantly and positively correlated with acrosome status and DNA integrity. 10. The acrosome status was positively and non significantly correlated with DNA integrity. Post- thaw characters: 11. The overall mean value of semen progressive motility and live proportion were found to be 46.33 ± 0.36 percent and 61.53 ± 0.76 percent respectively. The values did not vary significantly between the rams. 12. The overall mean value of intact plasma membrane integrity, intact acrosome status, and intact DNA integrity were found to be 69.66 ± 0.67 percent, 70.94 ± 0.79 percent and 74.58 ± 0.79 percent respectively which did not differ significantly between the rams. 13. The difference between the ejaculate volume, mass motility, sperm concentration, live sperm percentage, plasma membrane integrity, acrosome status, and DNA integrity were found to be non significant among the rams. 14. The plasma membrane integrity was non significantly and positively correlated with acrosome status, live proportion, DNA integrity and also with progressive motility percentage. 15. The acrosome status was positively and non significantly correlated with live proportion, progressive motility percentage and DNA integrity. 16. The DNA integrity was positively and non significantly correlated with live proportion, but non significantly and negatively correlated with progressive motility percentage. 17. The live proportion was positively and non significantly correlated with progressive motility.

Description: "STUDIES ON CRYOPRESERVATION AND POSTTHAWED ASSESMENT OF CHHOTANAGPURI RAM SEMEN"

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