SPERMATOZOA ABNORMALITIES IN LOCAL CHICKENS

Annisa Rahmi[1], Abdullah Baharun[2]

[1], Universitas Djuanda, Indonesia ;
[2], Universitas Djuanda, Indonesia ;
[1]; [2];

Abstract

Background - Indonesia has many various genetic resources in local chickens and needs to be develop. Abnormality spermatozoa is such of a determinant factor in reproduction successes, and it has been no reported about abnormalities type in local chicken spermatozoa in Indonesia.

Purpose - This study aimed to determine spermatozoa abnormalities type in local chickens.

methodology - Three local chicken breeds (merawang, KUB, and kedu hitam) with three roosters for each breed aged 8-12 months. The research method used a Completely Randomized Design (CRD) with 6 repetitions. The parameters observed were macroscopic (volume, color, pH, consistency) and microscopic (mass motility, individual motility, viability and abnormalities) examinations. Spermatozoa abnormality variable differentiated based on primary and secondary abnormalities type.

Findings - Three local chicken breeds (merawang, KUB, and kedu hitam) with three roosters for each breed aged 8-12 months. The research method used a Completely Randomized Design (CRD) with 6 repetitions. The parameters observed were macroscopic (volume, color, pH, consistency) and microscopic (mass motility, individual motility, viability and abnormalities) examinations. Spermatozoa abnormality variable differentiated based on primary and secondary abnormalities type.

Originality - The newest study in this series can be an information source regarding semen quality and spermatozoa abnormalities from several local chickens; then, the development process can be carried out more effectively.

Keywords: local chicken, KUB, kedu hitam, merawang, spermatozoa abnormality