

PENGARUH LINGKAR DAN VOLUME SCROTUM TERHADAP KUALITAS SEMEN SEGAR SAPI BALI

MUHAMMAD TAUFIK KASTELLA

NIM : 13021002

INTISARI*

Penelitian ini bertujuan untuk mengetahui pengaruh lingkaran dan volume skrotum terhadap kualitas semen segar Bali yang meliputi volume semen, pH, konsentrasi, gerakan massa, gerakan individu. Dalam penelitian ini digunakan 20 ekor pejantan sapi Bali. Penelitian ini dilaksanakan pada tanggal 08 Januari sampai tanggal 09 Februari 2018, di Balai Besar Inseminasi Buatan Singosari (BBIB) Kabupaten Malang Jawa Timur. Penelitian ini menggunakan metode observasi dengan pengukuran secara langsung lingkaran dan volume skrotum. Data dianalisis menggunakan regresi linear sederhana. Hasil penelitian ini menunjukkan bahwa tidak berbeda nyata lingkaran dan volume skrotum terhadap kualitas semen sapi Bali. Rerata lingkaran skrotum memiliki volume semen $5,22 \pm 0,671$ ml, pH semen $6,59 \pm 0,33$, konsentrasi $1047,78 \pm 0,293 \times 10^6$ sp/ml, gerakan massa $2,17 \pm 0,388$ (++) , gerakan individu $66,94 \pm 0,769\%$. Dan rerata volume skrotum memiliki, volume semen $5,53 \pm 0,957$ ml, pH semen $6,74 \pm 0,381$, konsentrasi $939,50 \pm 0,967 \times 10^6$ sp/ml, gerakan massa $2,17 \pm 0,113$ (++) , gerakan individu $66,11 \pm 0,389\%$. Disimpulkan bahwa lingkaran dan volume skrotum tidak mempengaruhi kualitas semen segar sapi Bali, yang meliputi (volume semen, pH, konsentrasi, gerakan massa, dan gerakan individu)

(Kata kunci : Lingkaran skrotum, volume skrotum, semen segar, sapi Bali)

^{*)} Intisari Skripsi Mahasiswa Program Studi Peternakan Fakultas Agroindustri Universitas Mercu Buana Yogyakarta, 2018

THE EFFECT OF SCROTAL CIRCUMFERENCE AND VOLUME ON QUALITY OF BALI BULL FRESH SEMEN

MUHAMMAD TAUFIK KASTELLA

NIM : 13021002

Abstract*

This study was aimed to determine the effect of scrotal circumference and semen volume on quality of Bali bull fresh semen which included semen volume, pH, concentration, mass motility, and individual motility. This study was used 20 Bali bulls. This study was conducted on January 8 to February 9, 2018, at Balai Besar Inseminasi Buatan (BBIB) Singosari Malang, East Java. This study uses an observation method by using direct measurement of circumference and scrotal volume. Data were analyzed using the simple linear regression. The results of this study was indicated that there was no significant difference about circumference and scrotal volume to quality of Bali bull semen. The average of scrotal circumference had $5,22 \pm 0,671$ ml, of semen volume, $6,59 \pm 0,33$ of pH, $1047,78 \pm 0,293 \times 10^6$ sp/ml, of concentration, $2,17 \pm 0,388$ (++) of mass motility. And the average of scrotal volume has $5,53 \pm 0,957$ ml of semen volume, $6,74 \pm 0,381$ of semen pH, $939,50 \pm 0,967 \times 10^6$ sp / ml, of concentration, $2,17 \pm 0,113$ (++) of mass motility, and $66,11 \pm 0,389\%$ of individual motility. It concluded that circumference and scrotal volume did not affect to the quality of Bali bull fresh semen, which included (semen volume, pH, concentration, mass motility, and individual motility).

(Key words : scrotal circumference, scrotal volume, fresh semen, Bali bull)

*Abstract Thesis of S1 Animal Husbandry Study Program Students, Faculty of Agroindustry, Mercu Buana University Yogyakarta, 2018