

Evaluation of Stallion Sperm Concentration by Two Different Methods and its Influence on Sperm Motility Assessment

Katarina Souskova, Radek Filipcik, Zuzana Reckova

References

- Amann, R.P. (1989) Can the Fertility Potential of a Seminal Sample Be Predicted Accurately. *Journal of Andrology*, 10(2), 89–98.
- Amann, R.P. and Waberski, D. (2014) Computer-assisted sperm analysis (CASA): Capabilities and potential developments. *Theriogenology*, 81(1), 5–17.
- Aurich, J.E. (2012) Artificial Insemination in Horses – More than a Century of Practise and Research. *Journal of Equine Veterinary Science*, 32(8), 458–463.
- Broekhuijse, M.L.W.J. (2011) Additional value of computer assisted semen analysis (CASA) compared to conventional motility assessments in pig artificial insemination. *Theriogenology*, 76(8), 1473–1486.
- Didion, B.A. (2008) Computer-assisted semen analysis and its utility for profiling boar semen samples. *Theriogenology*, 70(8), 1374–1376.
- Heckenbichler, S. et al. (2011) Quality and fertility of cooled-shipped stallion semen at the time of insemination. *Theriogenology*, 75(5), 849–856.
- Jequier, A.M. and Ukombe, E.B. (1983) Errors Inherent in the Performance of a Routine Semen Analysis. *British Journal of Urology*, 55(4), 434–436.
- Kenneth, A. et al. (1990) The influence of chamber characteristics on the reliability of sperm concentration and movement measurements obtained by manual and videomicrographic analysis. *Fertility and sterility*, 53(5), 882–887.
- Knuth, U.A. and Nieschlag, E. (1988) Comparison of computerized semen analysis with the conventional procedure in 322 patients. *Fertility and sterility*, 49(5), 881–885.
- Kuster, Ch. (2005) Sperm concentration determination between hemacytometric and CASA systems: Why they can be different. *Theriogenology*, 64(3), 614–617.
- Lannou, D.L. et al. (1992) Effects of chamber depth on the motion pattern of human spermatozoa in semen or in capacitating medium. *Human Reproduction*, 7(10), 1417–142.
- Lu, J.C. et al. (2013) Computer-aided sperm analysis: past, present and future. *Andrologia*, 45(1), 1–10.
- Malmgren, L. (1997) Assessing the quality of raw semen: a review. *Theriogenology*, 46(3), 523–530.
- Mortimer, D. et al. (1995) Workshop Report: Clinical CASA – the Qest for Consensus. *Reproduction, fertility and development*, 7(5), 951–959.
- Mortimer, S.T. et al. (2015) The future of computer-aided sperm analysis. *Asian Journal of Andrology*, 17(2), 545–553.
- Prathalingam et al. (2006) The Precision and Accuracy of Six Different Methods to Determine Sperm Concentration. *Journal of Andrology*, 27(2), 257–262.
- Rečková, Z. and Filipčík, R. (2020) An Analysis of Selected Aspects of Sperm Quality in Fresh and Cooled-Storage Stallion Semen. *Iranian Journal of Applied Animal Science*, 10(3), 405–408.
- Sokol, R.Z. et al. (2000). Comparison of two methods for the measurement of sperm concentration. *Fertility and sterility*, 73(3), 591–594.
- Spiropoulos, J. (2001). Computerized semen analysis (CASA): Effect of semen concentration and chambre depth on measurements. *Archives of Andrology*, 46(1), 37–42.
- Varner, D.D. (2008) Developments in stallion semen evaluation. *Theriogenology*, 70(3), 448–462.
- Verstegen, J. et al. (2002) Computer assisted semen analyzers in andrology research and veterinary practice. *Theriogenology*, 57(1), 149–179.
- Věžník, Z. (2004) Repetitorium of spermatology and andrology and methods of spermatoanalysis. Brno: Research Institute of Veterinary Medicine.
- WHO. (1999) WHO laboratory manual for the Examination and processing of human semen. 4th ed. Cambridge: Cambridge University Press.

