

Abstract

Comparison methods of calculating the concentration of spermatozoa for infertile patients in Andrology clinic RSUD dr Soetomo

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OBJECTIVE: The aim of this study was to know the different between the metod of Neubauer as a Gold standar (WHO), Leja, and Makler Chamber to counting sperm concentration for the best result for assesing male Infertility

METHOD: The design of reserch was observational analytic laboratory study, performed on patient who came to dr Soetomo hospital, Surabaya in the period Oktober until Desember 2014. Researchers examined the concentration spermatozoa from patient and examine with three metods: Neubauer, Leja, Makler Chamber and then compare also looking the cut off from the three metods

RESULTS: The results, a total of patients who sperm concentration examine with Neubauer, Makler chamber, Leja for three months at dr Soetomo hospital from oktober to december 2014 as many as 60 patients taken his Sperm and cheking sperm concentration with Neubaur, Makler chamber, Leja.

The results of statistical analysis found that there is significant between three metods that we examine. In the category Extreem oligo astheno terato zoospermia, there are significant differences between Neubauer method Makler method and the method Leja ($p < \alpha$), whereas no significant difference Makler methods with methods Leja ($p > \alpha$). Similar results were shown by category oligo astheno terato zoospermia and normo zoospermia. In the third category zoospermia astheno terato measurement method showed a significant difference.

CONCLUSIONS: the measurement of the concentration of spermatozoa selection of the most appropriate was to use Neubauer

Key words: Sperm consentration , Neubauer, Makler Chamber, Leja