

Gamete Alert

New Perception to define the functional Ability of Human Sperm Subpopulations and Association with Semen Quality

This study focused at differentiation between the comprehensive set of functional as well as structural sperm characteristics and sperm motility fractions and correlate each fraction's results to the standard semen parameters. In this non-invasive experimental study, 55 human semen samples were obtained and were separated via double density gradient method, segregate a high and low motile sperm fraction and then evaluated the percentage of mature spermatozoa, motility, chromatin integrity, vitality, acrosome reaction, hyper-activation and all the standard parameters recommended by WHO laboratory manual. This study concluded that separating the same donor semen samples into two significantly diverse motility sperm fractions could be a potential model in mimicking the qualities of fertile and sub-fertile males' sperm populations. Therefore, they suggested that neat semen samples should be separated into sperm subpopulations for the clinical and research purposes to improve the sperm subpopulations from males with different fertility status.

New Approaches to Define The Functional Competency of Human Sperm Subpopulations and Its Relationship to Semen Quality

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