

Sperm DNA fragmentation on normozoospermic patients

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Background: The aim of the present study was to determinate the incidence of sperm DNA fragmentation in normozoospermic patients.

Methods: Prospective study conducted at the Laboratory of Andrology "Gestar In Vitro" (Chiclayo – Perú). 495 patients were analyzed from September 2013 to September 2017. The semen samples were analyzed according to the criteria WHO 2010. The Index Sperm DNA fragmentation (IFA) was determined using the test Sperm chromatin Dispersion. For determination on the median was used SPSS 22 software.

Results: The patients' ages ranged 17 to 70 years. The means and median were 37.73 and 37 years respectively. The patients were divided into four groups: <30 years, 30-39 years, 40-50 years and ≥50 years. We determined an inverse correlation between


the age and volumen ($r=-0.134$ $P=0.000$), progressive motility ($r=-0.136$ $P=0.000$), normal morphology ($r=-0.101$ $P=0.008$), vitality ($r=-0.167$ $P=0.000$). We determined a significant positive correlation between age and IFA ($r=0.302$ $P=0.000$). Patients ≥ 45 years showed higher levels of IFA (23.5% vs. 16% $P=0.000$) compared with patients <45.

Conclusions: The results indicate that advanced age affects semen quality and increases the IFA.

Speaker Biography

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