Study of Hydro-Alcoholic Extract of Asparagys Root (Asparagus Officinalis) On Testes Spematoxods Indexes in Laboratory Mouse

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Abstract : Infertility is a more important problem in modern world. In the Western countries data showed that one couple from eight couples is infertile in human populaton. Role of male in infertility is higher than women e.g., 40%. Abnormal spermatozoid production, genital ducts abstraction, genital systemflammation and disorder of erection are more important factor for male population infertility. Iranian Asparagus (Asparagus officinalis) are used in Iranian traditional medicine as narcotic material for treatment of rheumatoid, headache, sexual inability and acute inflammation. In this survey, effect of asparagus root was studied on spermatozoid index in laboratory mouse. For this reason, hydro-alcoholic extract of asparagus root is prepared and examined on four group of mature male mouse. Blank group without extract, 100 ml/kg dose group, 200 ml/kg dose group and, 300ml/kg dose group. Then, mice are euthanized and testes are removed. Spermatozoids are going out from tail of epididymis and swim up in Ham's F10 tissue culture media. This research results were appeared that there are significant different (P<0.05) between 200 and 300 ml/kg with another treatment groups. Therefore, Aparagus root extract have can be to cause enhancement of spermatozoid quality and fertility improvement in laboratory mouse.

Keywords : histology, asparagus, testes, spermatozoid

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