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Thesis Title	The Role of Serological Markers (CA-125,CA19-9) and IL-6 in Endometriosis		
Year	2013		
Abstract	<p><u>Background:-</u> Endometriosis is a common chronic gynecologic disorder characterized by the presence and proliferation of functional endometrial gland and stroma outside the uterine cavity, affecting approximately 10% of reproductive age women. It is one of the most complicated and baffling disease with debilitating symptoms of cyclical pelvic pain, which may render the patients life unbearable if left untreated.</p> <p>Endometriotic women with stage I or II (mild to moderate) may have more painful symptoms than a women with stage III or IV. there is some evidence that mild to moderate endometriosis may be the more active forms of the disease.</p> <p>Therefore, the ability to diagnose endometriosis more easily, using less invasive means (marker), would be of great value, particularly if the same biomarker could be used to monitor treatment efficacy.</p> <p><u>Aim of study:-</u> To evaluate the efficacy of serum CA-125, CA19-9 and IL-6 levels in the diagnosis of endometriosis and their uses in measuring the severity of the disease.</p> <p><u>Materials and methods:-</u> This study was applied on 51 women with endometriosis (20 newly diagnosed and 31 treated cases) and 33 apparently healthy women. All individuals were subjected to blood sampling for measuring their serum CA-125, CA19-9 and IL-6 by using ELISA technique.</p> <p><u>Results:-</u> Our study shows that endometriosis patient mainly presented at age between 28-37 (54%), 61% of them presented with chronic pelvic pain while the other (39%) presented due to infertility.</p> <p>Serum levels of CA-125 and CA19-9 were significantly elevated in patients with endometriosis mainly those at stage III and IV and that there were much less in treated patients when compared to non treated group.</p> <p>Serum IL-6 level was significantly decrease in those with stage IV endometriosis. IL-6 has 100% specificity while CA-125 has a higher</p>		

sensitivity.

Conclusion:-

Serum CA-125 and CA19-9 were positively correlated with severity of endometriosis. Reduction in serum IL-6 concentration seems to be the highly specific .

Key words:-

Endometriosis ,tumor markers, CA-125, CA19-9, IL-6.