P450Arom induction in isolated control endometrial cells by peritoneal fluid from women with endometriosis

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Objective: To study the effect of peritoneal fluid from women with (PF-E) and without (PF-C) endometriosis on P450Arom expression in endometrial cells. Design: Experimental study. Setting: University research unit. Patient(s): Forty women of reproductive age with (n = 22) or without (control; n = 18) endometriosis. Intervention(s): Peritoneal fluid and eutopic endometrial samples were obtained during surgery from women with (n = 13 and 9, respectively) and without (n = 4 and 14, respectively) endometriosis. Main Outcome Measure(s): Expression study for P450Arom, steroid factor 1 (SF-1), chicken ovalalbumin upstream transcription factor I (COUP-TFI), and COUP-TFII messenger RNA (reverse transcriptase-polymerase chain reaction) and/or protein (immunoblot) in isolated endometrial epithelial cells transfected or not with expression vector containing SF-1, COUP-TFI, or COUP-TFII complementary DNAs. Result(s): Basal messenger RNA and/or protein expression of P450Arom and SF-1 were augmented in