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mRNA expression of chemokines, cytokines and growth factors in epithelial ovarian cancer FIGO stage IIIC microenvironment versus normal tissue: Interim analysis

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Objective: We evaluated, in epithelial ovarian cancer, mRNA expression of CXCL12 (C-X-C Motif Chemokine Ligand 12), CXCR4 (C-X-C Motif Chemokine Receptor 4), CXCL8 (C-X-C Motif Chemokine Ligand 8), CXCL11 (C-X-C Motif Chemokine Ligand 11), CXCR7 (Atypical chemokine receptor 3), VEGF (Vascular endothelial growth factor), TNF (Tumor necrosis factor), IL1(Interleukin-1), OPN (Osteopontin) and TGFB (transforming growth factor beta) in epithelial ovarian cancer.

Setting: The following research work was set up at Tertiary Cancer Centre.

Method: The method carried involved prospective study from women FIGO stage III submitted to primary surgery, fresh samples of ovarian cancer (OC) and their normal counterpart (N) from normal peritoneum were obtained. All samples were histologically assessed. Total RNA was isolated with TRI Reagent, and reverse-transcribed into cDNA. A Real-Time PCR using SYBR Green I as detection dye for 18S, CXCL12, CXCR4, CXCL8, CXCL11, CXCR7, VEGF, TNF, IL1, OPN, TGFB genes was conducted.

Results: Nine samples were analysed. OC vs N showed: 100% up-regulation of CXCL12 mRNA expression (P<.01), 89% up-regulation of CXCR4 mRNA expression (P=NS), 89% up-regulation of CXCR7 mRNA expression (P=.09); 89% down-regulation of CXCL11 mRNA expression (P=.03), 67% up-regulation of CXCL8 mRNA expression (p=NS), 100% down-regulation of MIF mRNA expression (P<.01), 100% down-regulation of OPN mRNA expression (P<.01), 78% down-regulation of SPARC mRNA expression (P=NS) and 70% down-regulation of VEGF mRNA expression (P=NS), respectively.

Conclusions: These data are very intriguing to suggest further study with a greater sample size on microenvironment of ovarian cancer.

Biography

Raffaella Giannice graduated in Medicine at University La Sapienza of Rome, in Italy. She has specialised in Obstetrics and Gynaecology at the Catholic University of Sacred Heart A Gemelli of Rome, (Italy). She completed her PhD in Obstetrics and Gynaecologic Science from University of Parma and her PhD in Gynaecologic Oncology at University of Milan La Bicocca (Italy). She is a permanent Consultant in Gynaecology and Obstetrics at ASST SS Paolo e Carlo Hospital of Milan and temporarily Honorary Consultant at Oxford University Hospital NHS. She has published more than 40 papers in reputed national and international journals.

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