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Accuracy of CT-scan versus laparoscopy and laparotomy on large bowel involvement in stage III-IV advanced epithelial ovarian cancer (aoc), a multicentric prospective trial

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Objective: The aim is to evaluate, in advanced stage epithelial ovarian cancer (AOC), the accuracy of large bowel involvement detection by pre-operative CT scan alone or combined with laparotomic (LPT) and/or laparoscopic findings (LPS).

Material & Methods: We enrolled 177 women with primary, recurrent or persistent AOC to have Visceral-Peritoneal Debulking (VPD). Sensibility (SE), Specificity (SP), Positive Predictive Value (PPV) and Negative Predictive Value (NPV) of CT scan, laparoscopy and laparotomy in detecting large bowel involvement were calculated comparing with final histology (FI). Chi-square test was used to compare statistical analysis (P value ≤ 0.05 was considered statistically significant).

Result: CT scan versus FI showed 58% SE and 69% SP rate. CT scan alone showed a higher SE and lower SP for mucosal compare to muscular and serosal involvement. LPS vs FI and LPT vs FI showed a SE of 89% and 96% respectively, and a SP of 86% and 74% respectively. CT scan plus LPS vs CT scan alone had an increased SE (90% vs. 58%; $p < .001$) and increased SP (85% vs. 68%, $p < .001$). CT scan plus LPT vs CT scan alone showed an increase SE (97% vs. 58%; $p < .001$) and SP (75% vs. 69%, $p = .006$). CT scan plus LPS and LPT vs CT scan alone had an increased SE (96% vs. 58%; $p < .001$) and SP (79% vs. 69%, $p = .006$).

Conclusions: CT scan matched both with LPS and LPT reports can increase SE and SP of large bowel involvement detection and help to estimate more precisely eligible patients to total large bowel surgery.

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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