

Original Article



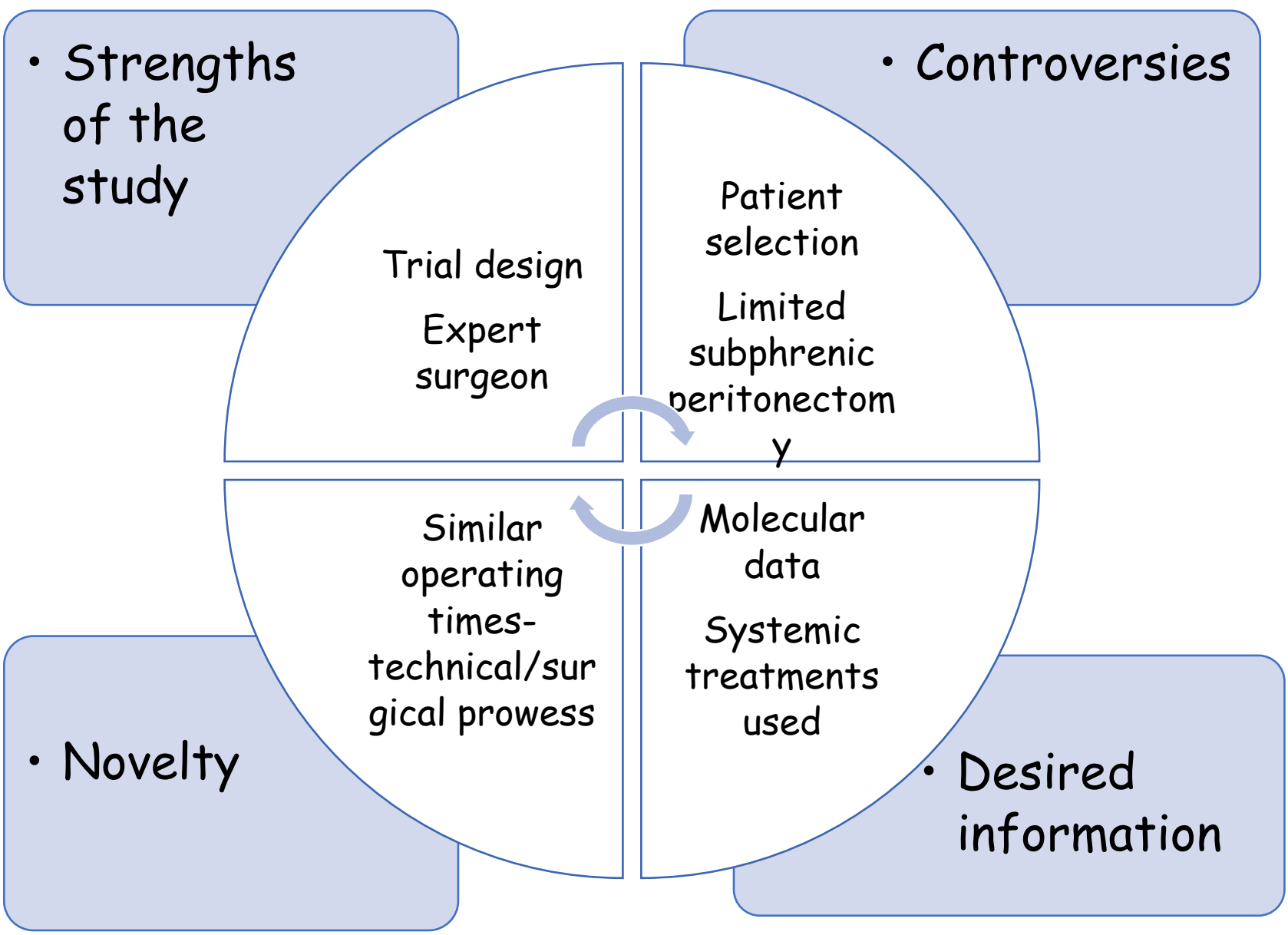
Feasibility of laparoscopic Visceral-Peritoneal Debulking (L-VPD) in patients with stage III–IV ovarian cancer: the ULTRA-LAP trial pilot study

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• Strengths of the study

• Controversies

Trial design
Expert surgeon

Patient selection
Limited subphrenic peritonectomy

• Novelty

• Desired information

Similar operating times-technical/surgical prowess

Molecular data
Systemic treatments used

Strengths of the study

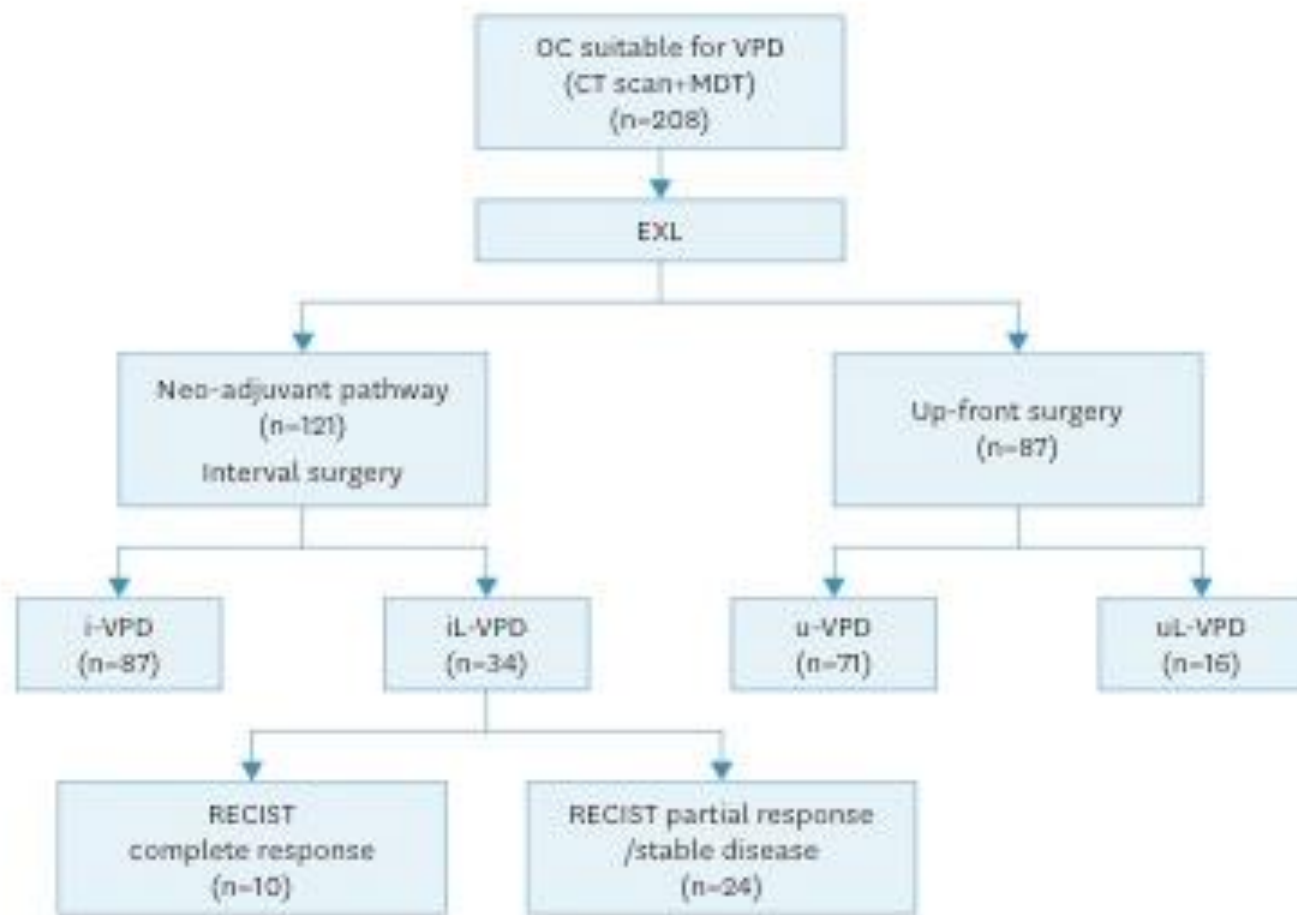


Fig. 1. Patient's flow-chart of the ULTRA-LAP trial pilot study.

CT, computed tomography; EXL, exploratory laparoscopy; iL-VPD, interval laparoscopic visceral-peritoneal debulking; i-VPD, interval visceral-peritoneal debulking; MDT, multidisciplinary team; uL-VPD, up-front laparoscopic visceral-peritoneal debulking; u-VPD, up-front visceral-peritoneal debulking; VPD, visceral-peritoneal debulking.

Good approach- to evaluate all patients laparoscopically and start with laparoscopy

Builds the surgeon's experience/ thorough staging

- Skilled surgeon
- Vast experience with all kinds of complex cytoreductive surgeries for ovarian cancer
- Well designed prospective study with pre defined sample size
- Pre-defined criteria for conversion to open surgery

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Laparoscopic cytoreduction After Neoadjuvant ChEmotherapy (LANCE)

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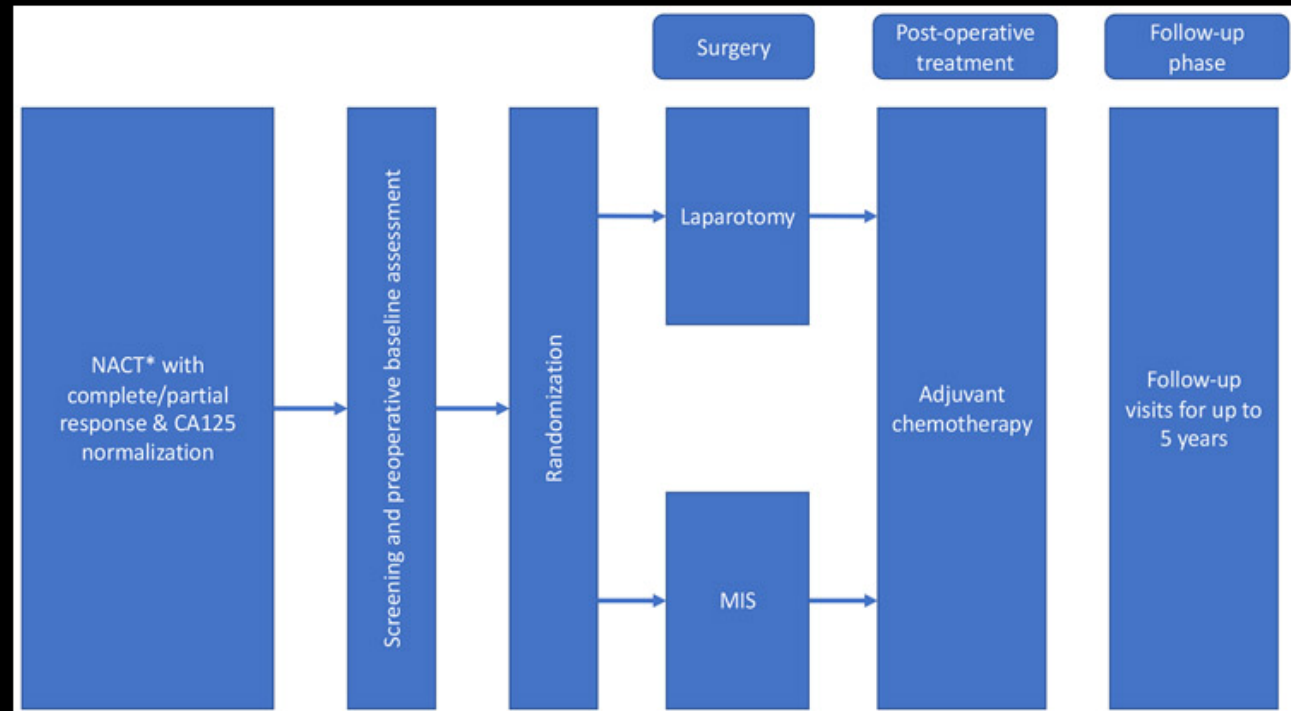
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Figure 1.. Study Schema *Chemotherapy regimen & enrollment on other first-line therapeutic clinical trials will be allowed but will be pre-specified before random assignment. NACT: Neoadjuvant chemotherapy; MIS: Minimally invasive surgery

Novelty

Laparoscopic cytoreductive surgery and hyperthermic intraperitoneal chemotherapy: Long term oncologic outcomes from the international PSOGI registry

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Collaborators, Affiliations + expand

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- Equal operative times between the two groups
- Median LOS- 4 days in I-VPD

- Median LOS- 7 days for CRS with median PCI of 3
- Median LOS-5 days for risk-reducing surgery

Debatable issues

Tozzi classification of diaphragmatic surgery in patients with stage IIIC–IV ovarian cancer based on surgical findings and complexity

Roberto Tozzi , Federico Ferrari , Joost Nieuwstad ,
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Table 2. Eleven steps of diaphragmatic surgery in patients with stage IIIC–IV ovarian cancer according to Tozzi classification

Step	Description	Type I	Type II	Type III
1	Resection of the falciform ligament 3–4 cm ventral to the out spring from the liver	R	R	R
2	Resection of the membranous part of the falciform ligament towards the insertion in the diaphragm	R	R	R
3	Resection of anterior part of the right coronary ligament until the suprarenal impression of the liver		R	R
4	Resection of the posterior part of the right coronary, right triangular and hepato-renal ligament		R	R
5	Resection of the dorsal ligament (hepato-caval) until the inset of the hepatic vein			R
6	Exposure of right and middle hepatic veins +/- encirclement with vessel loop			R
7	Marking the peritoneal disease below the ribs to start ventral peritonectomy	R	R	R
8	Marking the peritoneal disease from the upper part of the paracolic gutter and over the right kidney to start dorsal peritonectomy	R	R	R
9	Incision of the muscle tailored to the extent of the disease			R
10	Repair of the defect with or without a mesh, with a Foley catheter and a Valsalva manoeuvre to restore the negative pressure			R
11	Test to prove the integrity of the diaphragm			R

R, required; VPD, Visceral-Peritoneal debulking.

Patient selection	<ul style="list-style-type: none"> -Not include patients with PS-2 for any kind of surgery -Not include patients with Fagotti score 8 or more for I-VPD; for upfront open or lap surgery I would be cautious -Judge portal involvement on preoperative CT scan
During surgery	<ul style="list-style-type: none"> -Perform a mini -laparotomy and palpation of the colon and small bowel -Use PCI to document the extent of disease -Use the surgical complexity score (SCS) -Complete diaphragmatic peritonectomy even if only the anterior part was involved (Tozzi type 2 or 3) -Use HIPEC after interval cytoreductive surgery
Confirmation of complete tumor removal	<ul style="list-style-type: none"> -Perform systematic laparotomy in all patients after I-VPD and confirm the adequacy of surgery
Evaluation of recurrence	<ul style="list-style-type: none"> -Report biochemical recurrence -Use systematic laparoscopy to document the presence and sites of recurrence (in the operated regions versus elsewhere)

Additional (missing
information)

Table 3. Reasons for conversion to laparotomy (n=158)

Reasons	Value
Diaphragmatic disease extended dorsally	66 (41.8)
Matted spleno-pancreatic disease	27 (17.1)
Gastro-splenic omental disease	22 (13.9)
Multiple bowel segments involvement	19 (12.0)
Omental disease invading/inseparable from the transverse colon	16 (10.1)
Others	8 (5.1)

Values are presented as number (%).

- Patients with large ovarian masses? Difficult pelvis - pelvic side wall involvement
- What about lesser sac involvement, Glisson's capsule involvement, need for mesocolic or small bowel mesenteric peritonectomy?
- Molecular markers
- What about maintenance treatments used
- What prehabilitation and rehabilitation measures do you use
- QOL and survival data

3 questions

- Why did all patients undergoing uVPD have a Fagotti score of 8 or more?
- No patient undergoing l-VPD had recurrence in one year- how do you explain that? What was the rate of pCR?
- What is the learning curve for performing such laparoscopic procedures- how did you evolve as a surgeon: from open to laparoscopic procedures?

Thank you for your attention