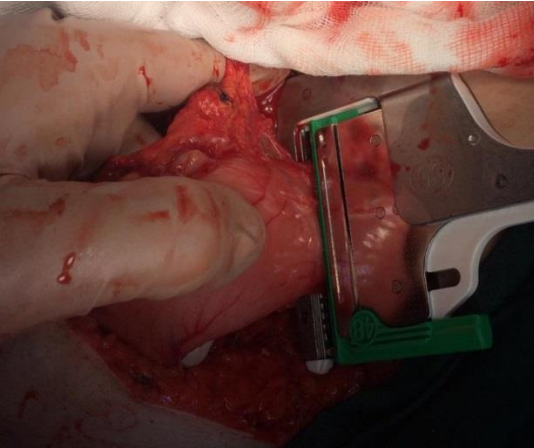
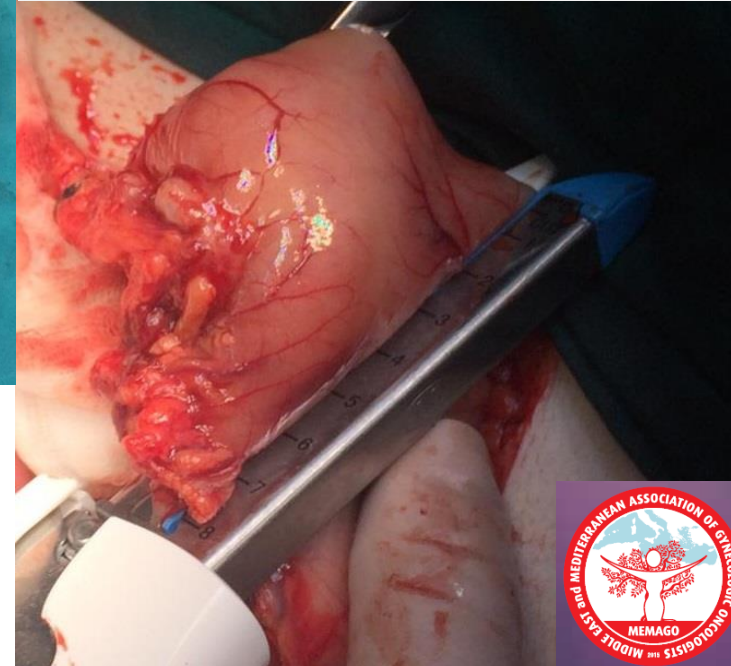
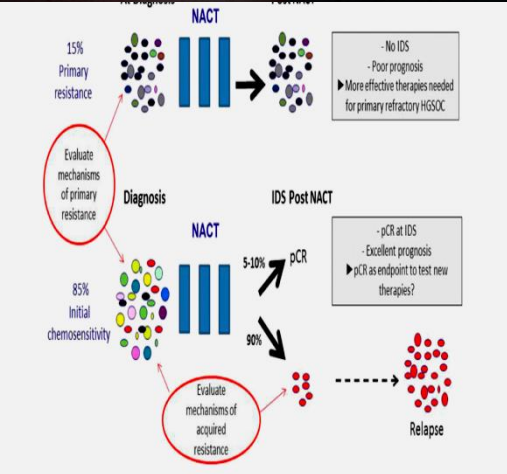
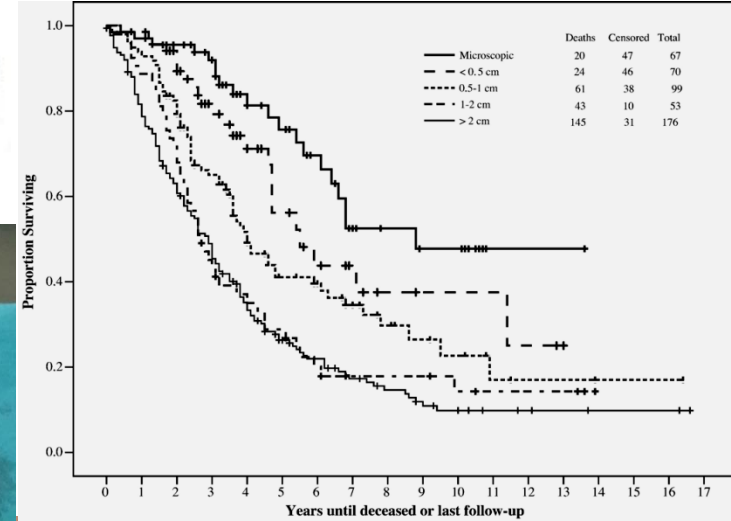
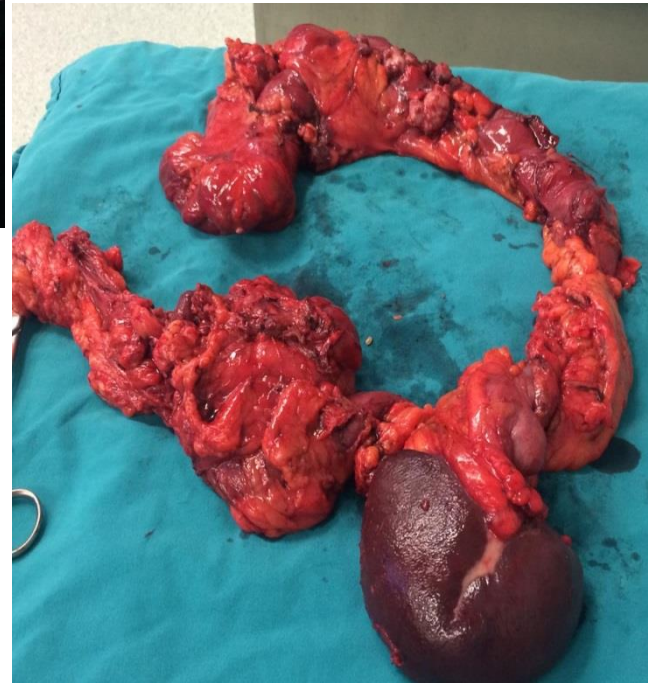


Role of Aggressive surgery in Advanced Stage EOC



ESGO
European Society of
Gynaecological Oncology



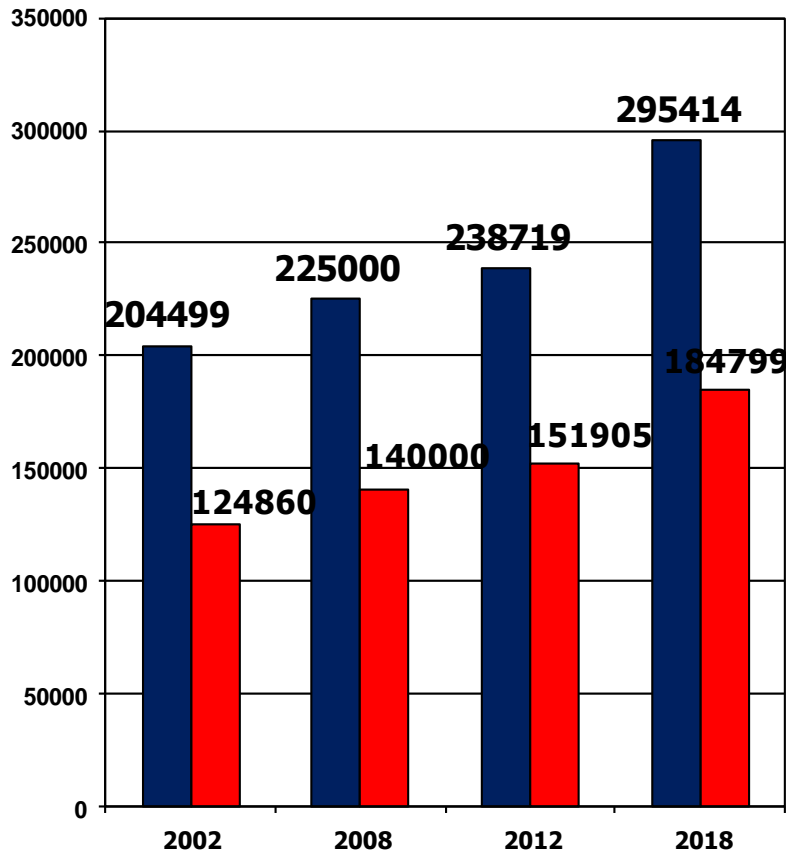
Ayhan Ali, MD

Baskent University School of Medicine
Department of Obstetrics and Gynecology
Division of Gynecologic Oncology

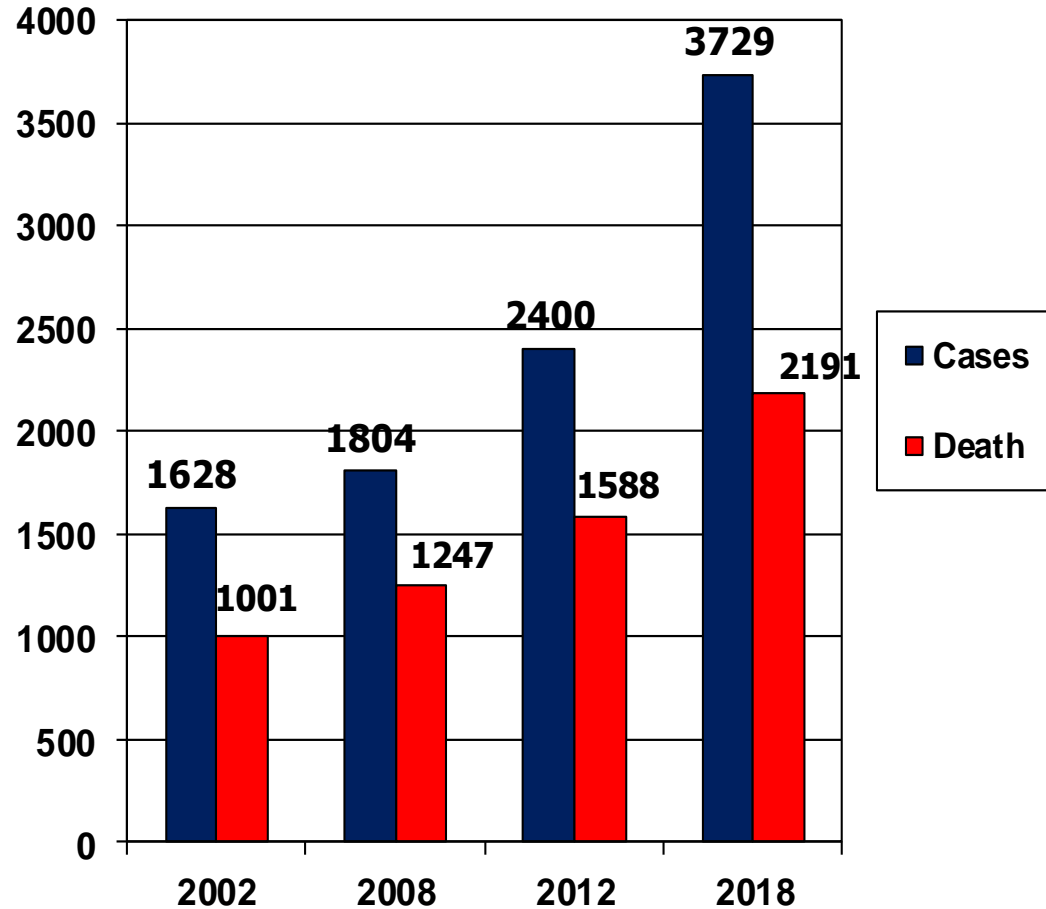


OVARIAN CANCER

World



Turkey



GLOBOCAN

Ovarian Cancer

No effective screening

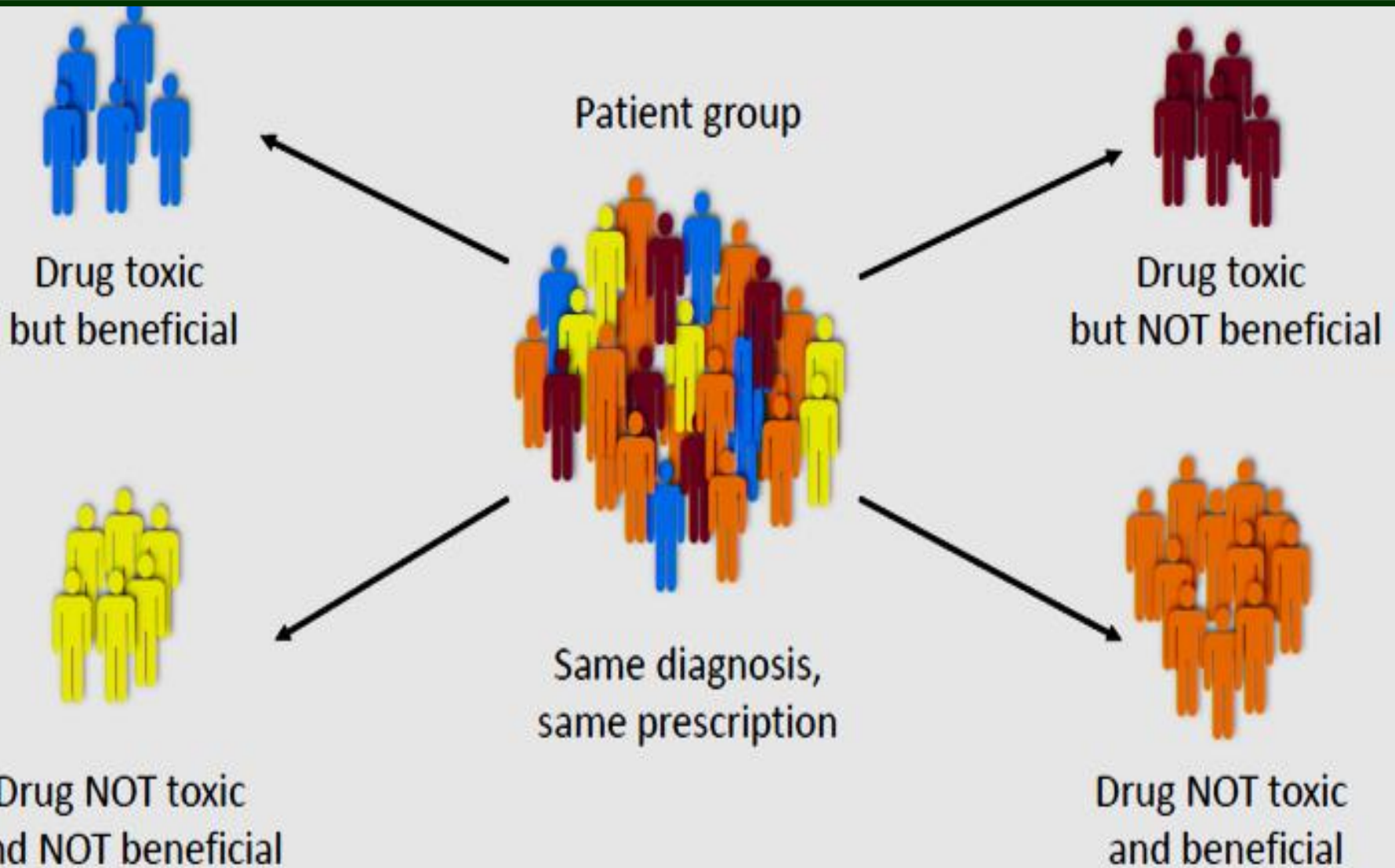
More than 60% stage III-IV

**Gene based risk reduction
surgery (BRCA1/2)**

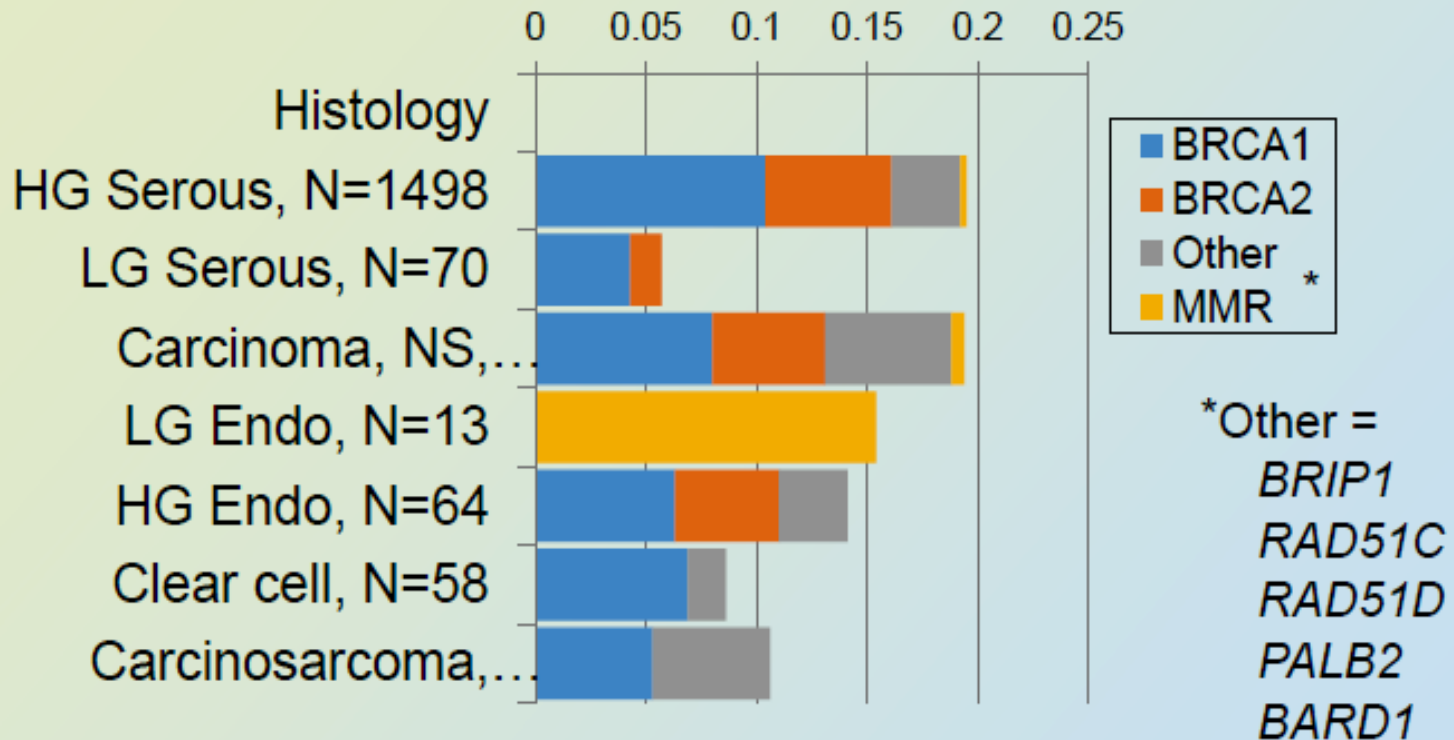
**Aggressive cytoreduction +
chemotherapy(TC)**

Cure rate is 25-30%(5y)

Genomic Profiling, Defining Populations and Determining Clinical Activity of an Agent



OC Mutations by Histology



All women with invasive OC should be offered genetic testing

Therapy depends on:

Patients' factor

(Age, performance)

Tumor factors

(Histology, grade, molecular markers)

Genetic alterations

Surgeon factor

Clinical factors

(Accurate diagnosis, extend of tumor, experienced team, **high-volume hospital**)

Pre-operative work-up

History-Examination

Lab studies

(cyto, chemical marker... etc)

Imaging (evaluation of paranchimal lesions)

L/S (triage)

(Primary or metastatic

**possibility of total resection– Fagotti's,
Bristow's,**

Leuven-Essen criterias)

Currently Standard Upfront Therapy in Advanced stage EOC

Debulking surgery (PRM-INT)

**Aiming to remove all visible
tumor tissue (R0) followed by**

**Adjuvant CT with
Platinum/Taxane ± Bevacizumab**

Surgical Paradigm Shift & GCIG

1980 - 1990



Low abd. and Pelvic Debulking

1990 - 2000



Low-Mid. Abdominal Debulking

2000 - 2010



Upper Abdominal Debulking

2010 - 2017



Extra-Abdominal Debulking

- En bloc resections
- Colectomy
- Ileal resections
- Mesenteric debulking
- Peritonectomy

- Liver resection
- Splenectomy
- Pancreatectomy
- Diaphragm stripping and resection
- Celiac and Portal disease

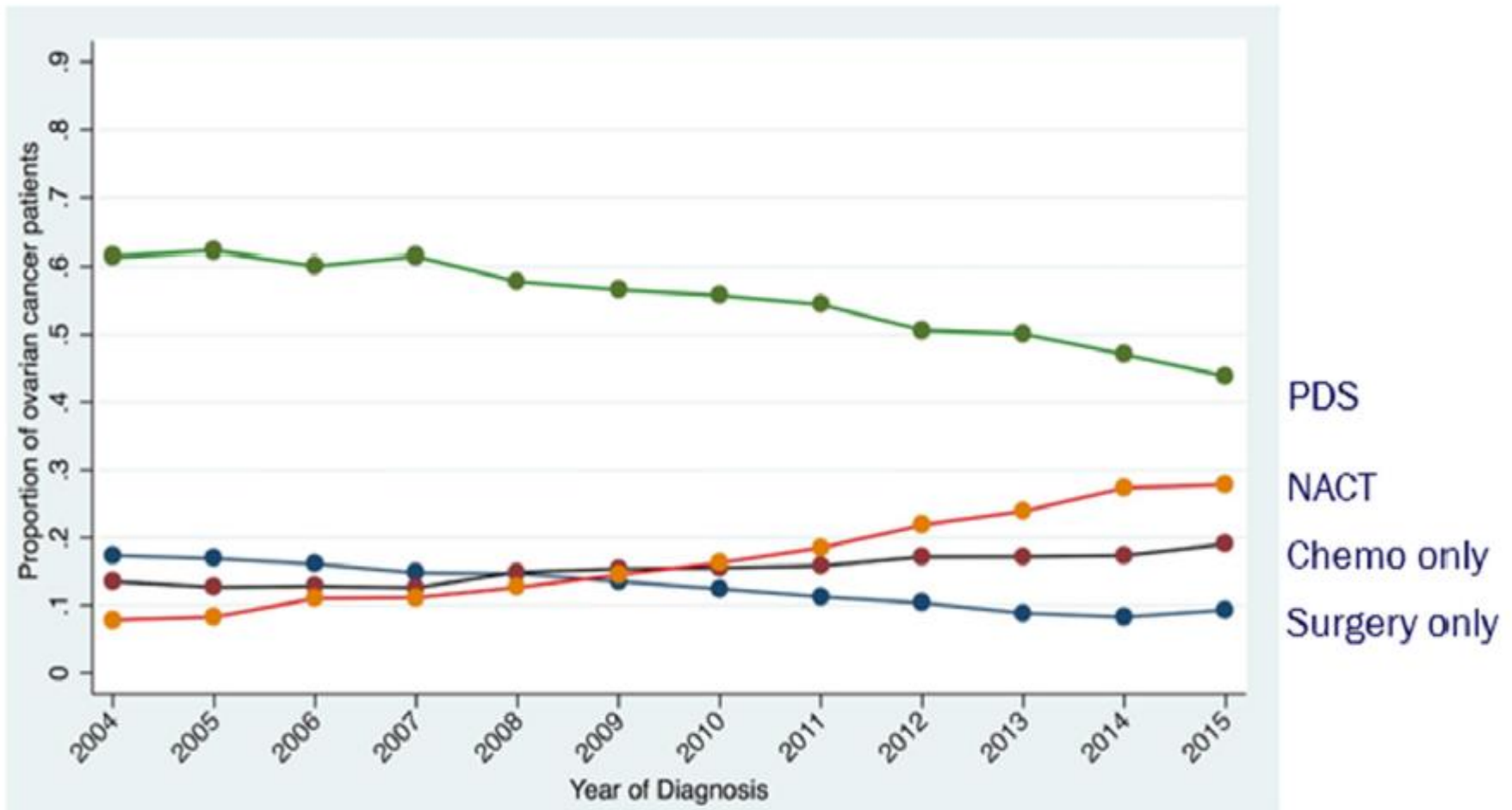
- VATS
- Thoracic debulking
- CPLND

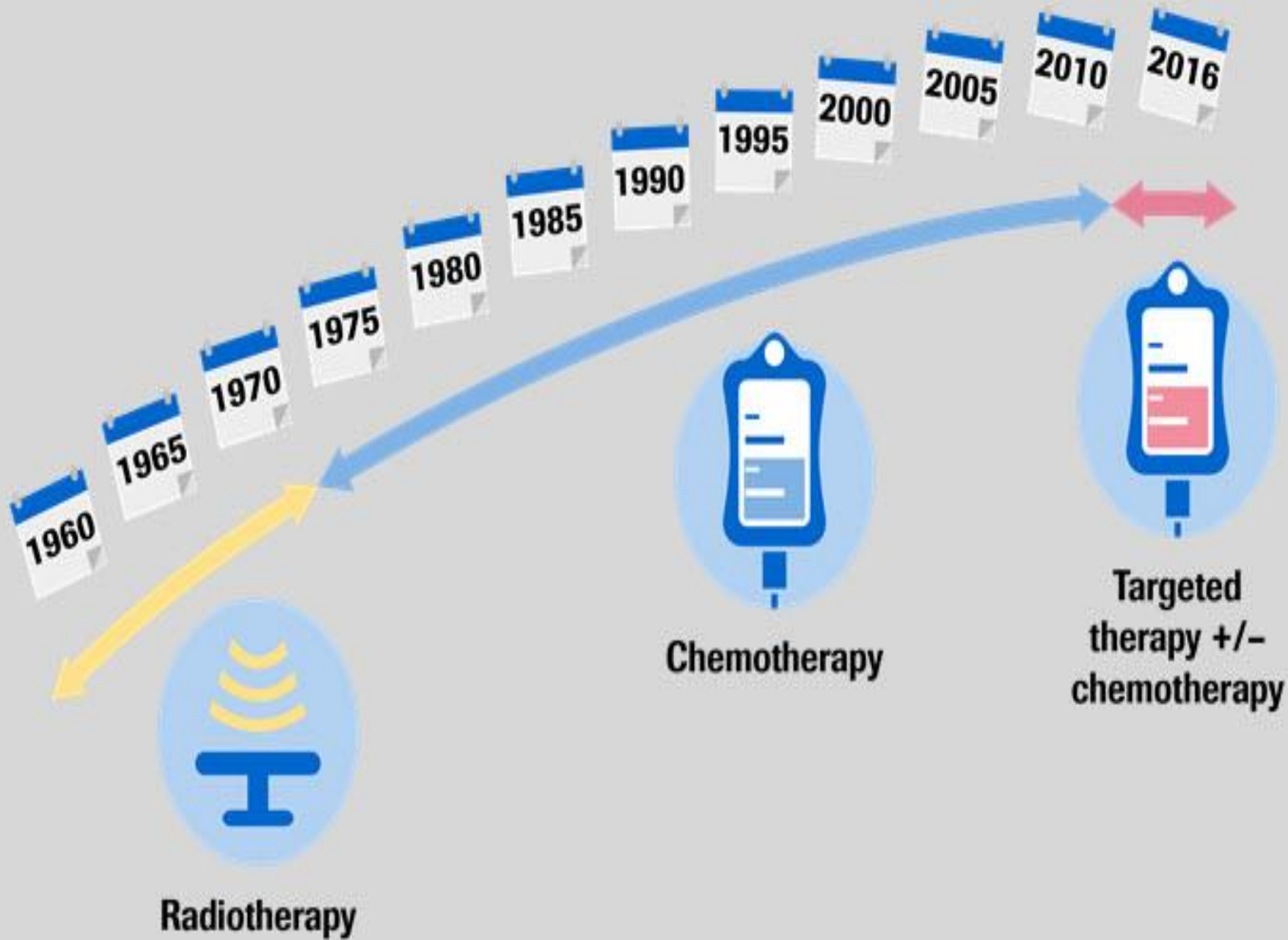
SUBOPTIMAL

MINIMAL RESIDUAL=LESS THAN 1cm optimal

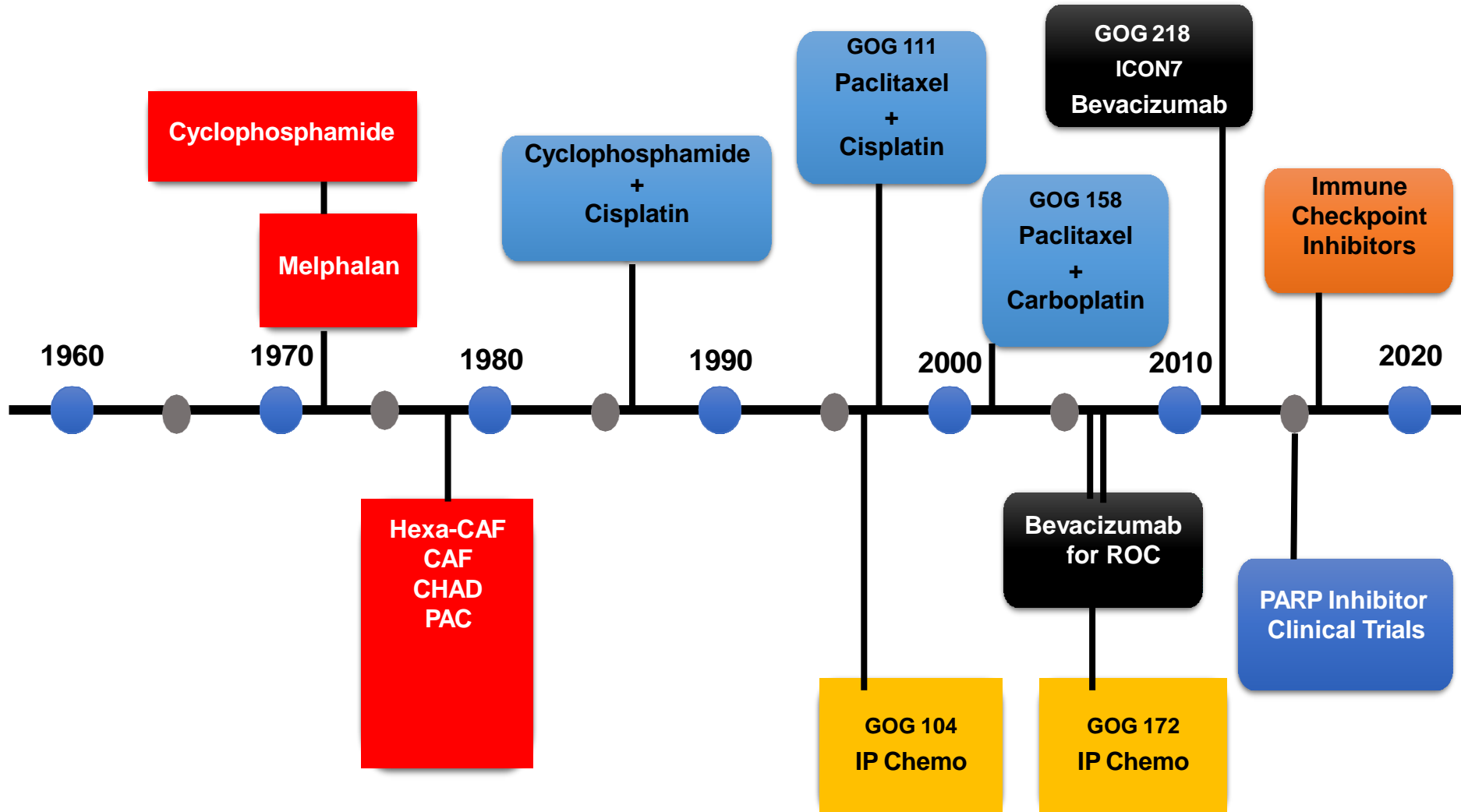
OPTIMAL and finally COMPLETE

Trends in treatment modalities 2004-2015

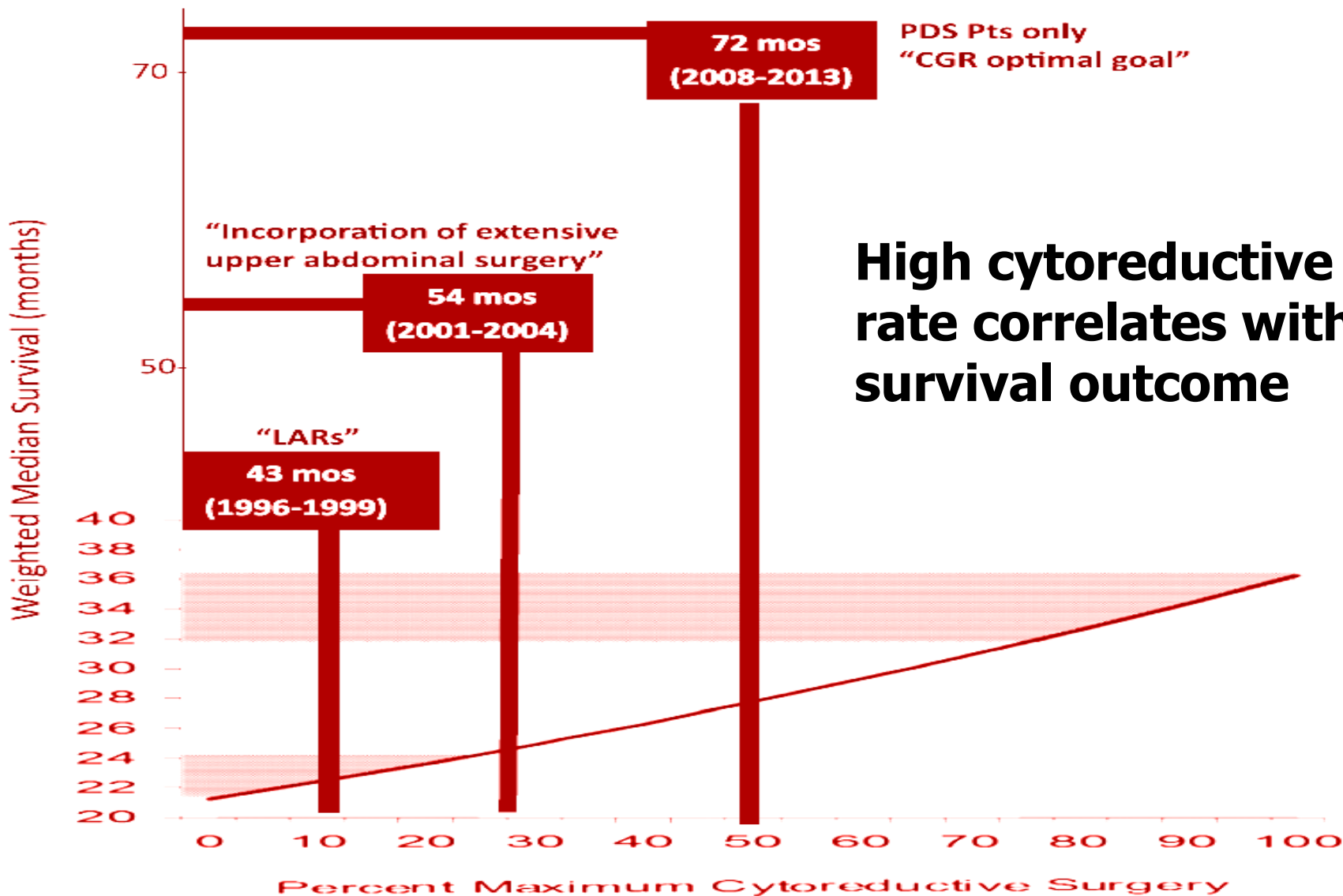




50 Years of Progress in Epithelial Ovarian Cancer Therapy



MSKCC Primary Cytoreduction OS and CGR Rates



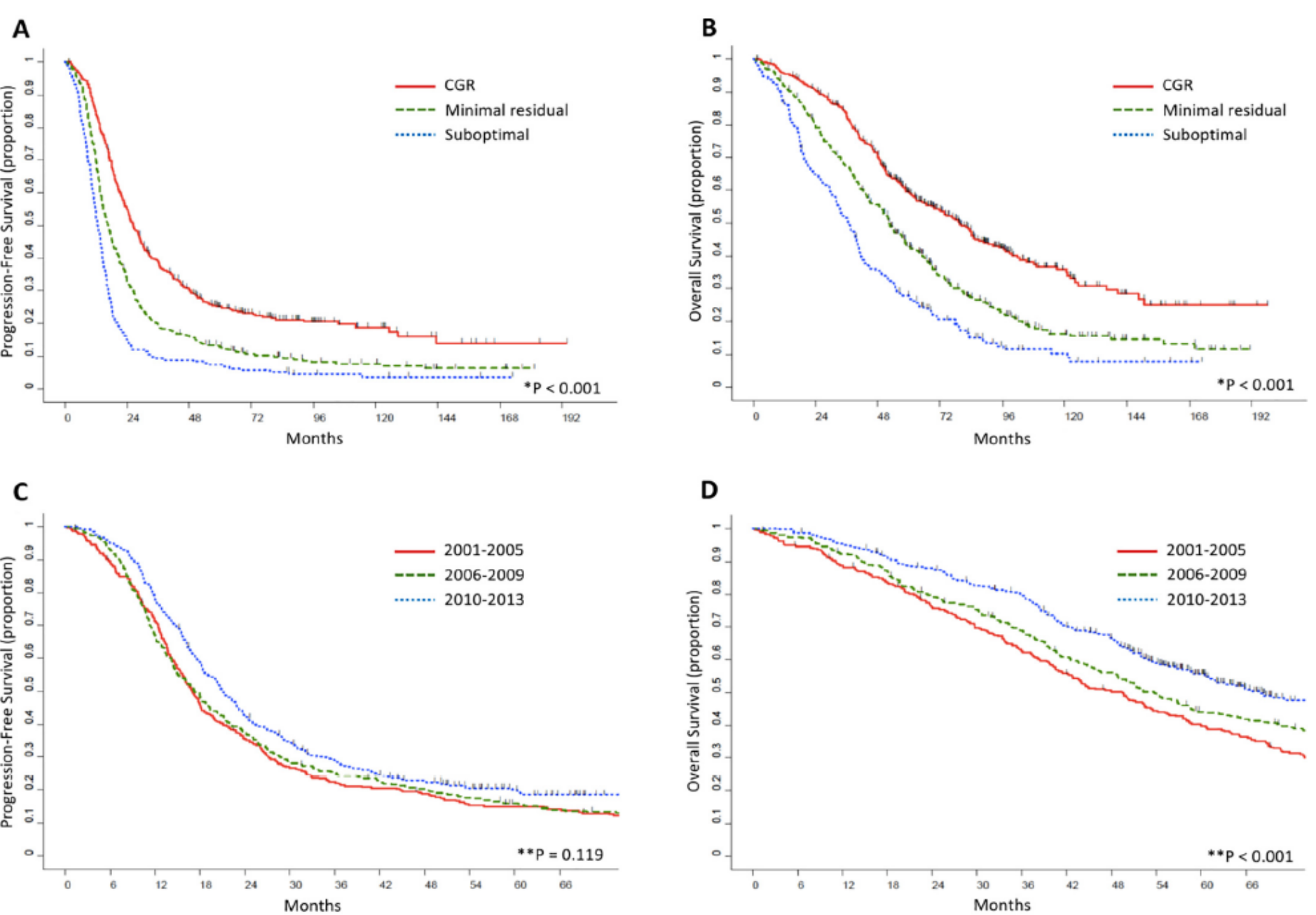
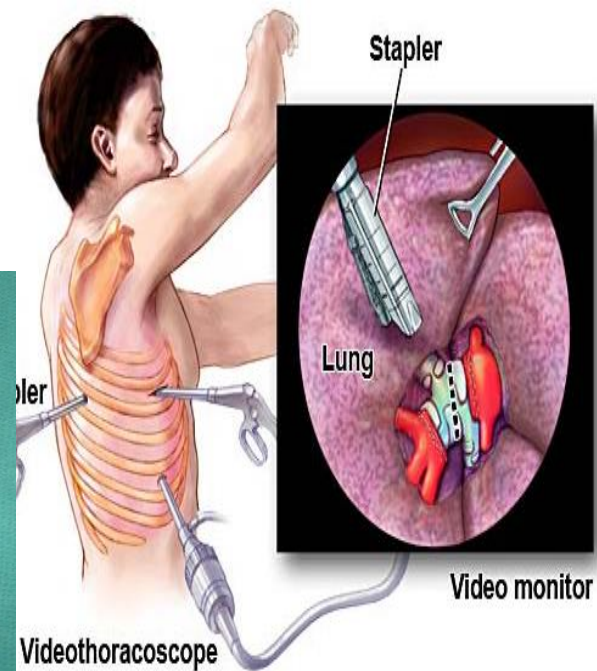
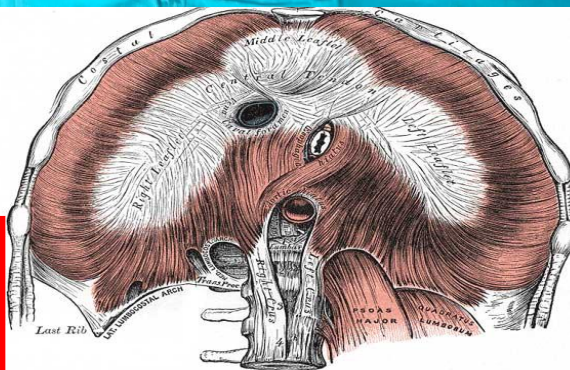
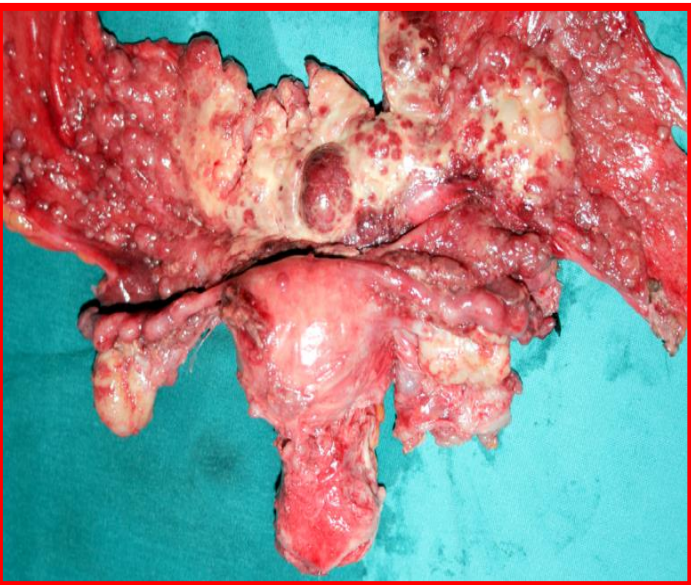
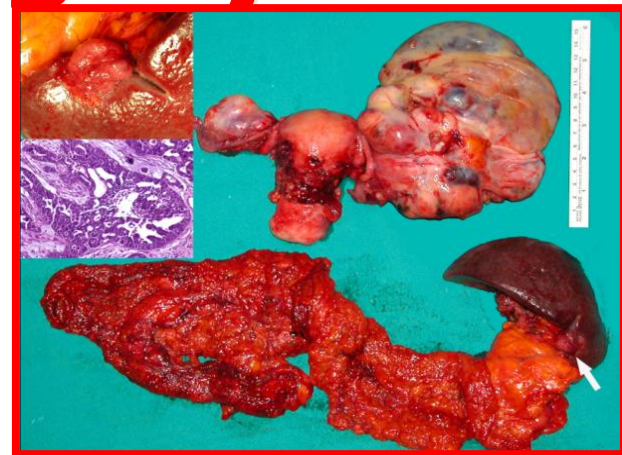
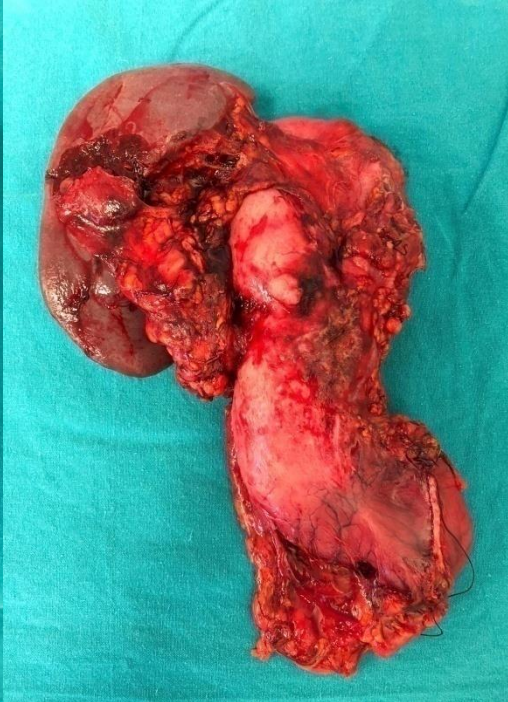
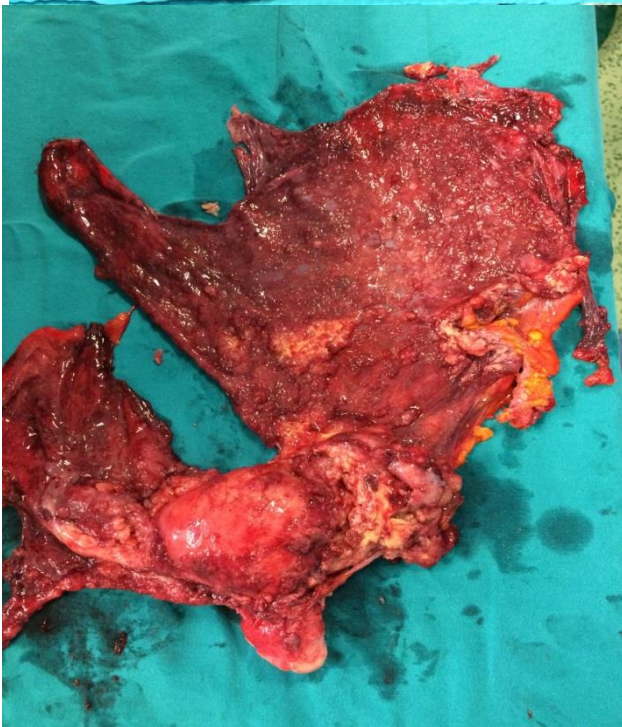
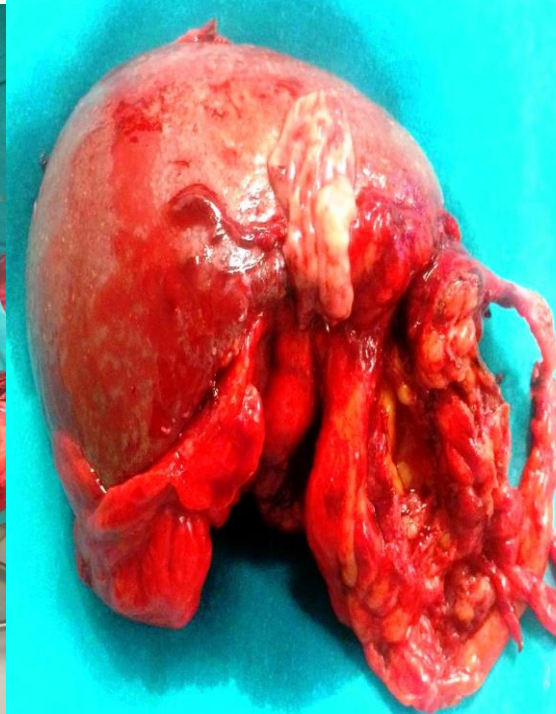


Fig. 1. (A) Progression-free survival and (B) overall survival stratified by residual disease. (C) Progression-free survival and (D) overall survival stratified by PDS-Year group. CGR, residual disease 0 mm; Minimal residual, residual disease 1–10 mm; suboptimal, residual disease >10 mm *Log-rank p value **Chi-square p value at 5-year time point PDS, primary debulking surgery; CGR, complete gross resection.

Extended Surgery





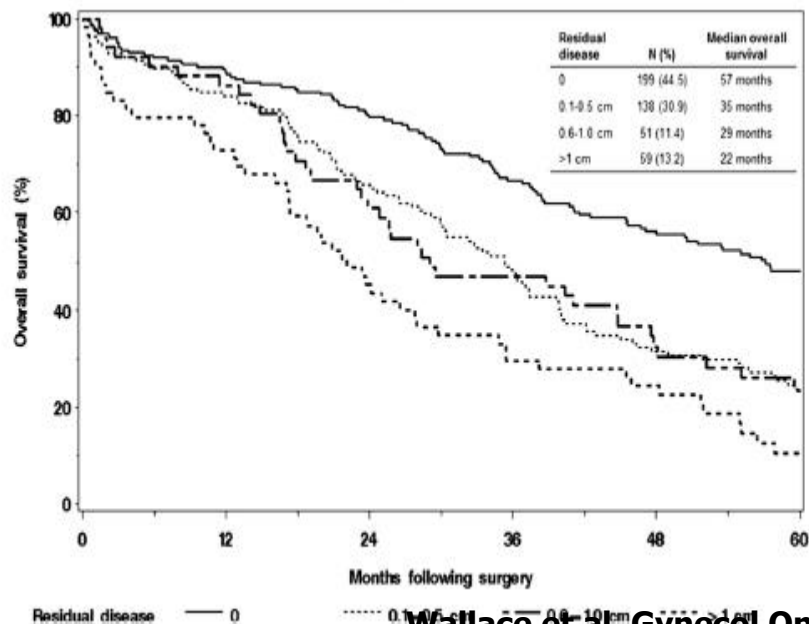
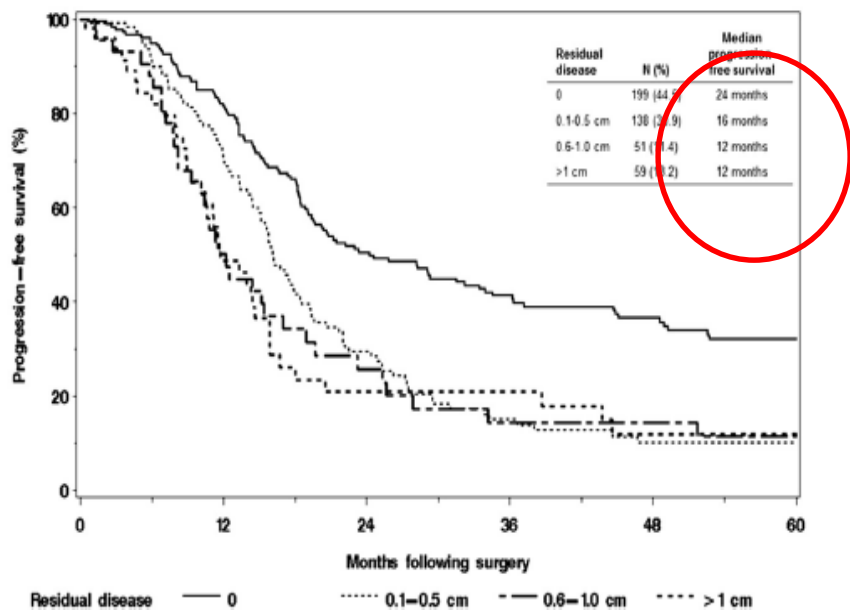


Vulvar, rectal and cystic metastases of ovarian cancer



Survival Impact of Optimal Debulking (R0 vs Others)

| 447 patients | n: | PFS | OAS |
|---------------|-----|-----|-----|
| RD 0 cm | 199 | 24 | 57 |
| RD 0.1-0.5 cm | 138 | 16 | 35 |
| RD 0.5-1 cm | 51 | 12 | 29 |
| RD > 1 cm | 59 | 12 | 22 |



Moving beyond “complete surgical resection” and “optimal”: is low-volume residual disease another option?

Beryl Manning-Geist MD^{a,c}, Katherine Hicks-Courant MD^d, Allison Gockley MD^{a,b}, Rachel Clark MD^c, Marcela del Carmen MD^c, Whitfield Growdon MD^c, Neil Horowitz MD^{a,b}, Ross Berkowitz MD^{a,b}, Michael Muto MD^{a,b}, Michael Worley Jr. MD^{a,b}

^a Division of Gynecologic Oncology, Brigham and Women's Hospital, Harvard Medical School, Boston, MA.

^b Dana-Farber Cancer Institute, Boston, MA.

^c Division of Gynecologic Oncology, Massachusetts General Hospital, Harvard Medical School, Boston, MA.

^d Department of Obstetrics and Gynecology, Tufts Medical Center, Tufts Medical School, Boston, MA.

PDS: 240

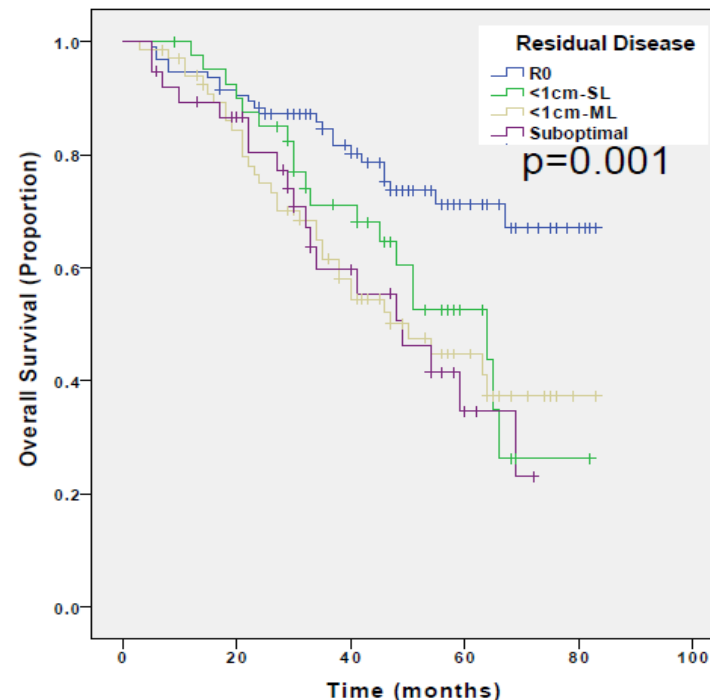
NACT: 270

Groups

1. R0
2. ≤ 1 cm single location (≤ 1 cm-SL)
3. ≤ 1 cm multiple location (≤ 1 cm-ML)
4. Suboptimal residual (>1 cm)

95 total deaths (39.6%)

- **Median OS**
- **-R0: Not yet reached**
- **- ≤ 1 cm-SL: 64 months**
- **- ≤ 1 cm-ML: 50 months**
- **-Suboptimal: 49 months**
- **Multiple site metastasis has similar outcome with suboptimal surgery**



GOG 182

2655pts with optimal CR(<1cm)

482(18,1%) pts - 590UAP performed

351 (13,1%) diaphragmatic surgery
112 (4,2%) liver surgery
108 (4%) splenectomy
12 (0,5%) pancreatotomy
7 (0,2%) porta hepatis surgery

UAS vs non UAS

PFS : 18,2 vs 14,8 mts (p<0,01)

OAS : 49,8 vs 43,7 mts (p: 0,01)

No RT (n:141) vs Minimal (<1cm) RT (n:341)

OAS : 54,6 vs 40,4 mts (p: 0,0005)

UAS should be performed when no residual tm is attainable



ORIGINAL ARTICLE – GYNECOLOGIC ONCOLOGY

Maximal-Effort Cytoreductive Surgery for Ovarian Cancer Patients with a High Tumor Burden: Variations in Practice and Impact on Outcome

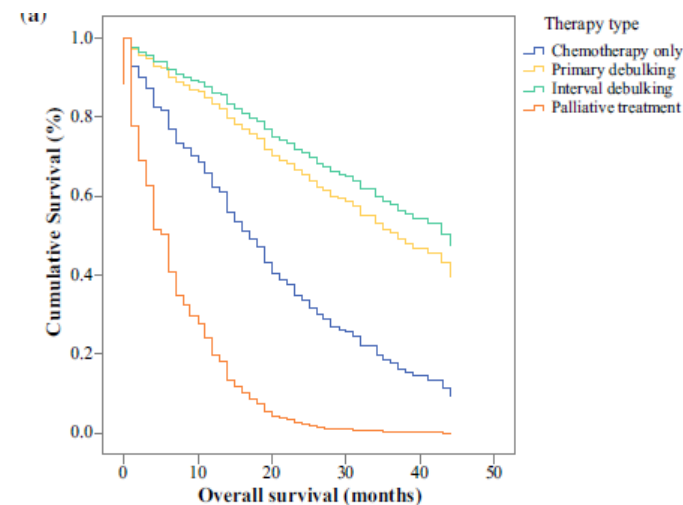
Marcia Hall, MD, PhD¹, Konstantinos Savvatis, MD, PhD^{2,3}, Katherine Nixon, MD⁴, Maria Kyrgiou, MD, PhD⁴, Kuhan Hariharan, MD¹, Malcolm Padwick, MD⁵, Owen Owens, MD⁵, Paula Cunnea, MD, PhD⁴, Jeremy Campbell, MD⁶, Alan Farthing, MD⁴, Richard Stumpfle, MD⁶, Ignacio Vazquez, MD¹, Neale Watson, MD⁷, Jonathan Krell, MD, PhD⁴, Hani Gabra, MD, PhD^{4,8}, Gordon Rustin, MD, PhD¹, and Christina Fotopoulou, MD, PhD^{4,6}

¹Mount Vernon Cancer Centre, Northwood, Middlesex, UK; ²Inherited Cardiovascular Diseases Unit, Barts Heart Centre, London, UK; ³William Harvey Research Institute, Queen Mary University, London, UK; ⁴Department of Surgery and Cancer, Imperial College London and West London Gynecological Cancer Centre, Imperial College NHS Trust, London, UK; ⁵West Hertfordshire Gynaecological Cancer Centre, WHH NHS Trust, Watford, UK; ⁶Department of Anaesthetics, Centre for Perioperative Medicine and Critical Care Research, Imperial College Healthcare NHS Trust, Ham House, Hammersmith Hospital, London, UK; ⁷Department of Gynaecology, Hillingdon Hospital, Uxbridge, UK; ⁸Early Clinical Development, IMED Biotech Unit, AstraZeneca, Cambridge, UK

- Retrospective ,stage 3 –IV EOC
- 249 pts high burden of tm,disseminated
- 2 centers

| Variable | HR | 95 % CI | p |
|--|--------------------|------------|--------|
| Histology (serous vs non-serous) | 1,6 | 1,04-2,61 | 0,031 |
| ECOG-status (3/4-1/2) | 1,9 | 1,15-3,13 | 0,012 |
| Primary surgery vs Chemotherpahy alone | 0,39 [*] | 0,22-0,67 | 0,001 |
| iDS vs Chemo alone | 0,315 [*] | 0,188-0,52 | <0,001 |
| Palliative alone vs chemo alone | 3,43 | 1,51-7,81 | 0,003 |

^{*} Protective



- CRS requies more complex procedures
- More resources
- Longer hospital stay
BUT
- Better OS

Liver resection

- **In selected patients**
 - Systemic tumor burden low**
- **Generally superficial metastases**
- **Limited size of tm**
- **More than 1 cm in depth multisegmenter metastases^x**

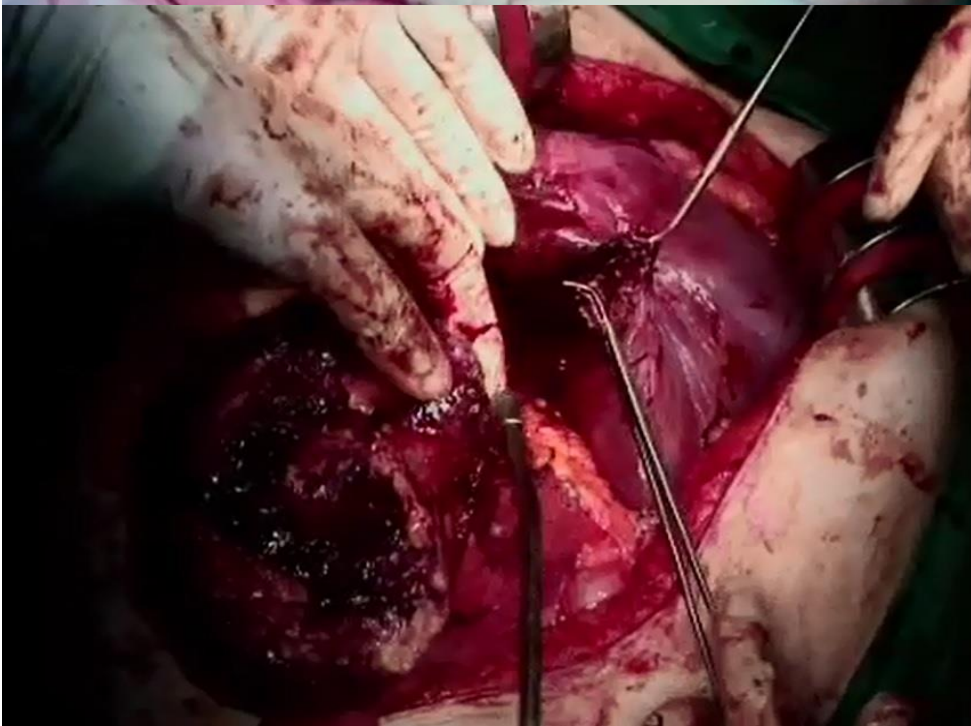
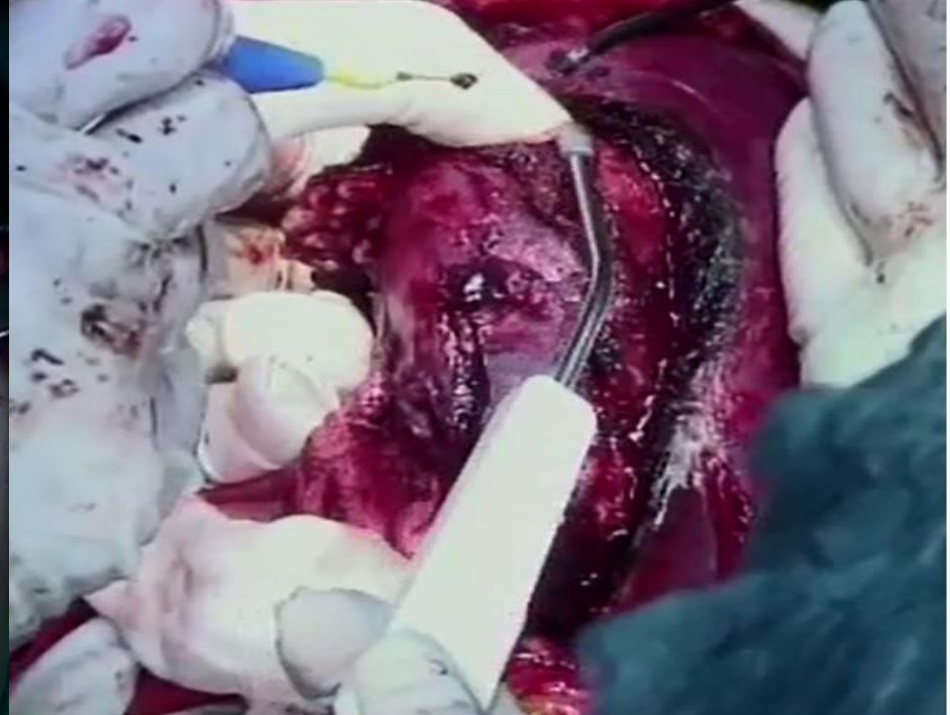
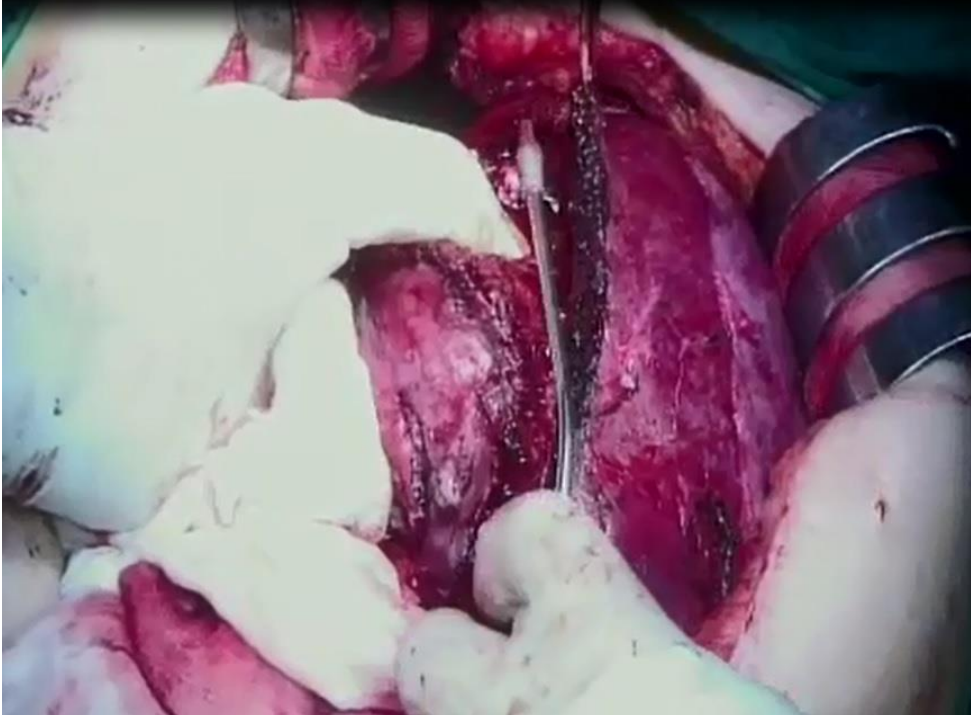
^xif needed call hepatobiliar surgeon

Liver resection vs Overall Survival

| Liver resection × | OS months |
|--------------------------|------------------|
| RO LR | 50,1 m |
| Non-RO | 20,0 m |
| Unresectable | 10 m |

*must be tumor free border

Hepatobilier surgery 2019 8 (2) 129-137



Survival Impact of Liver Resection in EOC

| Study | Ptx N | Optimal CRS (%) | Negative Resection Margin (%) | OS (m) |
|-----------------------|-------|-----------------|-------------------------------|--|
| Meredith et al (2003) | 26 | 80,8 | NA | 26,3 Optimal 27,3 Suboptimal 8,6 |
| Yoon et al (2003) | 24 | 66,7 | 54,1 | 62 |
| Loizzi et al (2005) | 29 | NA | NA | 25 |
| Abood et al (2008) | 10 | 100 | 50 | 33 |
| Pekmezci et al (2010) | 8 | NA | 100 | 24 |
| Roh et al (2010) | 18 | 66,7 | 66,7 | 38 (3-78) |
| Niu et al (2012) | 60 | NA | 90 | 39 (5-79) |
| Neumann et al (2012) | 70 | NA | NA | Optimal 42 Suboptimal 4,6 |
| Kolev et al (2014) | 27 | 92,6% | 88,9 | 56 (12-249) |

Gasparri et al., J Cancer Research Clin Oncol Dec 2015

Hacker et al [Best Practice & Research Clinical Obstetrics & Gynaecology](#)
[Volume 41](#), May 2017, Pages 71-87

The influence of splenic metastases on survival in FIGO stage IIIC epithelial ovarian cancer.

Ayhan A¹, Al RA, Baykal C, Demirtas E, Ayhan A, Yüce K. *Int J Gynecol Cancer*. 2004 Jan-Feb;14(1):51-6.

| N:34 (IIIC EOC) Splenic Metastasis | N | Overall median survival |
|---|-----------|--------------------------------|
| Present | 18 | 28.9 |
| Absent | 16 | 41.3 |

Survival Impact of Splenectomy

| N:131 | N | OAS% | DFS% |
|-----------------------|-----------|-------------|-------------|
| Splenectomy | 33 | 66,6 | 30,3 |
| No splenectomy | 99 | 59,6 | 33,3 |

Splenic met prevalence : 2,3-7,1%
Incidence up to 20% in autopsies

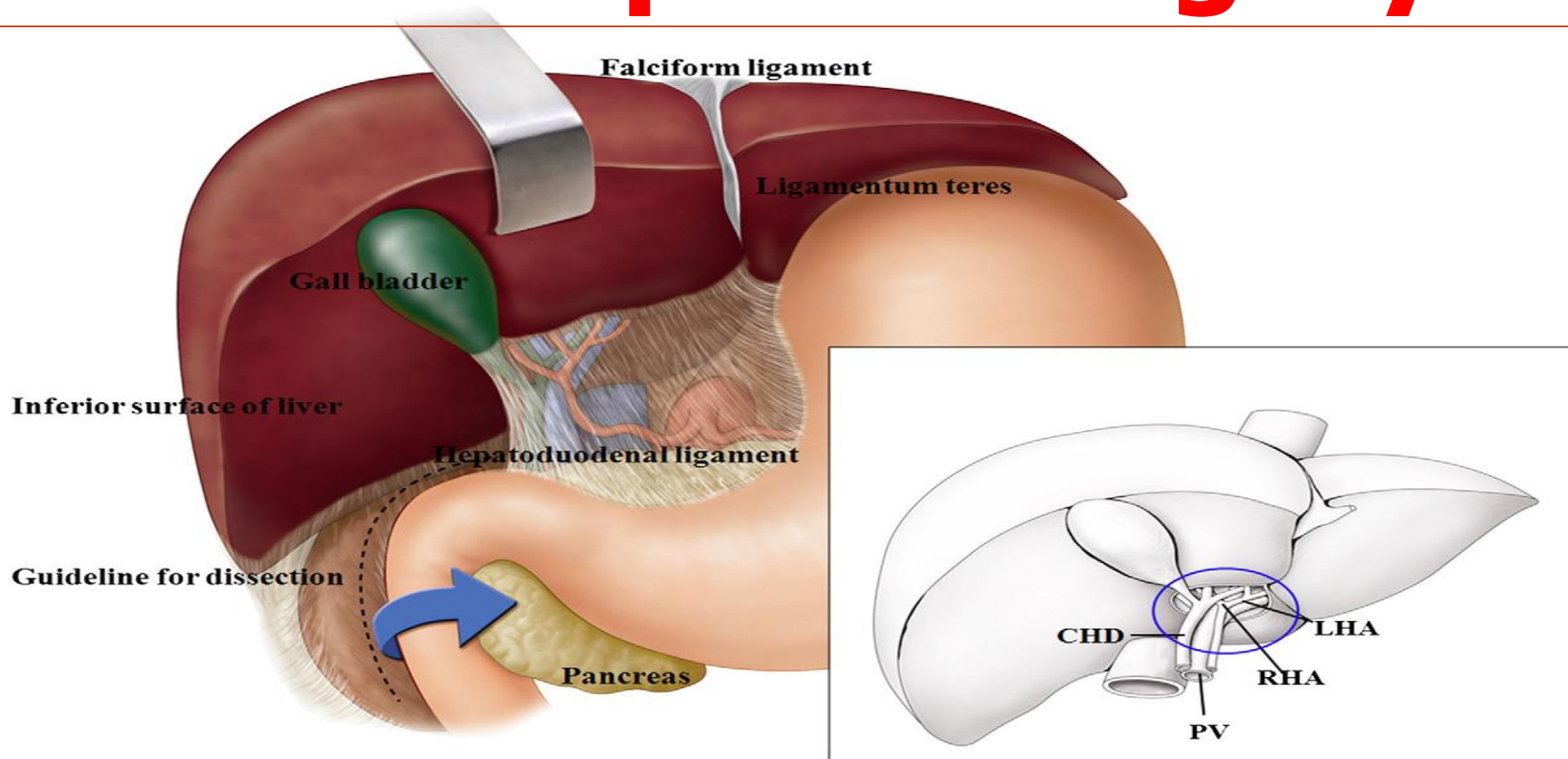
Survival Impact of Diaphragmatic Surgery

| | Surgery OS | Non surgery OS |
|-------------------------------|-----------------------|---------------------------|
| Aletti et al 2006 | % 55 | % 28 |
| Muallem et al 2016 | 28 m | 29 m |

Diaphragmatic resection has better DFS than stripping but no OS advantage

Zapardiel et al Int Journal of Gyn Cancer. 21(9):1698–1703, DEC 2011
Muallem et al ANTICANCER RESEARCH 36: 4707-4714 (2016)
Aletti et al [Gynecol Oncol.](#) 2006 Feb;100(2):283-7. Epub 2005 Sep 22
Pounds et al j.ejogrb 2018.05.24

Porta Hepatis Surgery



11 patients, heterogenous history of disease

Multidisciplinary approach for prevention of morbidity

Limited number direct survival effect is unclear

Indirectly YES

What is Survival impact of Optimal Debulking Surgery in Stage IV Ovarian

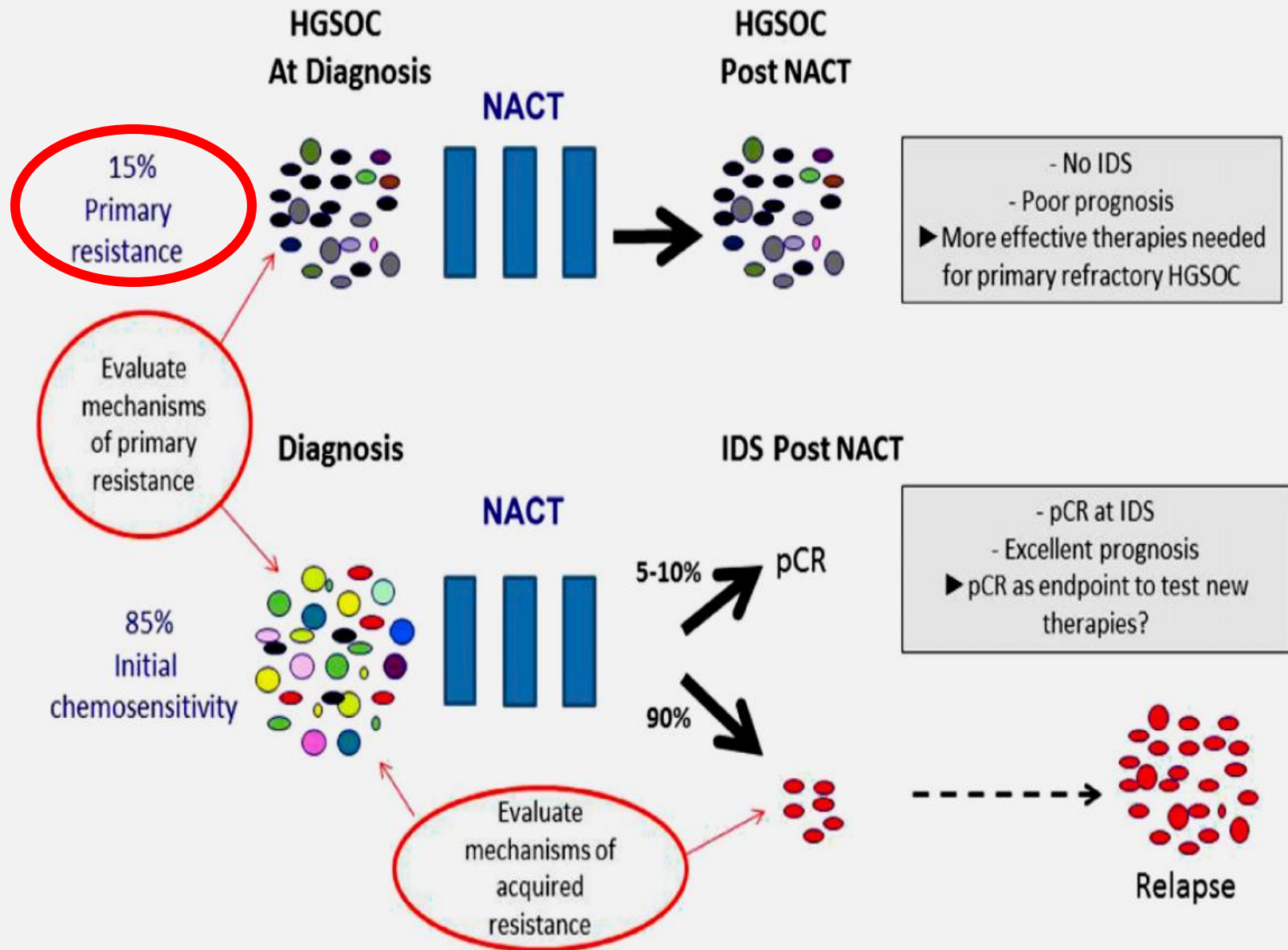
| Study | Optimal debulking n (%) | Criteria (cm) | Optimal Median OS* (m) | Suboptimal Median OS* (m) |
|---------------------|-------------------------|---------------|------------------------|---------------------------|
| Curtin et al 1997 | 41 (45) | ≤2 | 40 | 19 |
| Liu et al 1997 | 14 (30) | ≤2 | 37 | 17 |
| Munkarah et al 1997 | 31 (31) | ≤2 | 25 | 15 |
| Bristow et al 1999 | 25 (30) | ≤1 | 38 | 10 |
| Akahira et al 2001 | 70 (31) | ≤2 | 32 | 16 |
| Aletti et al 2008 | 50 (46) | ≤1 | 37 | 16 |
| Winters et al 2008 | 78 (22) | 0.1-1 | 29 | 20 |

* All SS

What is the Limitation of PDS according to Metastatic Sites and Dissemination

| 658 patients 578 upfront surgery 191 had residual disease p: 0.001 | | Location of Residual Tm | ALL N:191 | TR 1-10 mm N:144 (75,4%) | TR>10 mm N:47 24,6% | p |
|---|---------------------|---------------------------------------|------------|--------------------------|---------------------|--------|
| Residue | OAS (months) | Small intestine | 150(79,8%) | 124(87,9%) | 26(55,3%) | <0.001 |
| R0 | 56 | Portahepatis Lig.hepatoduodenale | 19(10,1%) | 7(5%) | 12(25,5%) | <0.001 |
| 0-10 mm | 32 | Multisegmentar Parenchymal Liver met. | 8(4,3%) | 1(0,7%) | 7(14,9%) | <0.001 |
| >10 mm | 17 | Supradiaphragmatic | 25(14,9) | 21(14,9%) | 7(14,9%) | 1.000 |
| | | Pancreas | 15(8%) | 4(2,8%) | 11(23,4%) | <0.001 |
| | | Stomach | 6(3,2%) | 2(1,4%) | 4(8,5%) | 0.035 |
| | | T.coeliacus | 5(2,7%) | 2(1,4%) | 3(6,4%) | 0.101 |

NACT Setting: A Translational Research Opportunity



PDS vs IDS in Stage III or IV

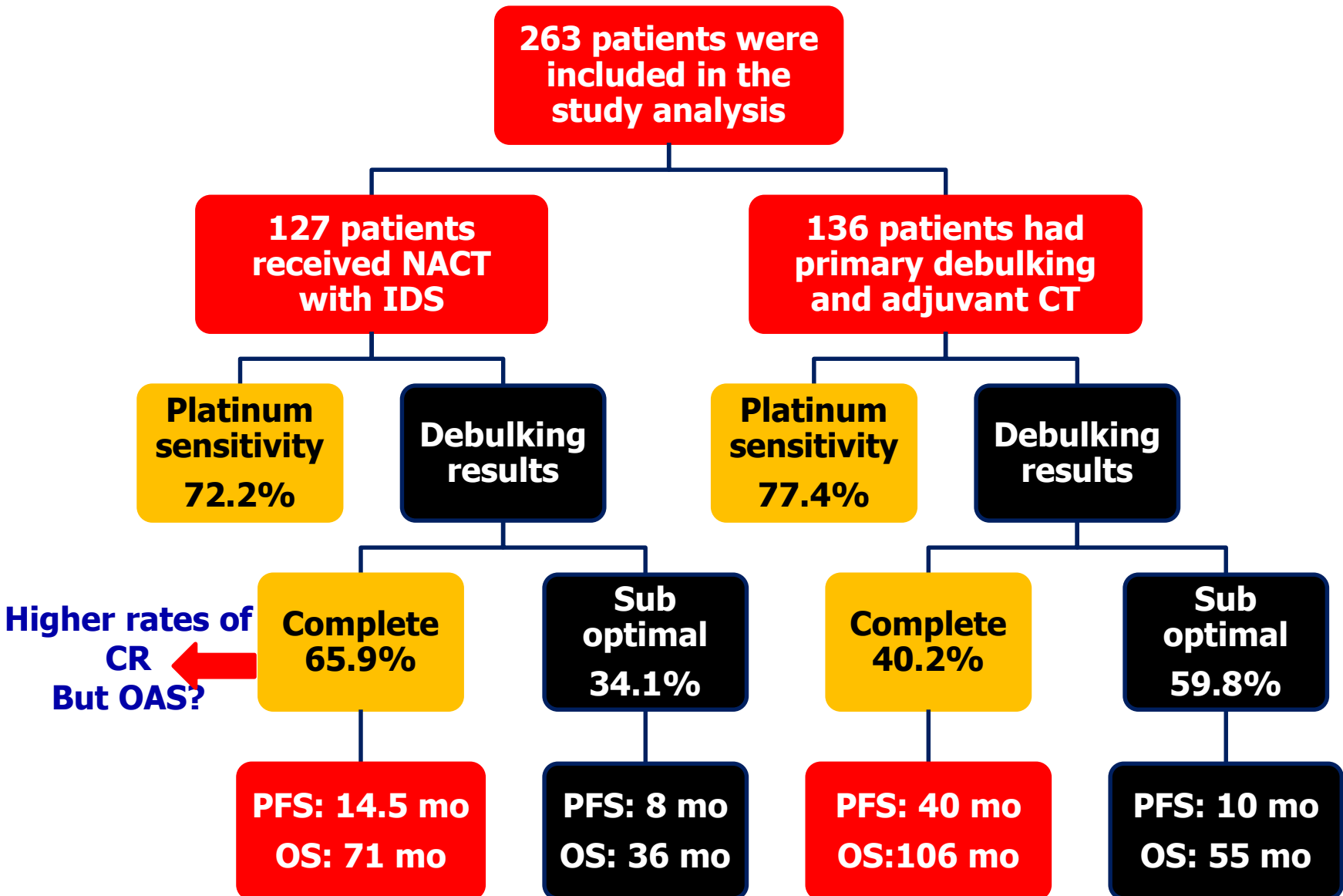
| Year Study | Primary Endpoint | Study Arm | n | Stg IV (%) | No Residual (%) | PFS (Months) | OAS (months) |
|---------------------------------|------------------|-----------|-----|------------|-----------------|--------------|--------------|
| 2016 Scorpion (Fagotti's) | OS | NACT | 87 | 7 | 58 | 15 | NR |
| | | PCS | 84 | 15 | 46 | 14 | 41 |
| 2015 CHORUS | OS | NACT | 274 | 25 | 39 | 12.0 | 24.1 |
| | | PCS | 276 | 25 | 17 | 10.7 | 22.6 |
| 2014 JCOG 0602 | OS | NACT | 152 | 30 | 63 | 16.4 | 44.3 |
| | | PCS | 149 | 32 | 30 | 15.1 | 49 |
| 2010 EORTC 5591 | OS | NACT | 334 | 24 | 51 | 12 | 30 |
| | | PCS | 336 | 23 | 19 | 12 | 29 |

Clinical outcome of neoadjuvant chemotherapy for advanced ovarian cancer☆

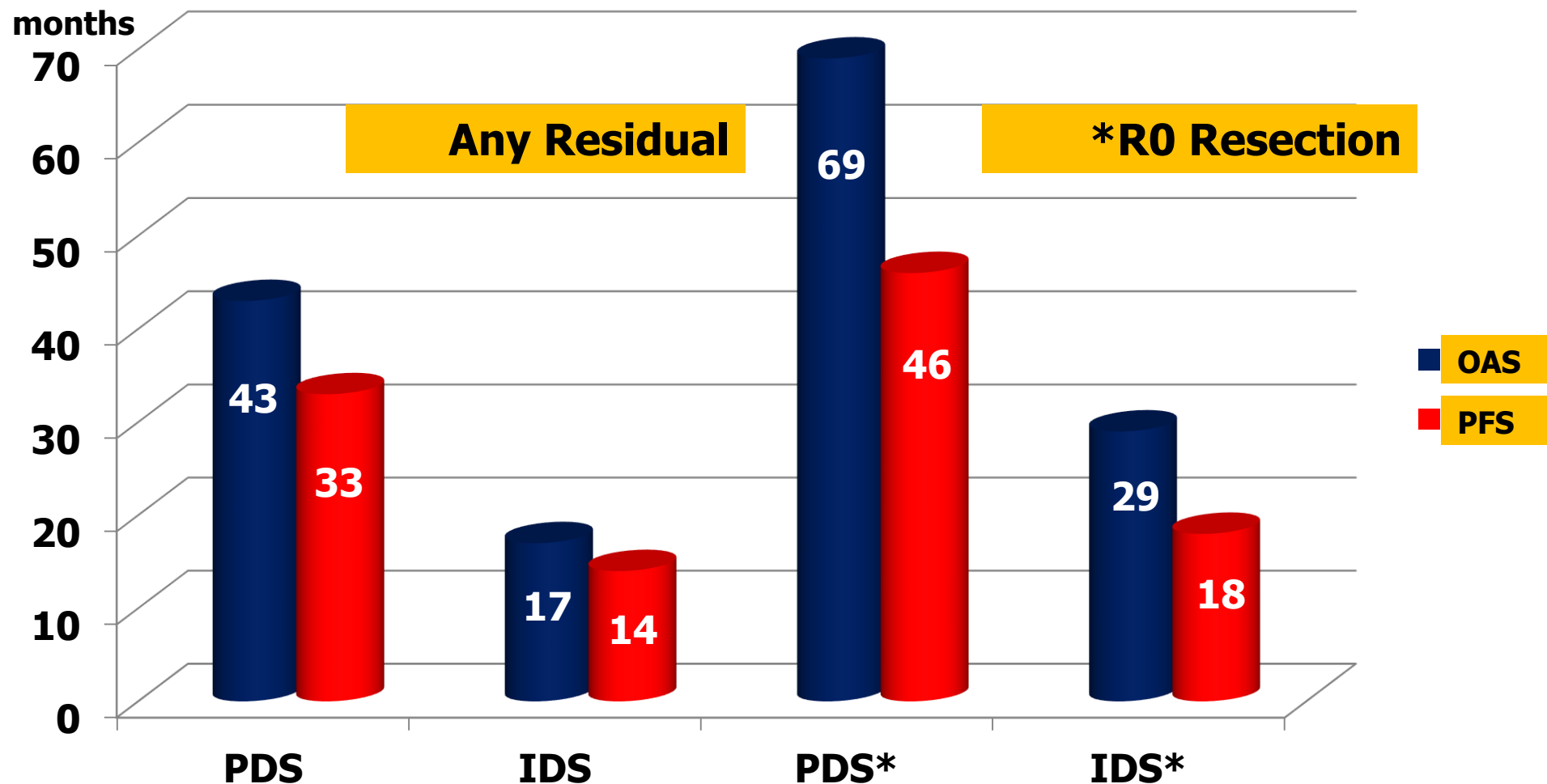


Roy Kessous, Ido Laskov, Jeremie Abitbol, Joanna Bitharas, Amber Yasmeeen, Shannon Salvador, Susie Lau, Walter H. Gotlieb *

Gynecologic Oncology 144 (2017) 474–479

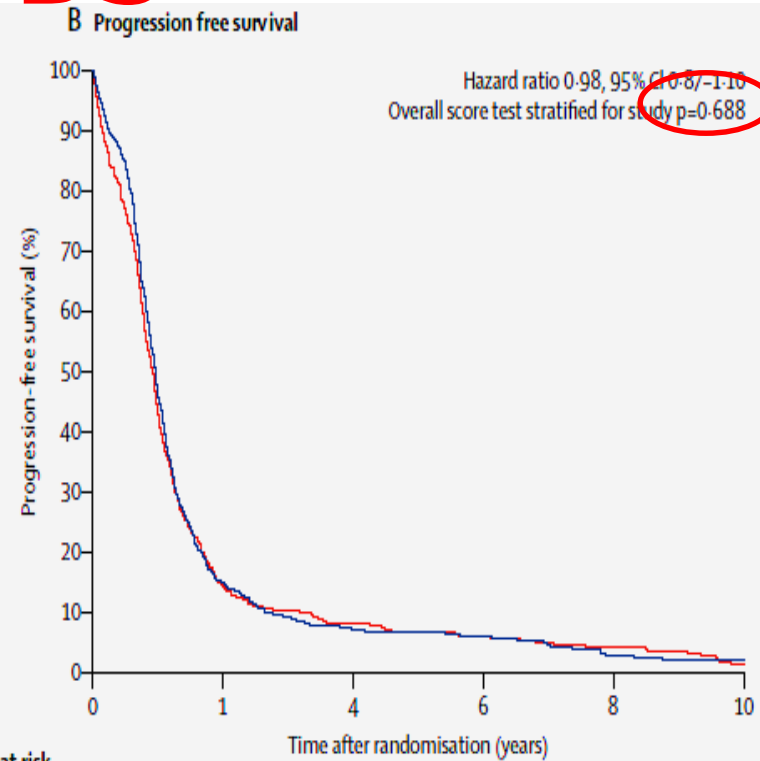
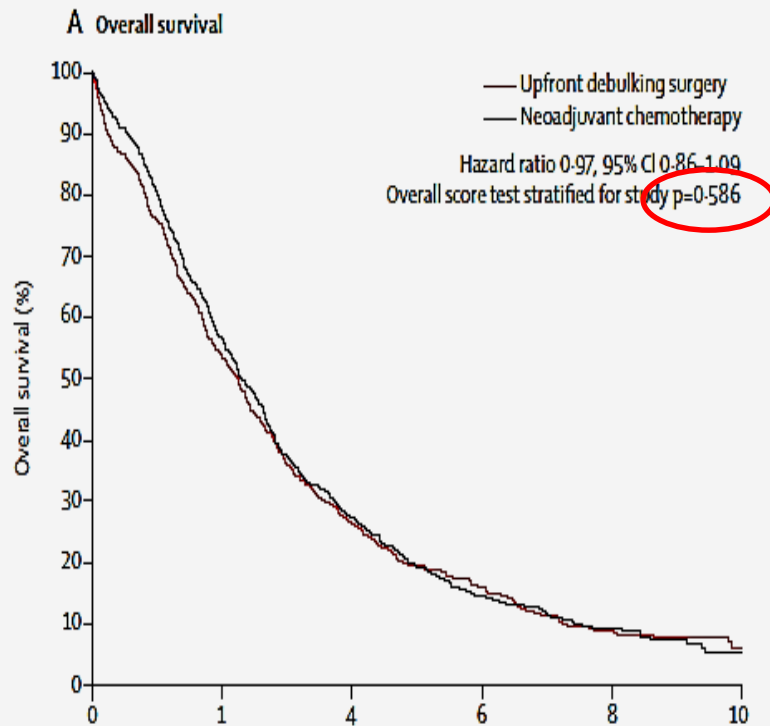


Long Term Survival of PDS vs IDS



n:14182 (PDS; 11871 + IDS; 2311) median follow-up 43 m

Long Term Survival NACT vs PDS



| | 0 | 1 | 4 | 6 | 8 | 10 |
|---|---------|----------|----------|---------|---------|--------|
| Number at risk (number censored) | | | | | | |
| Upfront debulking surgery | 612 (0) | 323 (10) | 149 (23) | 74 (46) | 27 (63) | 7 (79) |
| Neoadjuvant chemotherapy | 608 (0) | 338 (7) | 147 (28) | 65 (48) | 22 (71) | 7 (80) |

| | 0 | 1 | 4 | 6 | 8 | 10 |
|---|---------|--------|---------|---------|---------|--------|
| Number at risk (number censored) | | | | | | |
| Upfront debulking surgery | 612 (0) | 87 (5) | 48 (11) | 27 (20) | 16 (24) | 4 (26) |
| Neoadjuvant chemotherapy | 608 (0) | 92 (2) | 39 (9) | 26 (17) | 8 (26) | 4 (26) |

NACT is non-inferior OS and PFS as compared with upfront debulking surgery
NACT has better OS at stage IV disease

Disadvantages of NACT

15% primary resistance

Development of Chemo-resistant clones

LGSC, CC, Mucinous tm

**Limited response to classical
paclitaxel – carboplatin
regimen**

NACT+IDS Short Term Advantages (n:1607, AOC Patients)

**High optimal cytoreduction
Low perioperative morbidity
and mortality
Quality of life***

Better QOL than PDS*

Fatigue

Role of function

Emotional function

Cognitive function

What About Survival Impact of HIPEC After NACT

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Hyperthermic Intraperitoneal Chemotherapy in Ovarian Cancer

W.J. van Driel, S.N. Koole, K. Sikorska, J.H. Schagen van Leeuwen,

245 EOC pts

3 cycles of NACT (at least stable disease ,NO progressive or refractory)

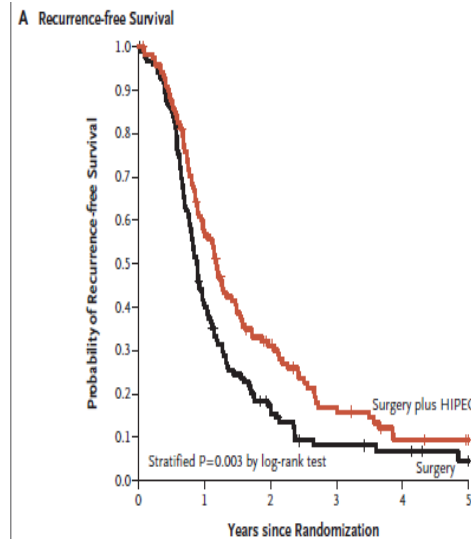
+

Surgery (complete resection or maximum 10 mm residual tm)

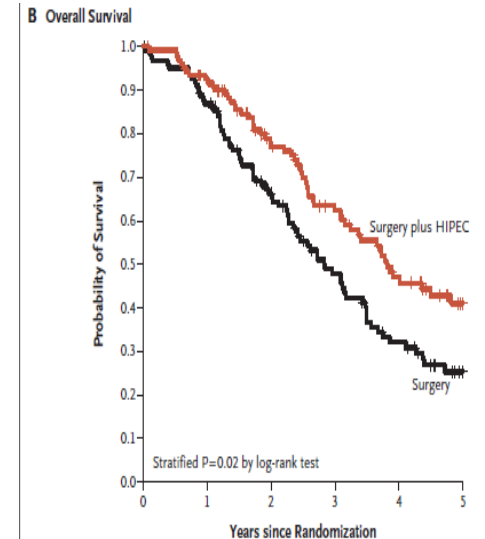
± HIPEC (100 mg per sq Cisplatin)

HIPEC :122 pts

Without HIPEC:123 pts



| No. at Risk | 0 | 1 | 2 | 3 | 4 | 5 |
|--------------------|-----|----|----|----|---|---|
| Surgery | 123 | 48 | 18 | 7 | 5 | 2 |
| Surgery plus HIPEC | 122 | 67 | 31 | 15 | 7 | 5 |

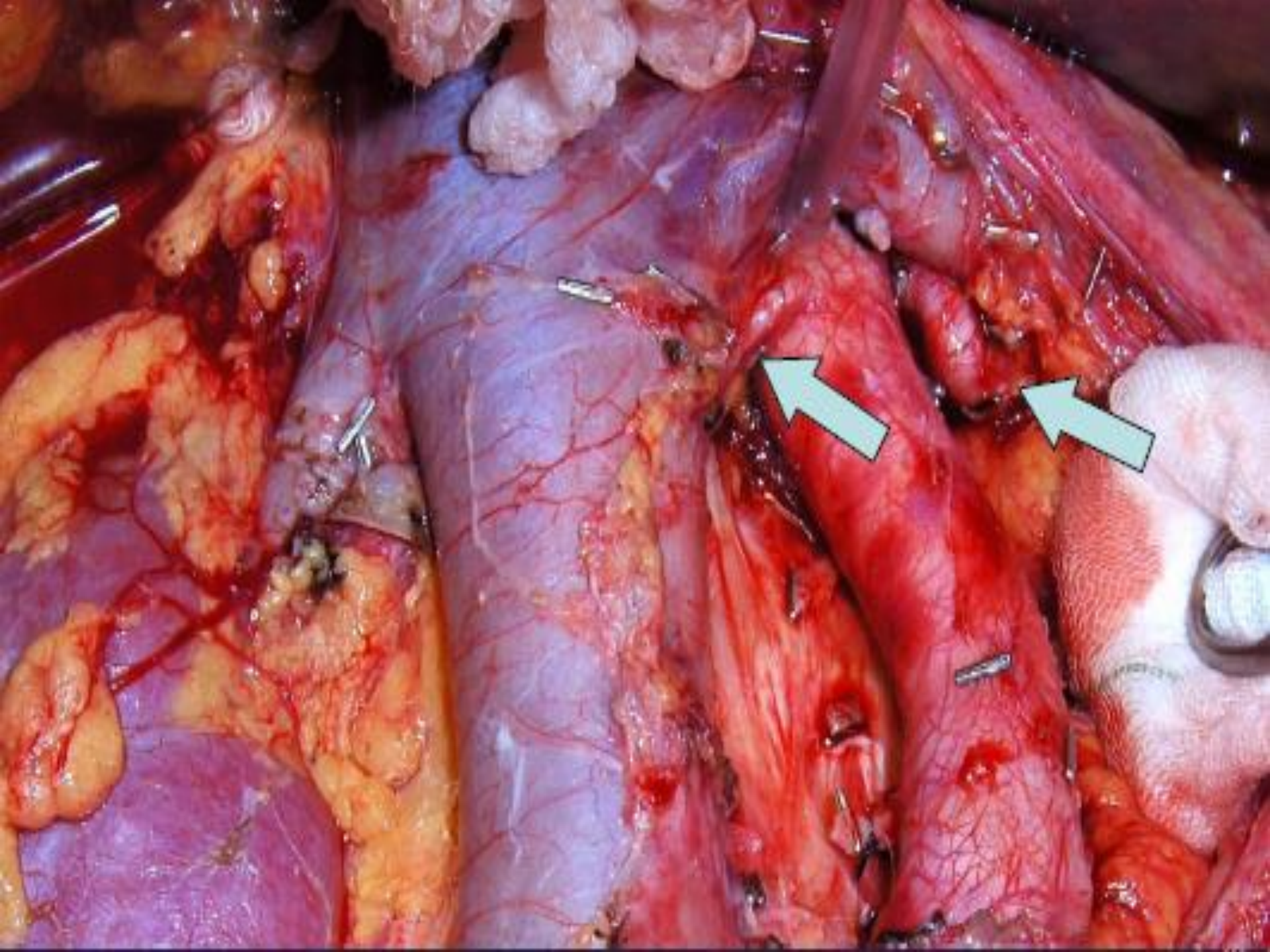


| No. at Risk | 0 | 1 | 2 | 3 | 4 | 5 |
|--------------------|-----|-----|----|----|----|----|
| Surgery | 123 | 103 | 70 | 44 | 27 | 12 |
| Surgery plus HIPEC | 122 | 108 | 79 | 56 | 37 | 20 |

Table 3. Mortality risk factors, univariate analysis.

| Variable | Modality | Population | Hazard ratio (95% CI) | p value |
|---|--------------------|------------------|-----------------------|---------|
| Age (years) at the time of first HIPEC | ≥50 | 54 (69.2%) | 1.00 | .004 |
| | <50 | 24 (30.8%) | 4.2 (1.6–11.1) | |
| Time between diagnosis and HIPEC | | | 0.99 (0.98–1.01) | .26 |
| Number of HIPEC | 1 | 64 (82.1%) | 1.00 | .08 |
| | 2 | 10 (12.8%) | 0 (0-) | |
| | 3 | 4 (5.1%) | 5.1 (1.2–21.1) | |
| Experience of the centre (years) ^a | [0–7] | 15 (19.2%) | 1.00 | .83 |
| |]7–11] | 33 (42.3%) | 1.27 (0.07–22.80) | |
| | >11 | 30 (38.5%) | 0.97 (0.03–27.73) | |
| Peritoneal Cancer Index | | Missing data: 13 | | .049 |
| | [0–8] | 38 (58.5%) | 1.00 | |
| Adjuvant chemotherapy (first HIPEC) | >8 | 27 (41.5%) | 2.8 (1.0–7.7) | .78 |
| | No | 36 (72.0%) | 1.00 | |
| CA125 at the time of first HIPEC | Yes | 14 (28.0%) | 1.2 (0.3–4.2) | .02 |
| | Missing data: 44 | | | |
| CC-score at the time of first HIPEC | <30 | 7 (20.6%) | 1.00 | .057 |
| | [30–100[| 9 (26.5%) | 1.1 (0.1–13.3) | |
| | ≥100 | 18 (52.9%) | 74.2 (2.5–2216.8) | |
| ASA | CC-0 | 60 (76.9%) | 1.00 | .44 |
| | CC-1 + CC-2 | 18 (23.1%) | 2.8 (1.0–7.8) | |
| Performance Status (PS) at the time of the first HIPEC ^a | | Missing data: 10 | | 1.00 |
| | 1 | 17 (25.0%) | 1.00 | |
| Gilly's groups[1] | 2 | 51 (75.0%) | 0.6 (0.2–2.3) | .40 |
| | 0-1-2 | 12 (44.4%) | 1.00 | |
| | 3-4 | 15 (55.6%) | 2.0 (0.4–10.3) | |
| Indication | Advanced EOC | 7 (9.0%) | 1.00 | .20 |
| | Recurrent EOC | 71 (91.0%) | 0.3 (0.1–1.8) | |
| Platinum-sensitivity | | Missing data: 2 | | .38 |
| | Platinum-resistant | 37 (48.7%) | 1.00 | |
| | Platinum-sensitive | 32 (42.1%) | 1.4 (0.5–3.4) | |
| Histology and grade | Advanced frontline | 7 (9.2%) | 3.5 (0.6–21.2) | .45 |
| | HGSOC | 39 (50.0%) | 1.00 | |
| Number of chemotherapeutic agents (HIPEC) | Other | 39 (50.0%) | 1.8 (0.4–8.5) | .58 |
| | 1 | 39 (50.0%) | 1.00 | |
| Initial residual disease | 2 | 39 (50.0%) | 1.5 (0.3–6.8) | .64 |
| | Missing data: 14 | | | |
| Resection of metastases | No | 21 (32.8%) | 1.00 | .48 |
| | Yes | 43 (67.2%) | 1.4 (0.4–5.2) | |
| | | Missing data: 4 | | |
| | No | 71 (95.9%) | 1.00 | |
| | Yes | 3 (4.1%) | 1.8 (0.3–10.0) | |

^awith Firth correction [42].



Survival Impact Of Lymphadenectomy in Advanced Stage Ovarian Cancer

- **The Incidence of (+) LN in Advanced Ovarian Cancer = 66%**
- **49% positive LN > 1 cm diameter**
- **17% had positive LN > 1cm not identified by palpation or inspection**

Survival Impact of Lymphadenectomy in Advanced EOC (bulky nodes excluded)

| | Lymphadenectomy | No Lymphadenectomy | |
|--|-----------------|--------------------|--------------------------------|
| Benedetti Panici et al., 2005 Prospective J Natl Cancer Inst. 2005 Apr 20;97(8):560-6. | PFS | 31.2 % | 21.6 % p=0.02 |
| | OS | 48.5 % | |
| LION ESGO 2017 Prospective <i>Journal of Clinical Oncology 35, no. 15_suppl (May 20 2017) 5500-5500.</i> | PFS | 25,5 m | 25,5 m |
| | OS | 65,5 m | 69,2 m |
| Du Bois et al., 2010 Retrospective J Clin Oncol. 2010 Apr 1;28(10):1733-9. doi: 10.1200/JCO.2009.25.3617. Epub 2010 Mar 1. | OS | 67,4 % | 59,2 % |
| | | | |
| GOG 182 Retrospective Cancer. 2017 May 15;123(6):985-993. doi: 10.1002/cncr.30414. Epub 2016 Nov 16. | PFS | 18,5 m | 16 m p<0,01 |
| | OS | 53,3 m | 42,8 m p<0,01 |

MIS in EOC

Staging & Treatment

(peritoneal cytology-biopsy + Pelvic paraaortic LND + Hysterectomy + BSO + Omentectomy)

Re-Staging

- Nezhat et al. n:36 follow-up 55,9 mts , OS %100
- Chi et al. n:50 Is :20 It : 30 all results same, lower morbidity in LS group
- Restaging GOG 9302 9402

Triage for resectability

(Vergote n:285, Fagotti n:64...)

Cyto-reductive surgery* for primary or recurrent EOC in selected cases

(Amara et al, Nezhat et al)

*HALS (Hand assisted Laparoscopic Surgery)

L/S vs L/T in the Treatment of Early Stage EOC

L/S (n:66)

L/T (n:120)

**Adjuvant CT
(70%)**

Similar

Recurrence

5 (8,3%)

16 (13,3%)

PFS (4y)

89%

81%

OAS

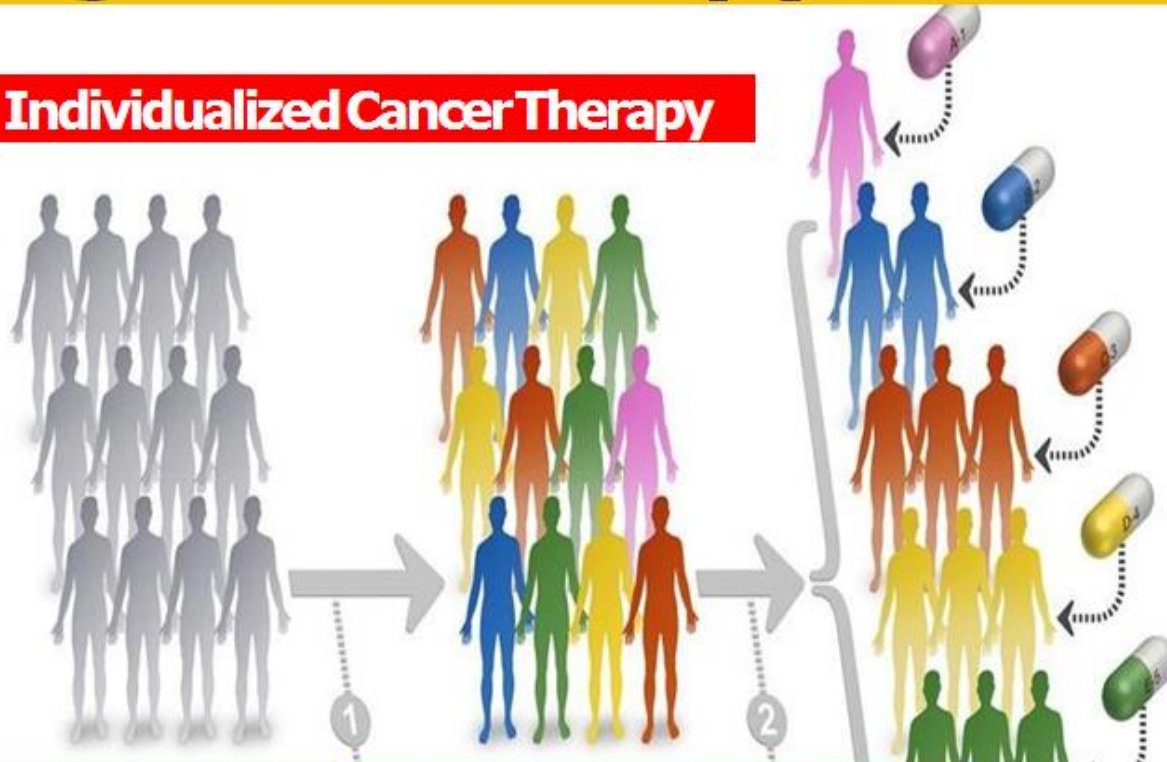
92%

91%

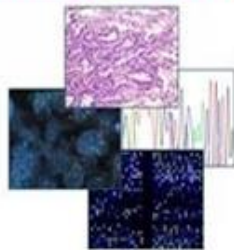
NOT SIGNIFICANT

Implementing a Targeted Therapy Strategy

Individualized Cancer Therapy



Molecular Profiling



Prognostic Markers
Markers predictive of drug Sensitivity/resistance
Markers predictive of Adverse events

BIOMARKERS

New Approaches in the Management of EOC

Gene based chemotherapy

Novel biologic agents

(VEGF. PARP. m-TOR. inhibitors etc...)

IP chemotherapy (Regular and HIPEC)

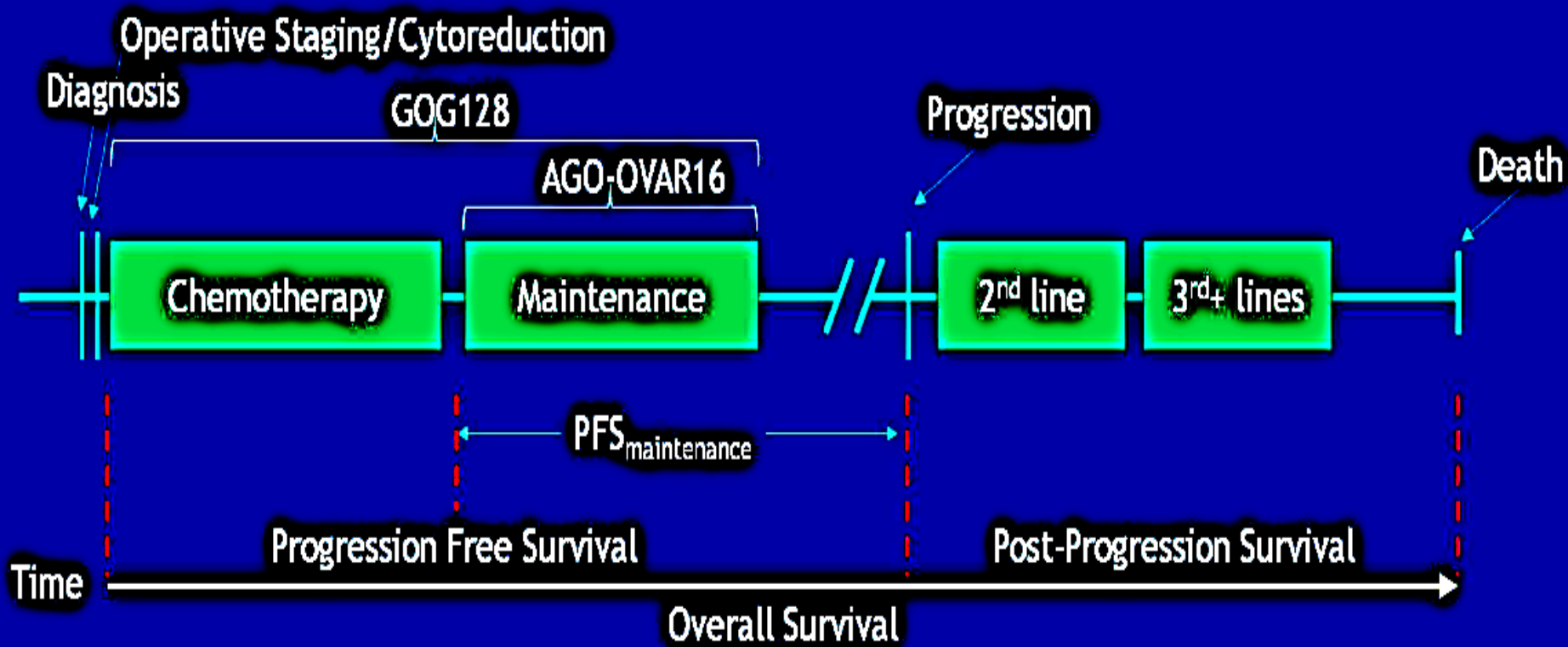
NACT

Check-point inhibitors

(Vaccination & Immunotherapy)

DO NOT FORGET THE BIOLOGICAL BEHAVIOR OF THE TUMOR!!!!

Maintenance Strategies in Front-line Therapy



Presented By Stephanie Gaillard at 2018 ASCO Annual Meeting

Conclusion

OC remains as the most lethal GYN neoplasm

No effective screening programme

but risk reduction surgery (BRCA 1,2)

More than 60% is advanced stage

**Currently PDS with no residual tm + Adjuvant
CT is the standard of care**

**NACT + IDS is not standard yet, just in
selected cases**

Early diagnose or close follow up



Thank you for your attention



TÜRK
JİNEKOLOJİK ONKOLOJİ DERNEĞİ