



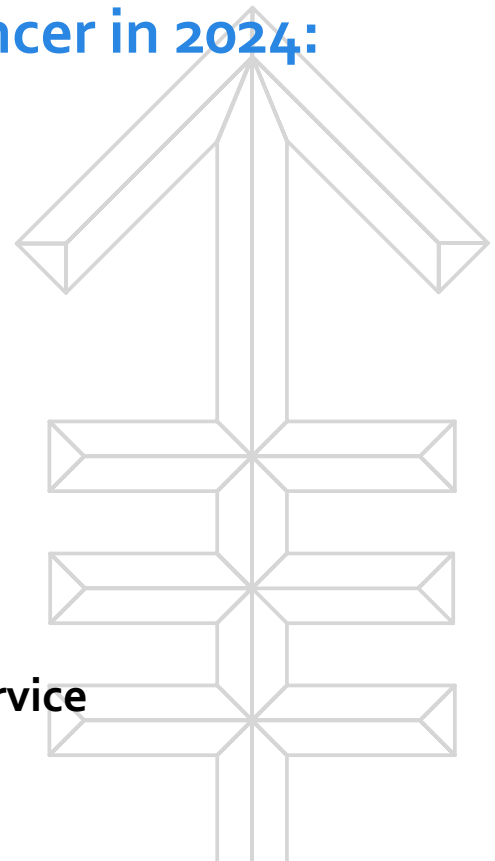
Memorial Sloan Kettering
Cancer Center™

Updates in Esophageal and Pancreatic Cancer in 2024: Practice-changing or –informing studies

Geoffrey Ku, MD

Gastrointestinal Oncology Service & Cellular Therapy Service

Department of Medicine



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ANNUAL MEETING

Perioperative Chemotherapy (FLOT) versus Neoadjuvant Chemoradiotherapy (CROSS) for Resectable Esophageal Adenocarcinoma

The ESOPEC Trial (NCT02509286)

J Hoepfner, F Lordick, T Brunner, C Schmoor, B Kulemann, UP Neumann, G Folprecht, T Keck, F Benedix, M Schmeding, E Reitsamer, CJ Bruns, JF Lock, B Reichert, M Ghadimi, K Wille, I Gockel, JR Izbicki, S Utzolino, P Grimminger

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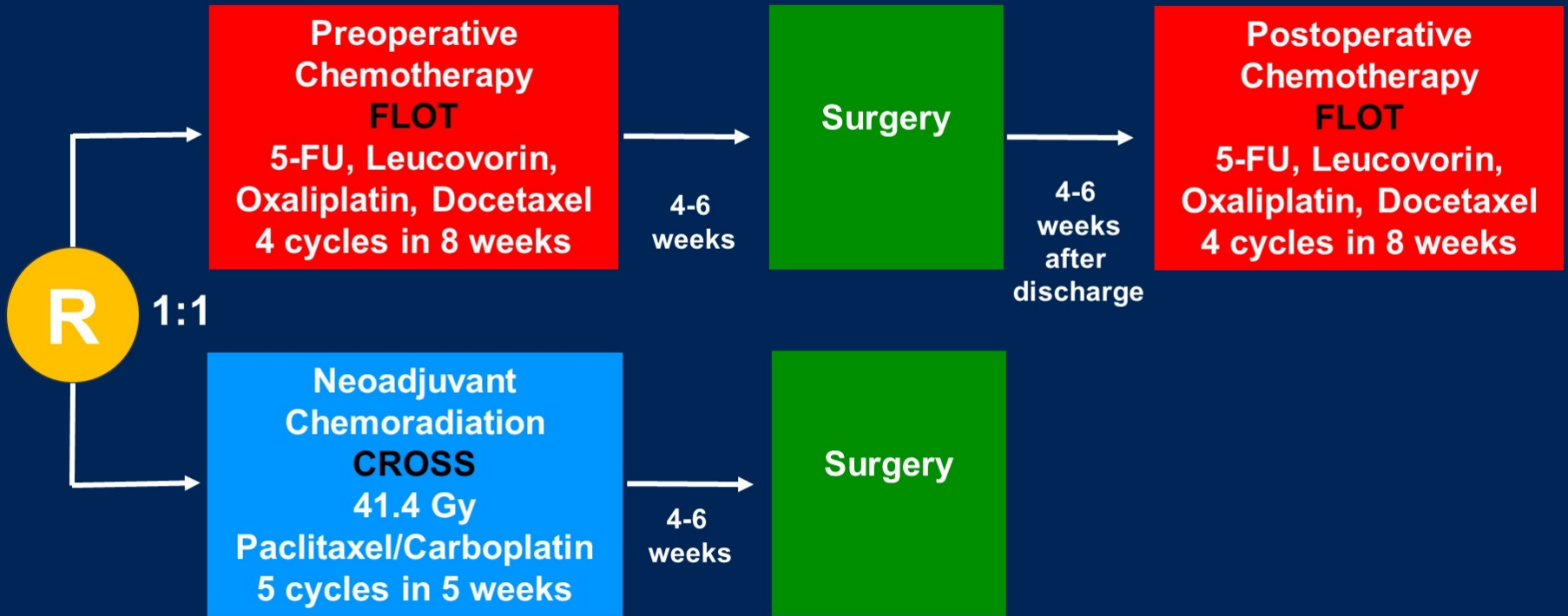
PRESENTED BY: Jens Hoepfner MD FACS FEBS

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ESOPEC Trial Scheme



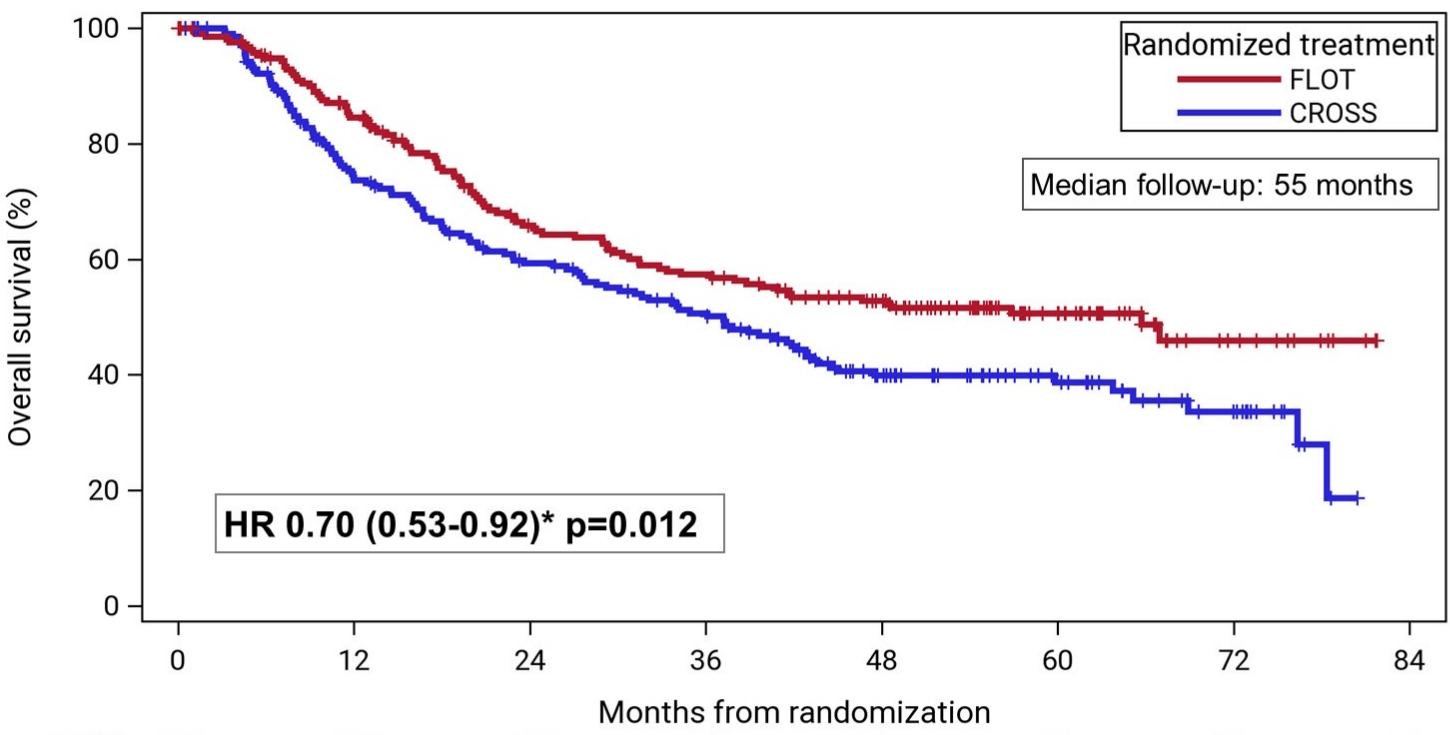
Treatment Exposure

	FLOT Group	CROSS Group
N	221	217
Started neoadjuvant treatment (PP population*)	93.7 %	90.3 %
Completed neoadjuvant treatment	87.3 %	67.7 %[#]
Received neoadjuvant treatment plus surgery	86.0 %	82.9 %
Received adjuvant treatment	63.3 %	
Completed adjuvant treatment	52.5 %	

*Per protocol population according to Clinical Trial Protocol and Statistical Analysis Plan

[#]Completion rate (41.4Gy) of radiotherapy **98%**

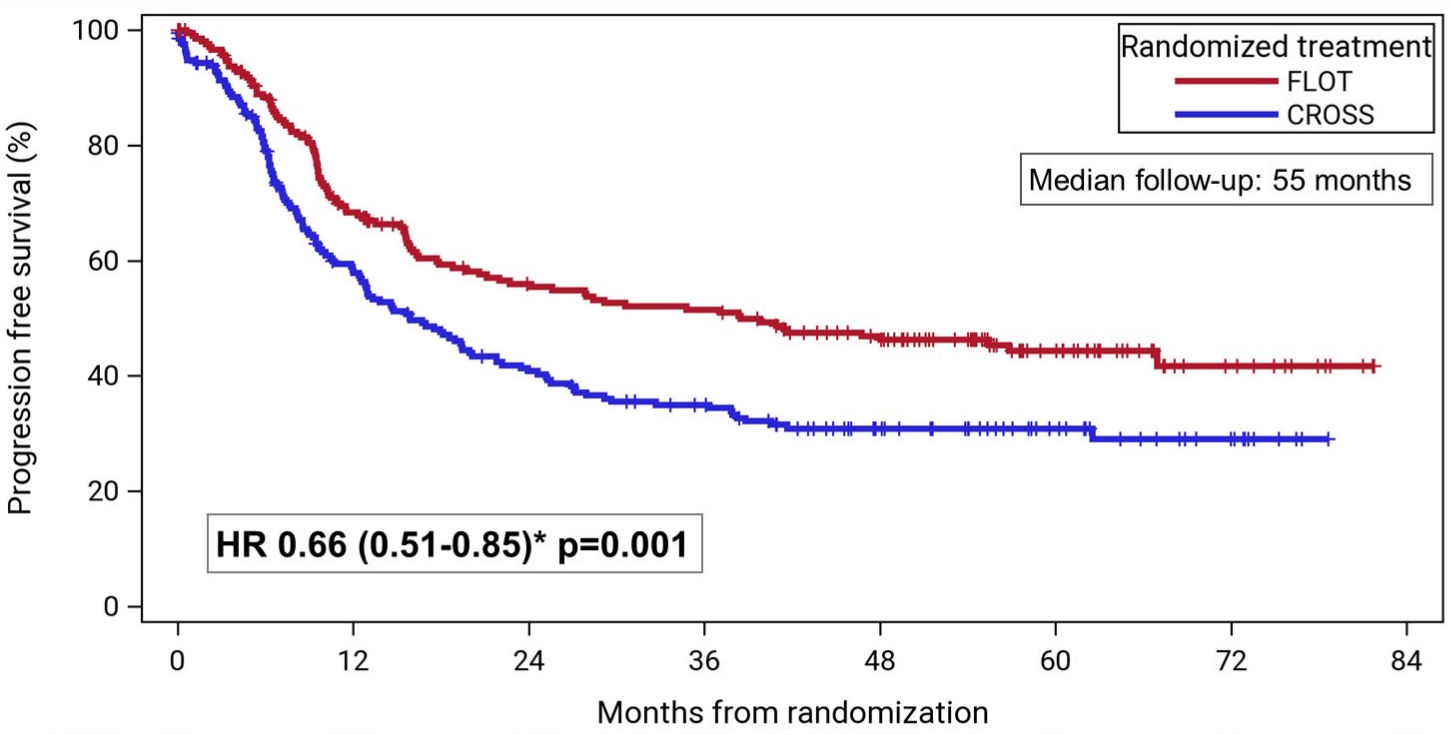
Overall Survival - ITT Population



FLOT	221	172	124	107	84	44	11	0
CROSS	217	146	113	92	54	32	15	0

	FLOT	CROSS
Events	97	121
Median OS time (months)	66 95% CI 36 – n.e	37 95% CI 28 – 43
3-year OS rate	57.4%	50.7%
5-year OS rate	50.6%	38.7%

Progression Free Survival – ITT Population



	0	12	24	36	48	60	72	84
FLOT	221	135	101	93	73	39	11	0
CROSS	217	113	78	62	39	22	9	0

	FLOT	CROSS
Events	107	137
Median PFS time (months)	38 95% CI 21 – n.e.	16 95% CI 12 – 22
3-year PFS rate	51.6%	35.0%
5-year PFS rate	44.4%	30.9%

Postoperative Complications – Surgery Population ¹⁹

	FLOT Group	CROSS Group
N	191	180
Postoperative morbidity		
Clavien Dindo I	20.9%	20.0%
Clavien Dindo II	13.6%	15.0%
Clavien Dindo III	23.0%	23.3%
Clavien Dindo IV	6.8%	4.4%
Postoperative mortality		
30-days	1.0%	1.7%
90-days	3.2%	5.6%

Summary of Trial Results

	ESOPEC Trial				
	FLOT Group	CROSS Group	CROSS Trial (CRT Group - AC)	Neo-AEGIS Trial (CRT Group)	FLOT-4 (FLOT Group)
Completed pre-op treatment	87.3%	67.7%	92%	87% (RT - 99%)	90%
Completed post-op treatment	52.5%				46%
pCR	16.8%	10%	23%	12%	16%
Median OS	66 mos	39 mos	43 mos	49 mos	50 mos
3-year OS	57.4%	50.7%	54%	57%	57%

ESOPEC study

- Lack of benefit for RT has now been definitively established by ESOPEC
- NeoAEGIS – where 85% of Pts received MAGIC-type regimen – showed no PFS/OS difference between chemoRT and peri-op chemo
- Unanswered questions:
 - Is adjuvant nivolumab after chemoRT and surgery superior to peri-op chemo? [Checkmate 577]
 - Is durvalumab + peri-op chemo superior to peri-op chemo? [MATTERHORN]
 - What if a Pt isn't a candidate for FLOT?
 - How does PET-directed therapy compare? [CALGB 80803]



Best of Both Worlds: FLOT + CROSS

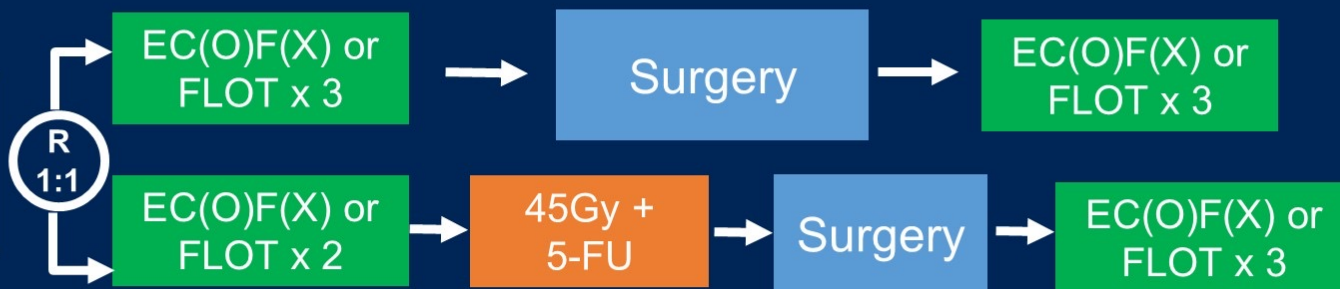
TNT-OES-2 Trial: Phase II

- N+ EAC/EJC
- N = 216



TOPGEAR: Phase III

- Locally Advanced Gastric/EJC



NCT06161818; Leong T, *Annals of Surgery*, 2017

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Effect of chemotherapy/targeted therapy alone vs. chemotherapy/targeted therapy followed by radical surgical resection on survival and quality of life in patients with limited-metastatic adenocarcinoma of the stomach or esophagogastric junction – The IKF-575 / RENAISSANCE phase III trial

Salah-Eddin Al-Batran, Sylvie Lorenzen, Jorge Riera Knorrenschild, Karel Caca, Christian Mueller, Daniel E Stange, Thomas Zander, Claus Bolling, Nils Homann, Jochen Gaedcke, Peter C. Thuss-Patience, Patrick Michl, Wolfgang Blau, Kai Wille, Christine Koch, Claudia Pauligk, Daniel W. Mueller, Ulli Simone Bankstahl, Stefan Paul Mönig, Thorsten Oliver Goetze

On behalf of the FLOT-AIO German Gastric Study Group

Presented by
Salah-Eddin Al-Batran, MD
Northwest Hospital Frankfurt, University Cancer Center (UCT) Frankfurt and
The Frankfurt Institute for Clinical Cancer Research IKF

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Prof. Dr. Salah-Eddin Al-Batran

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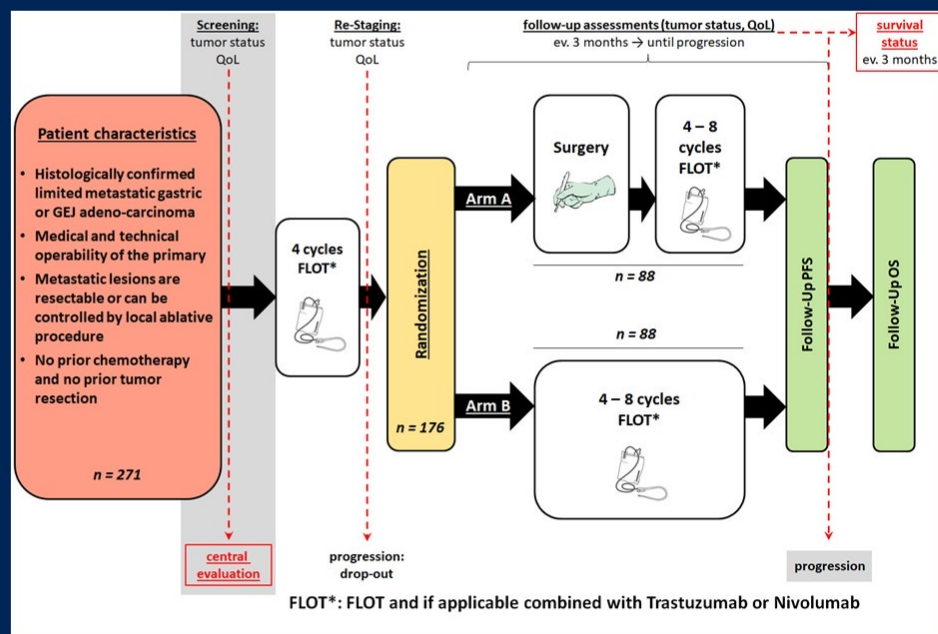
IKF FLOT-AIO
German Gastric Cancer Group

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Study Flow Chart

RENAISSANCE is an investigator-initiated phase III trial



Stratification criteria:

- tumor location: GC vs. GEJ adenocarcinoma
- response to preoperative FLOT: CR/PR vs. SD
- distant lymph node metastases (RPLN) only vs. additional organ involvement

Note: sample sizes are initially planned numbers

Actually enrolled: 182; actually randomized: 141 (69 Arm A; 72 Arm B)

Definition of the limited metastatic status

Pre-defined subgroups

1. Retroperitoneal lymph node (RPLN) metastases

e.g. para-aortal, intra-aorto-caval, parapancreatic or mesenterial lymph nodes

Note: in duodenum invading gastric cancer or retropancreatic nodes were not regarded M1

or/and

2. at maximum one organ involved with or without RPLN metastases according to the following schema:

- I. Localized potentially operable peritoneal carcinomatosis: stage P1 according to classification of the „Japanese Research Society for Gastric Cancer“ (Clinically visible carcinomatosis of the peritoneum or of the pleura and >P1 peritoneal carcinomatosis were not allowed!) or
- II. Liver: maximum of 5 metastatic lesions that are potentially resectable or
- III. Lung: unilateral involvement, potentially resectable or
- IV. Uni- or bilateral Krukenberg tumors (ovarian met.) in the absence of macroscopic peritoneal carcinomatosis or
- V. Uni- or bilateral adrenal gland metastases or
- VI. Extra-abdominal lymph node metastases such as supraclavicular or cervical lymph node involvement or
- VII. Localized bone involvement (defined as being within one radiation field) or
- VIII. Other metastatic disease location that is considered limited by the investigator and is confirmed by the review committee

Treatment

Treatment cycle completed (ITT)	Arm A (N= 67)	Arm B (N= 72)	Total (N= 139)
Mean	6.4	8.9	7.7
Range	4-12	4-12	4-12
Pre-randomization cycle 1	67 (100%)	72 (100%)	139 (100%)
Pre-randomization cycle 2	67 (100%)	72 (100%)	139 (100%)
Pre-randomization cycle 3	67 (100%)	72 (100%)	139 (100%)
Pre-randomization cycle 4	67 (100%)	72 (100%)	139 (100%)
Cycle 5 (Post-randomization cycle 1)	44 (66%)	60 (83%)	104 (75%)
Cycle 6 (Post-randomization cycle 2)	42 (63%)	58 (81%)	100 (72%)
Cycle 7 (Post-randomization cycle 3)	35 (52%)	55 (76%)	90 (65%)
Cycle 8 (Post-randomization cycle 4)	29 (43%)	53 (74%)	82 (59%)
Cycle 9 (Post-randomization cycle 5)	10 (15%)	41 (57%)	51 (37%)
Cycle 10 (Post-randomization cycle 6)	6 (9%)	37 (51%)	43 (31%)
Cycle 11 (Post-randomization cycle 7)	4 (6%)	30 (42%)	34 (24%)
Cycle 12 (Post-randomization cycle 8)	3 (4%)	28 (39%)	31 (22%)

End of study treatment and further therapy

	Arm A (N= 67)	Arm B (N= 72)	Total (N= 139)
Reason for end of therapy			
Per protocol	22 (33%)	37 (51%)	59 (42%)
Patient wish or toxicity	20 (30%)	22 (31%)	42 (30%)
Progression/recurrence	16 (24%)	11 (15%)	27 (19%)
Other	5 (7%)	2 (3%)	7 (5%)
Death	4 (6%)	-	4 (3%)
At least one further anticancer therapy	35 (52%)	59 (82%)	94 (68%)

Surgery (ITT)

	Arm A (N= 67)	Arm B (N= 72)	Total (N= 139)
Surgery executed	61 (91%)	15 (21%)	76 (55%)
Timing of surgery			
After cycle 4 (after rando)	61 (100%)	12 (80%)	73 (96%)
Later time point ¹	-	2 (13%)	2 (3%)
If surgery was not executed, reasons:			
Patient wish	4 (6%)	n.a.	
Progression	2 (3%)	n.a.	
Resection executed	59 (97%)	15 (100%)	74 (97%)

¹both after cycle 6

Surgery (Surgery Population)

	Arm A (N= 61)	Arm B (N= 15)	Total (N= 76)
Complication due to surgery	36 (59%)	6 (40%)	42 (55%)
Type of complication			
Surgical	5 (8%)	1 (7%)	6 (8%)
Medical	9 (15%)	3 (20%)	12 (16%)
Surgical and medical	22 (36%)	2 (13%)	24 (32%)
Re-Surgery	12 (20%)	-	12 (16%)
30-day mortality	1 (2%)	1 (7%)	2 (3%)
90-day mortality	5 (8%)	1 (7%)	6 (8%)

Overall Survival

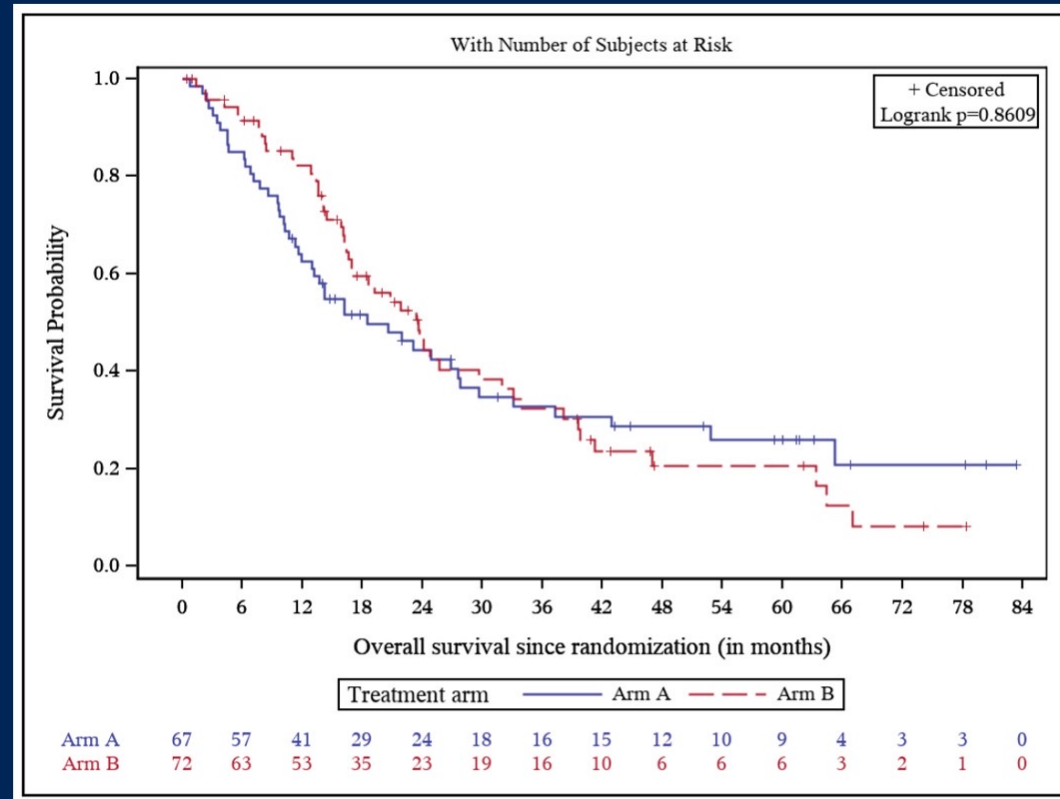
Primary Endpoint: Overall survival
(since randomization)

	Arm A (N= 67)	Arm B (N= 72)
Time until event, months [95% CI]		
25% Quantile	9.5 [4.6, 11.6]	14.0 [8.3, 16.4]
Median	18.5 [11.9, 27.7]	23.6 [16.6, 31.9]
75% Quantile	65.2 [27.7, -]	41.2 [31.9, 67.0]

Log Rank Test: p = 0.8609

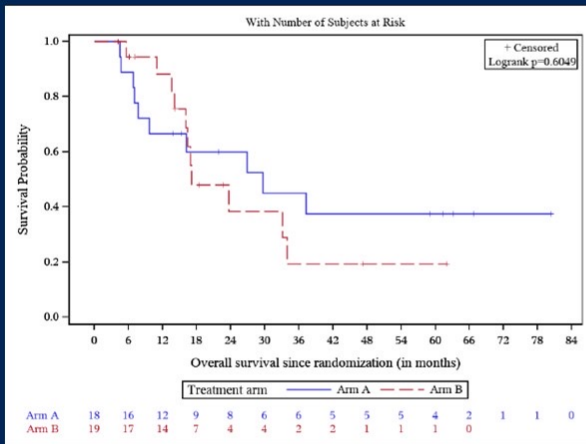
Cox Proportional Hazard Model:

Hazard Ratio (95% CI), 1.037 (0.691 - 1.556), p = 0.8610



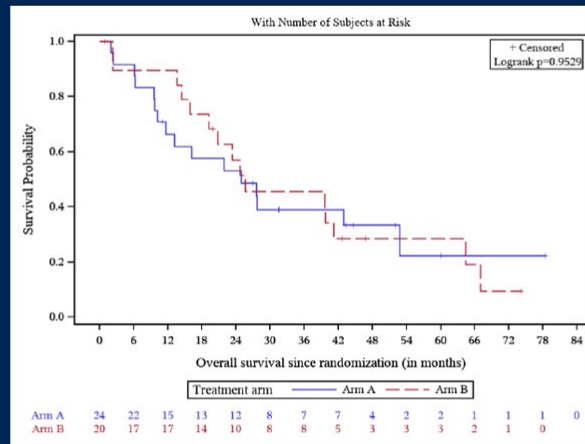
Overall Survival: Subgroup analyses

RPLN only (subgroup 1)



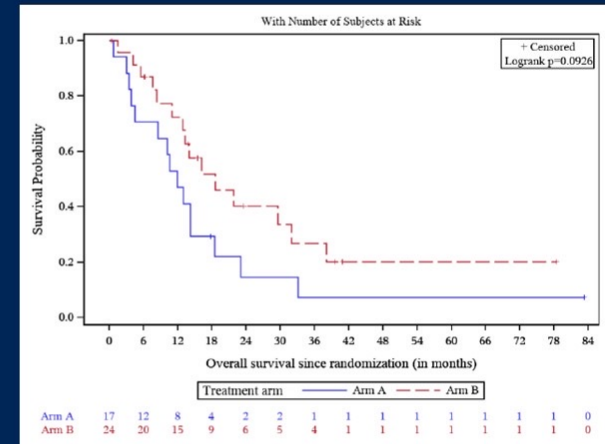
Median OS 29.6 vs. 17.1 months
36-mon OS 45% vs. 19%

Liver metastases (subgroup 2.II)



Median OS 24.9 vs. 25.7 months
36-mon OS 39% vs. 46%

Peritoneal metastases (subgroup 2.I)



Median OS 11.9 vs. 18.6 months
36-mon OS 7% vs. 27%

Data for Arms A vs. B, respectively

RENAISSANCE study

- Resecting oligometastatic dz should NOT be standard
- Considerations for this population:
 - Should ideally be treated on a study, e. EA2183
 - Should exclude Pts with peritoneal carcinomatosis
 - Should treat Pts with visceral metastases with great caution
 - Should administer ≥ 6 mos of best systemic therapy and have ongoing dz control
 - Should be decided by an experienced MDT
 - Should include surgery, definitive chemoRT and ablation

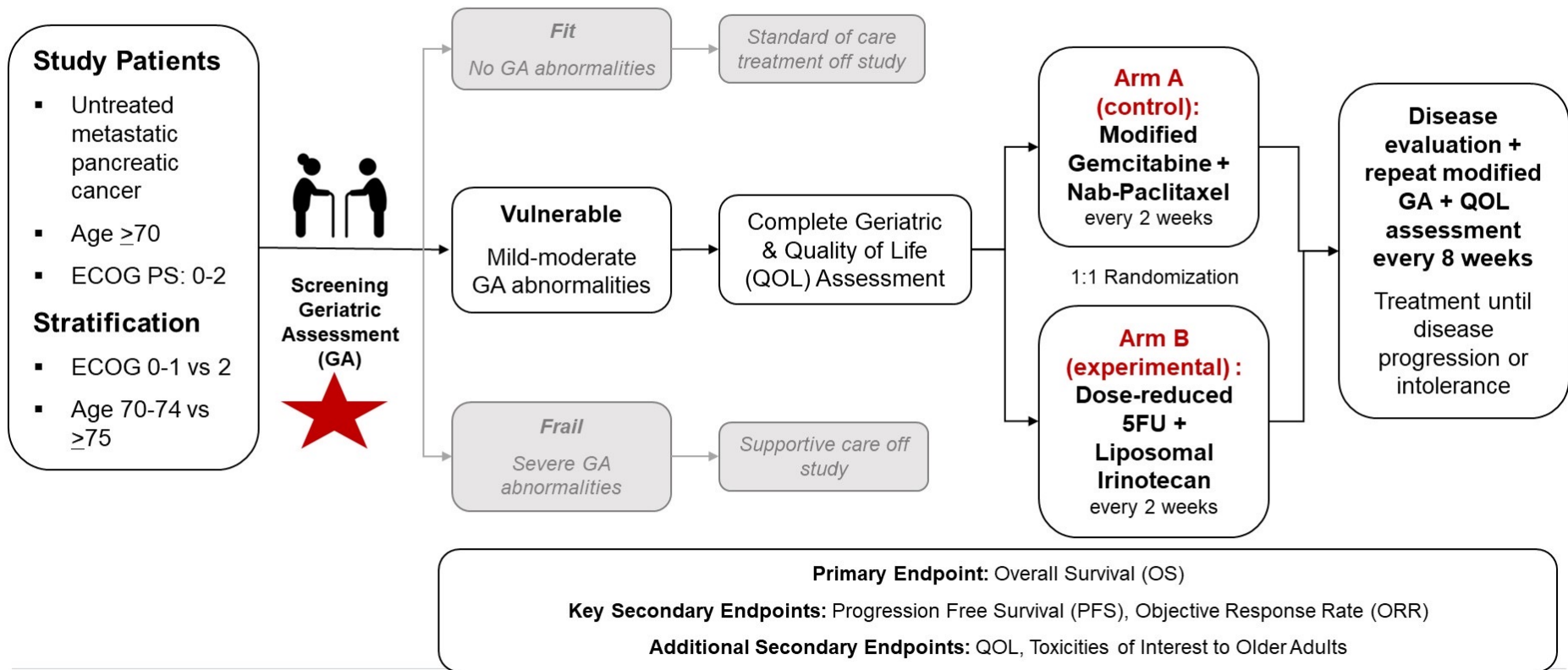


A randomized phase II study of gemcitabine and nab-paclitaxel compared with 5-fluorouracil, leucovorin, and liposomal irinotecan in older patients with treatment-naive metastatic pancreatic cancer (**GIANT**) ECOG-ACRIN EA2186

Efrat Dotan¹, Paul J. Catalano², Leon Lenchik³, Robert Boutin⁴, Xin Yao⁵, James P. Ohr⁶, Kian-Huat Lim⁷, Namrata Vijayvergia¹, Sreenivasa R. Chandana⁸, Aparna Kalyan⁹, Richard F. Dunne¹⁰, David B. Zhen¹¹, Daneng Li¹², Melissa A. Simon⁹, Jordan Berlin¹³, Lynne I. Wagner³, Peter J. O'Dwyer¹⁴.

¹Fox Chase cancer Center, ²Dana Farber Cancer Institute – ECOG ACRIN Biostatistics Center, ³Wake Forest University Health Sciences, ⁴Stanford University, ⁵ThedaCare Regional Cancer Center, ⁶UPMC Hillman Cancer Center, ⁷Washington University School of Medicine, ⁸Trinity Health Muskegon Hospital, ⁹Northwestern University, ¹⁰University of Rochester, ¹¹Fred Hutchinson Cancer Center, ¹²City of Hope Comprehensive Cancer Center, ¹³Vanderbilt University/Ingram Cancer Center, ¹⁴University of Pennsylvania Abramson Cancer Center.

EA2186 (GIANT) - Study Design



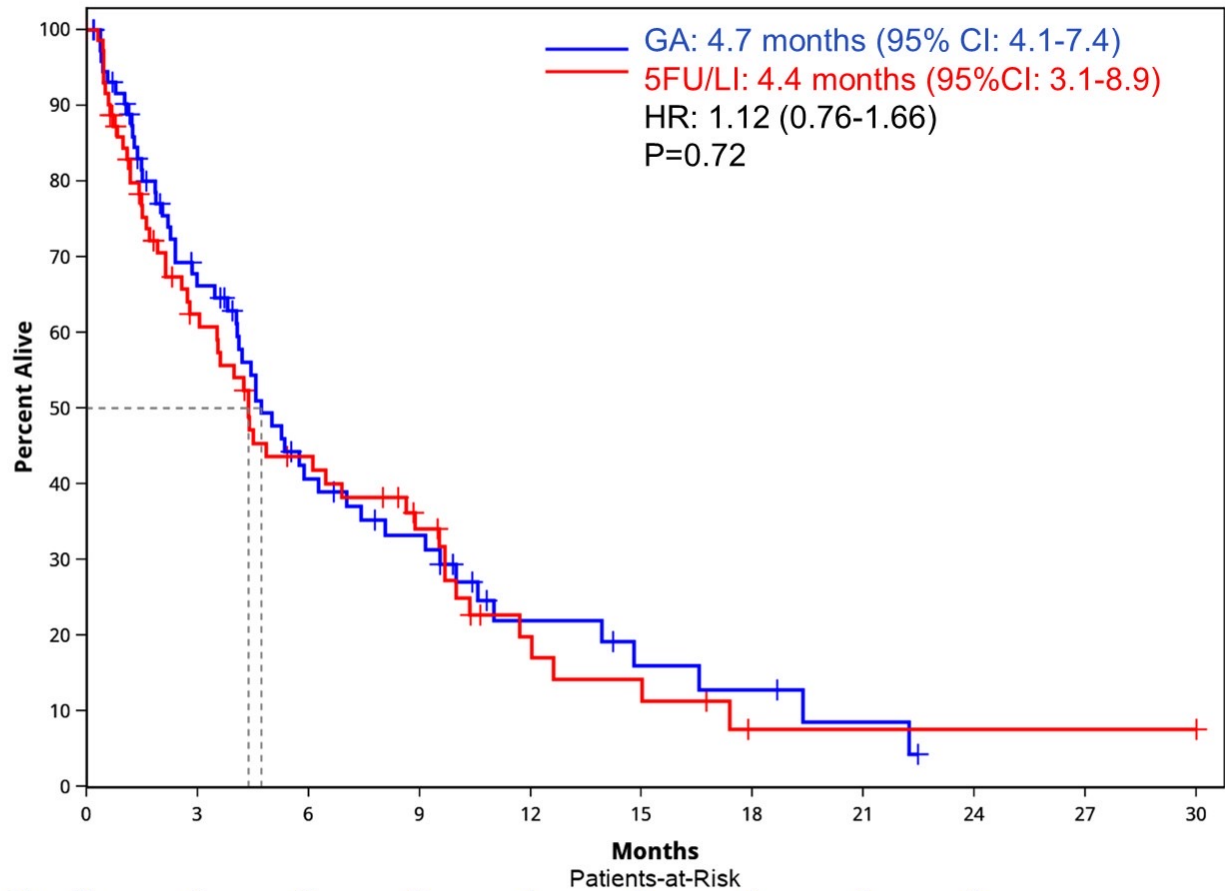
EA2186 (GIANT) - Screening Geriatric Assessment

Domain	Assessment Tool	Fit - <u>no</u> abnormalities	Vulnerable- <u>any</u> mild-moderate abnormalities	Frail- <u>any</u> severe abnormalities
Function ¹	ADL IADL (Female/Male)	6 8 /5	5 6-7/4	≤4 ≤5/≤3
Co-morbidities ²	CIRS-G	No score 3-4 AND <5 comorbidities with a score of 2	No score 3-4 AND 5-8 comorbidities with a score of 2	≥1 score 3-4 OR >8 comorbidities with a score of 2
Cognition ³	Blessed Orientation Memory Concentration Test	0-4	5-10	≥11
Age ^{2*}			≥80	
Geriatric Syndromes ⁴	<ul style="list-style-type: none"> Falls (>3 in 6m) Urinary/Fecal incontinence 	None	None	Presence of any of these would exclude patients

¹Corre et al. JCO 2016

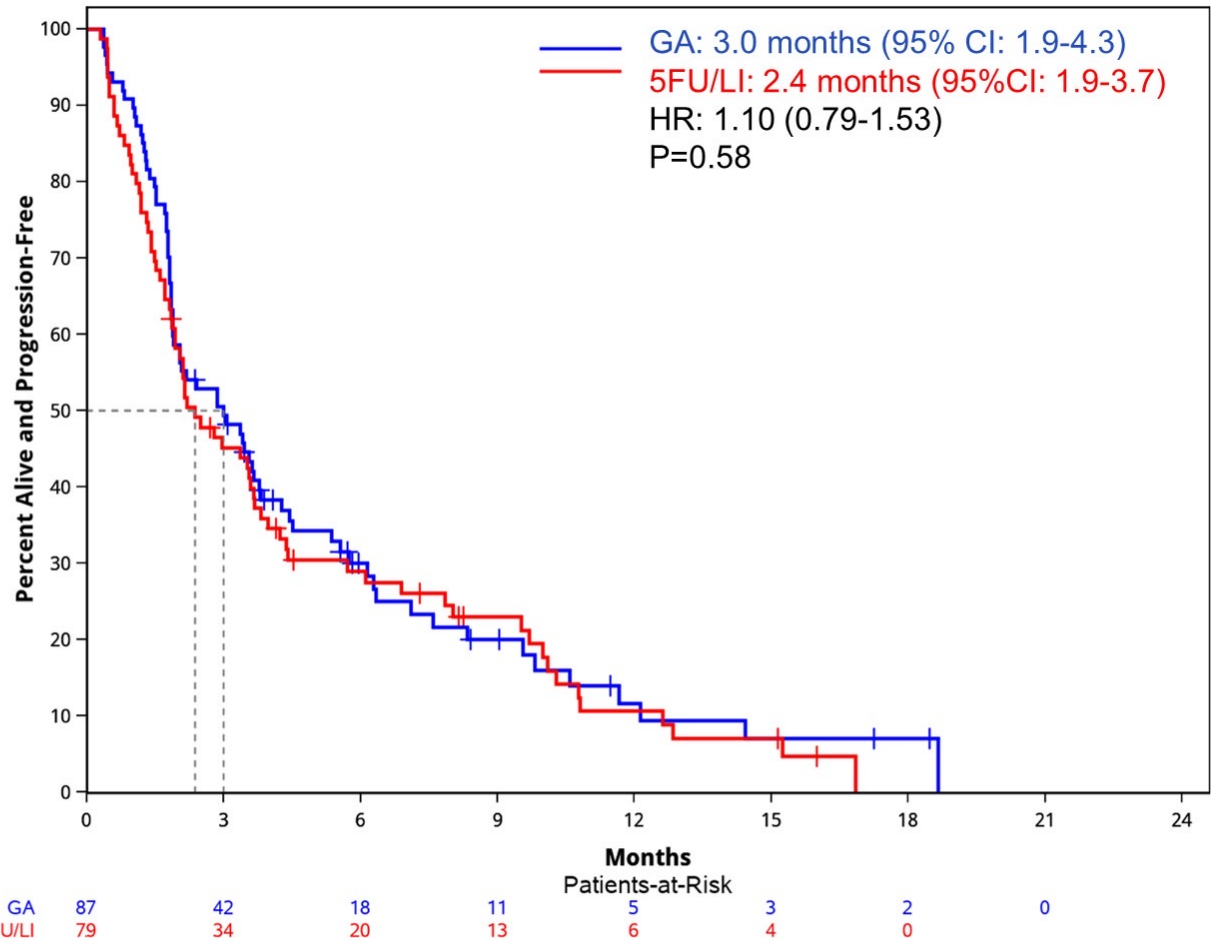
²Tucci et al; Leukemia and Lymphoma 2015. ³ Mohile et al; JCO 2018. ⁴GrantPax study - Betge et al. BMC 2018

Primary end point OS - ITT



Months	0	3	6	9	12	15	18	21	24	27	30
GA	76	42	23	17	8	5	4	2	0	0	0
5FU/LI	78	37	24	16	7	5	1	1	1	1	1

Secondary end point PFS - ITT



GIANT study

- Investigators, Pts and their families are to be congratulated and thanked for participating in this important study
- It was designed to show superiority of 5-FU/Nal-IRI, which was not proven
- While outcomes were comparable in both arms, they were very poor; study was closed for futility!
- Palliative care is a critical component for these Pts
- Is BSC alone appropriate?
- Is there a subset of Pts we can identify with standard clinical factors who might benefit from tx?





Advancing Research. Improving Lives.™

NRG Oncology/RTOG 0848 Trial: Adjuvant Chemotherapy +/- Chemoradiation For Patients With Resected Head of Pancreas Adenocarcinoma - Results of the RT + 5FU/Capecitabine Randomization Step

Ross A Abrams, MD, Kathryn A Winter, MS, Karyn A Goodman, MD, William F Regine, MD, Howard P Safran, MD, Adam C Berger, MD, Chandan S Guha, MD, PhD, Lisa A Kachnic, MD, Michael T Gillin, PhD, Samantha A Seaward, MD, Abraham J Wu, MD, Jennifer J Wu, MD, Raid M Aljumaily, MD, Thomas A Dipetrillo, MD, Ravit Geva, MD, Pramila Rani Anne, MD, Jennifer Yannucci, MD, Darla K Liles, MD, Jennifer Moughan, MS, Christopher H Crane, MD



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6/4/2024



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SCHEMA

Patients with resected pancreatic head adenocarcinomas

R
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FIRST STEP: ADJUVANT SYSTEMIC TREATMENT*

Arm 1:
Gemcitabine alone

Arm 2:
Gemcitabine + Erlotinib x 5
cycles (Arm 2 closed to
accrual effective 4/02/14)

Abrams et al.,
*Am J Clin
Oncol 2020*;
43:173-179

REASSESS AND IF NO PROGRESSION, THEN:

S
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Y

Nodal Status:

- 1: involved
- 2: uninvolved

CA19-9 result:

- 1: ≤ 90
- 2: $> 90 - 180$

Surgical margins:

- 1: positive (R1)
- 2: negative (R0)

Adjuvant Systemic Treatment:

- 1. Gemcitabine alone
- 2. FOLFIRINOX or mFOLFIRINOX
- 3. Non-oxaliplatin gemcitabine combinations

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SECOND STEP: RT RANDOMIZATION For Non-Progressing Patients

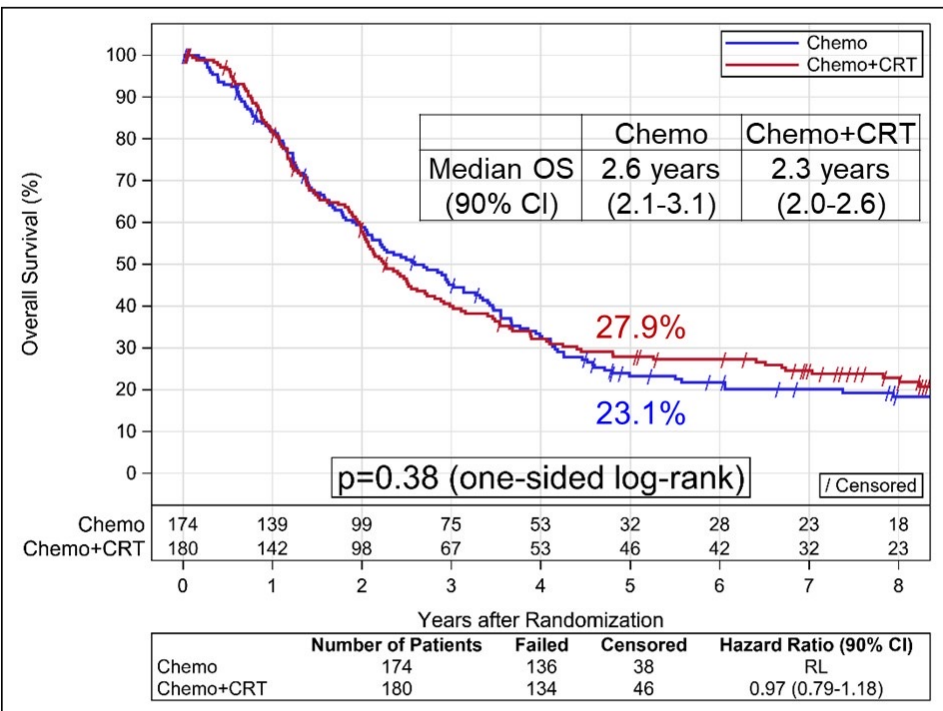
Arm 3:
1 month of gemcitabine or
combination chemotherapy

Arm 4:
1 month of gemcitabine or
combination chemotherapy
followed by XRT with either
capecitabine or 5-FU

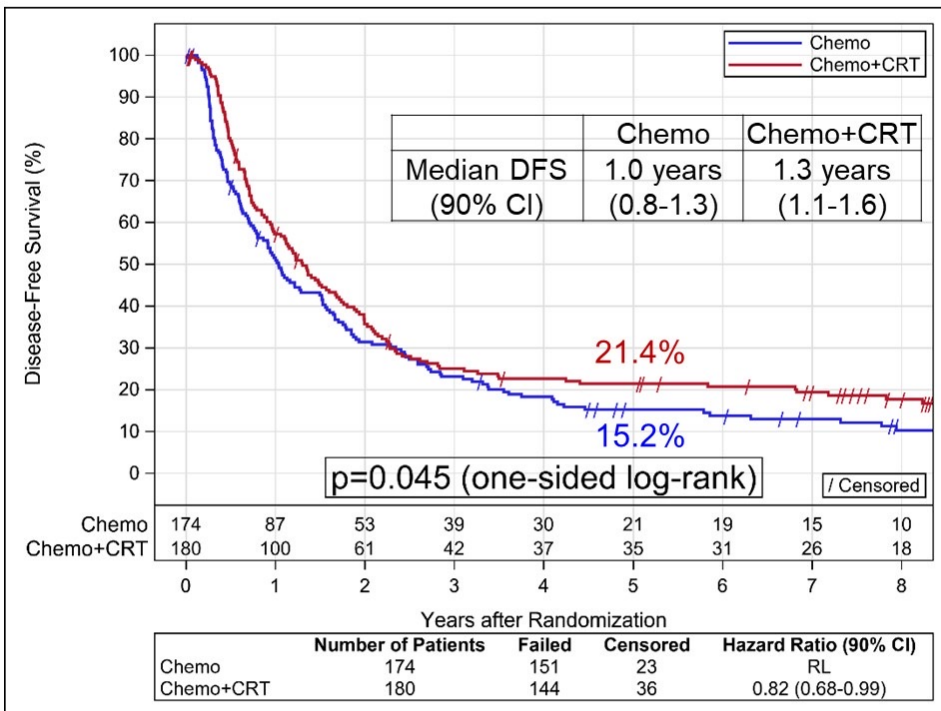
Results: Adjuvant Systemic Treatment Received

	Chemo	Chemo+CRT	Total
Enrollment Timing	174	180	354
Before June 28, 2016	148	161	309
After June 28, 2016	26	19	45
Regimen Received			
Gemcitabine	116	120	236 (67%)
Gemcitabine+Erlotinib	50	50	100 (28%)
Non Oxaliplatin Gem Combo	8	10	18 (5%)
FOLFIRINOX / mFOLFIRINOX	0	0	0 (0%)

Results: OS and DFS for All Patients

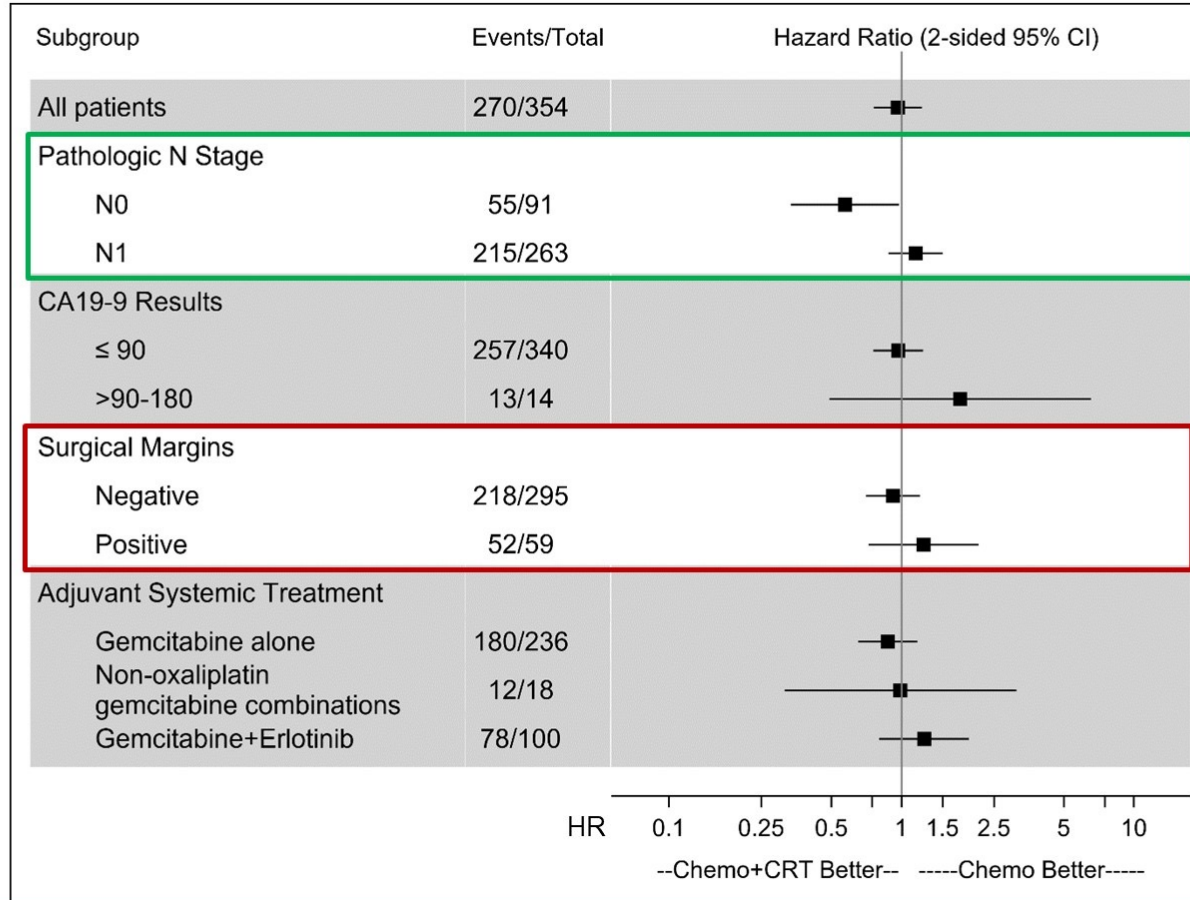


Overall Survival

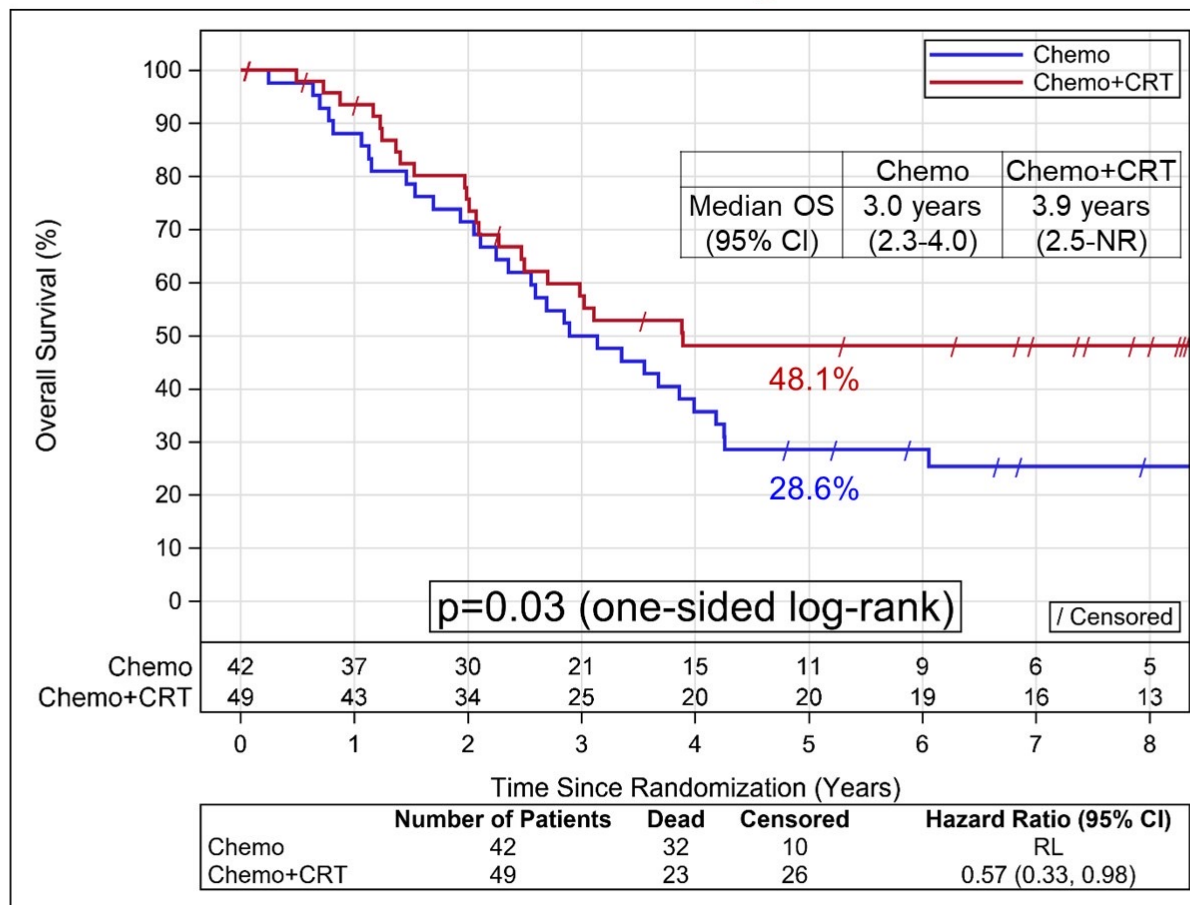


Disease-Free Survival

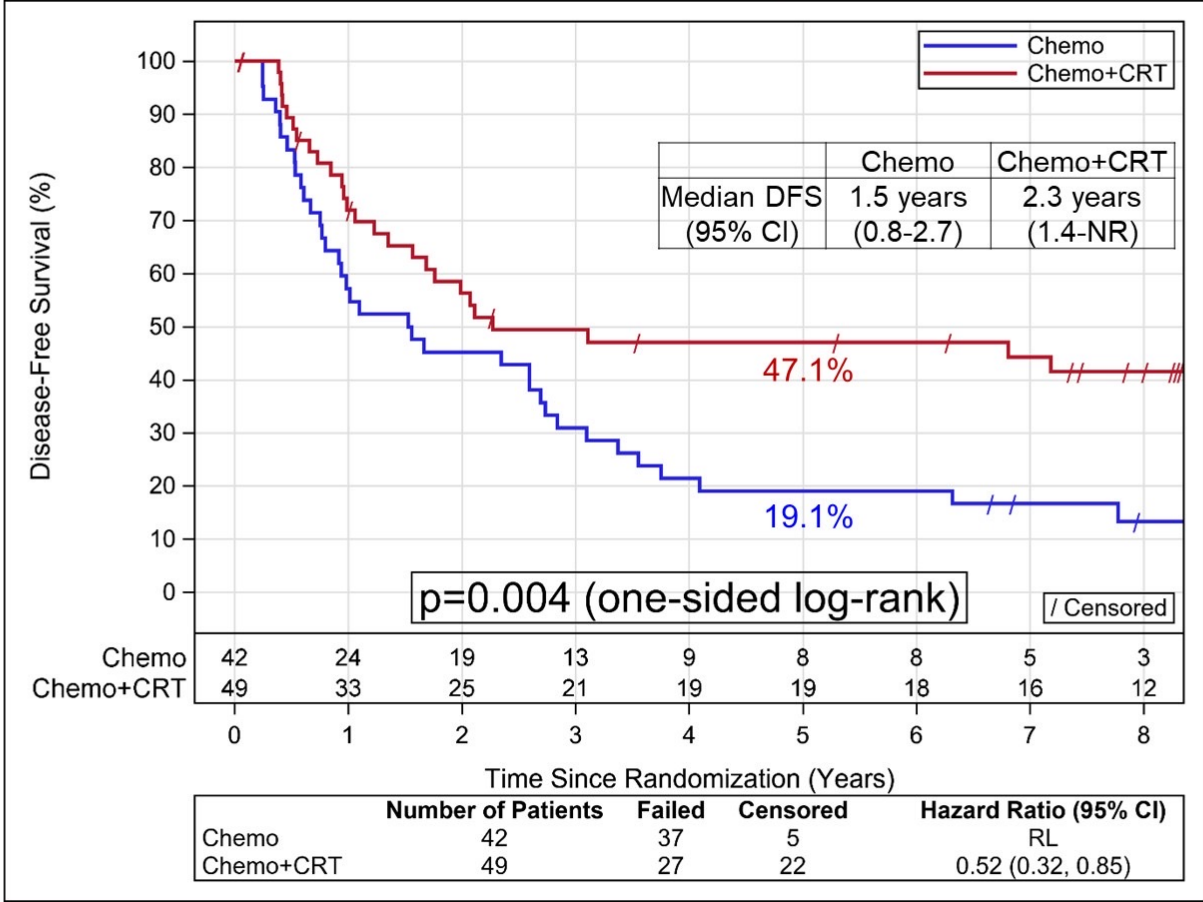
Results: Forest Plot for OS Treatment Effect



Results: OS for Node Negative Patients



Results: DFS for Node Negative Patients



RTOG 0848 study

- Long accrual time and changing practice patterns, e.g. adjuvant FOLFIRINOX, make this study difficult to interpret
- DFS/OS benefit for chemoRT in LN –ve Pts is hypothesis-generating:
 - Is there decreased local +/- distant recurrence in these Pts?
- Is there a role for standard chemoRT s/p FOLFIRINOX in this subgroup?
- Given lack of benefit in Pts with +ve margins, should we stop offering chemoRT to them?





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Thank you!

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