



ISSP



Is there a Role for Regional Therapy in Gastric Cancer? (CON)

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Disclosures

- Grant/Research Support from Merck.
- Consultant for Amgen, Astellas, AstraZeneca, Merck, and Roche.
- On the Speakers Bureau for Bristol Myers Squibb, and Merck.

This presentation and/or comments will be free of any bias toward or promotion of the above referenced companies or their products and/or other business interests.

This presentation and/or comments will provide a balanced, non-promotional, and evidence-based approach to all diagnostic, therapeutic and/or research related content.

This presentation has been peer-reviewed and no conflicts were noted.





Cultural Linguistic Competency (CLC) & Implicit Bias (IB)

STATE LAW:

The California legislature has passed <u>Assembly Bill (AB) 1195</u>, which states that as of July 1, 2006, all Category 1 CME activities that relate to patient care must include a cultural diversity/linguistics component. It has also passed <u>AB 241</u>, which states that as of January 1, 2022, all continuing education courses for a physician and surgeon **must** contain curriculum that includes specified instruction in the understanding of implicit bias in medical treatment.

The cultural and linguistic competency (CLC) and implicit bias (IB) definitions reiterate how patients' diverse backgrounds may impact their access to care.

The following CLC & IB components will be addressed in this presentation:

• Underrepresented groups impacted by stomach cancer.





Is HIPEC therapy in its current form ready for prime time in gastric cancer?

- Is more chemotherapy always better?
- What is cytoreductive surgery adding to stage IV disease?
- What is the latest randomized data for HIPEC?





More chemotherapy is not always better – Phase III JCOG 1013 Trial

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Study design

Statistical Plan

- Expected HR=0.845, assuming median survival of CS and DCS 13.5 and 16.5 months
- One-sided alpha 0.05, power 80%, Sample size: 740
- Actual accrual: 3/Apr/2012 18/Mar/2016

Patients

- Unresectable or recurrent gastric adenocarcinoma
- No prior chemotherapy or radiation therapy except adjuvant chemotherapy completed <u>>6</u> months before relapse
- HER2 negative or not tested
- Sufficient oral intake
- ECOG PS 0/1

Adjustment factors

- Institution
- ECOG PS (0 vs 1)
- Measurable lesion (yes vs no)
- Tumor stage (unresectable vs recurrent)
- Number of metastatic sites (0-1 vs \geq 2)
- Histology (intestinal vs diffuse)

Arm A: CS arm

Cisplatin: 60 mg/m² d8 S-1: 80, 100, 120 mg*/body d1-21 repeated every 5 weeks

Arm B: DCS arm

Docetaxel: 40 mg/m² d1 Cisplatin: 60 mg/m² d1 S-1: 80, 100, 120 mg*/body d1-14 repeated every 4 weeks

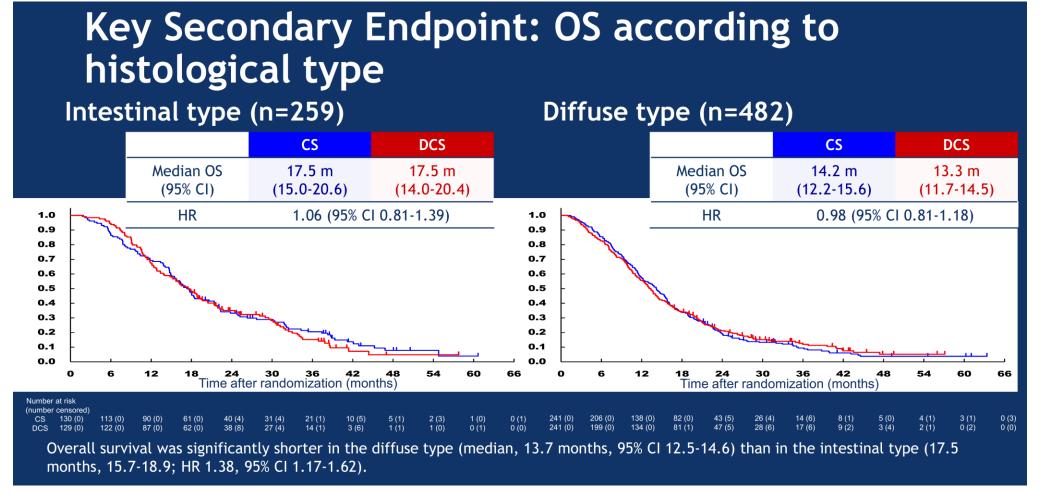
*Calculation based on body surface area



Yamada Y, et al. ASCO 2018. Abstract 4009 Advancing Innovative Therapies for Cancers That Invade the Peritoneum and the Pleura



More chemotherapy is not always better – Phase III JCOG 1013 Trial





Yamada Y, et al. ASCO 2018. Abstract 4009



More chemotherapy can be worse . . .

Grade ≥3 adverse events

CTCAE ver.4.0	CS	(n=367)	DCS (n=358)		
	n	(%)	n	(%)	
Leukocytes	60	(16.4)	120	(33.6)	
Neutrophils	117	(32.1)	209	(58.5)	
Hemoglobin	89	(24.4)	83	(23.2)	
Platelets	31	(8.5)	14	(3.9)	
Febrile neutropenia	21	(5.7)	27	(7.6)	
Hyponatremia	45	(12.3)	51	(14.3)	
Fatigue	42	(11.4)	40	(11.2)	
Anorexia	81	(22.1)	94	(26.3)	
Diarrhea	27	(7.4)	25	(7.0)	
Nausea	27	(7.4)	31	(8.7)	
Vomiting	9	(2.5)	8	(2.2)	
Mucositis oral	8	(2.2)	9	(2.5)	
Treatment-related death	1	(<1)	3	(<1)	

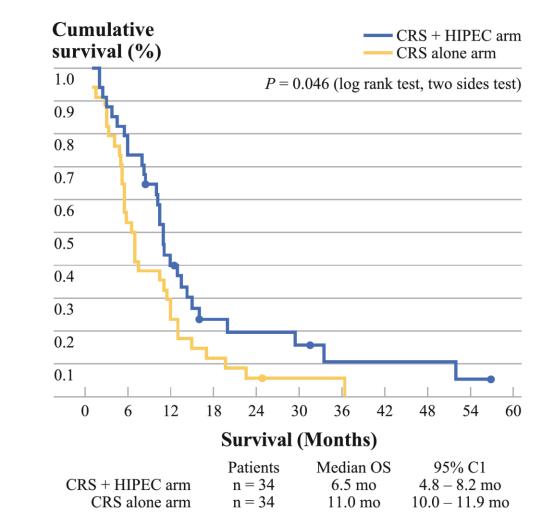


Yamada Y, et al. ASCO 2018. Abstract 4009



Chinese Phase III Gastric HIPEC Trial

- 34 patients in each arm, single center, single lead surgeon
- Control arm underperformed?
- No CONSORT Diagram
- 1 of 34 patients in CRS alone arm versus 5 of 34 patient in CRS + HIPEC arm alive at data cutoff





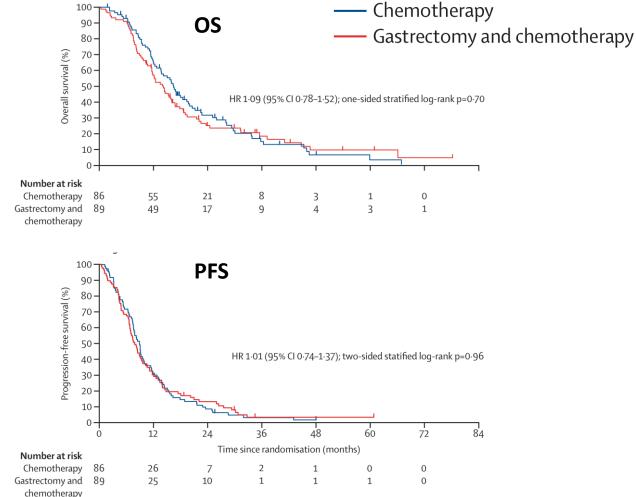
Yang X, et al. Ann Surg Oncol. 2011;18(6):1575-1581. Advancing Innovative Therapies for Cancers That Invade the Peritoneum and the Pleura



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What does gastrectomy add for stage IV gastric cancer – Phase III REGATTA Trial

- > 5 years to enroll 175 patients across Japan and Korea
- Enrollment limited to patients with peritoneal metastasis (P1) in the diaphragm or peritoneum caudal to the transverse colon without massive ascites or intestinal obstruction, cT1-3



Fujitani K, et al. Lancet Oncol. 2016;17(3):309-318.





Phase III REGATTA Trial – Subgroup Analyses

	Chemotherapy group		Chemotherapy pl gastrectomy grou					HR (95% CI)	p interaction
	Number of events	Number of patients	Number of events	Number of patients					
Age (years)									
≤59	36	44	33	40	+			1.56 (0.96-2.53)	0.058
≥60	35	42	40	49				0.82 (0.52-1.30)	
Country									
Japan	38	46	43	49		-		1.32 (0.85–2.05)	0.18
South Korea	33	40	30	40				0.85 (0.52-1.40)	
Non-curable factor*									
Liver metastasis (H1)	3	5	9	11 ·				1.16 (0.31–4.44)	0.65
Peritoneal metastasis (P1)		66	55	65				1.27 (0.87–1.84)	
Para-aortic lymph node	9	11	9	13 -				0.78 (0.30-2.04)	
metastasis (16a1/b2)					-				
Location of primary tumour									
Upper third	14	16	28	30	-			2.23 (1.14-4.37)	0.027
Middle third	40	49	23	30				0.95 (0.57-1.59)	
Lower third	17	21	22	29		_		0.63 (0.33–1.21)	
Clinical nodal stage				-	_			- ()	
N0-1	37	47	39	45	-			1.79 (1.14–2.83)	0.005
N2-3	34	39	34	44				0.70 (0.43-1.12)	
Histological type			•		_			,	
Intestinal	14	21	17	22				0.95 (0.46–1.97)	0.60
Diffuse	57	65	56	67				1.18 (0.81–1.71)	
Macroscopic type		-				_			
0–3 or 5	47	61	53	65				0.99 (0.66–1.47)	0.16
4	24	25	20	24				1.67 (0.90–3.12)	
Overall	71	86	73	89	•			1.09 (0.78-1.52)	
				0.25	0.5 1.0	2.0	4.0	8.0	
					Favours gastrectomy plus chemotherapy	Favours che	motherapy alone		

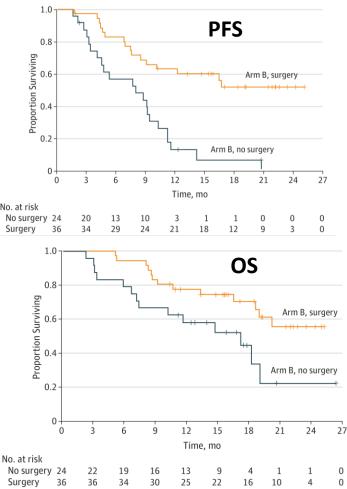


Fujitani K, et al. Lancet Oncol. 2016;17(3):309-318.



What does cytoreductive surgery add for stage IV gastric cancer – Phase II FLOT3 Trial

- 67 patients enrolled to limited metastatic cohort B, if response then complete surgical cytoreduction with HIPEC if appropriate
- P2 or lower, a few to several scattered metastases to the distant peritoneum, e.g. only ovarian metastases (Krukenberg)
- 2 of 4 patients with limited peritoneal disease underwent resection

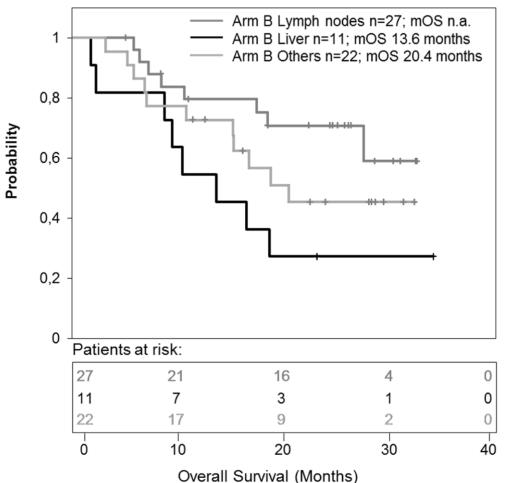






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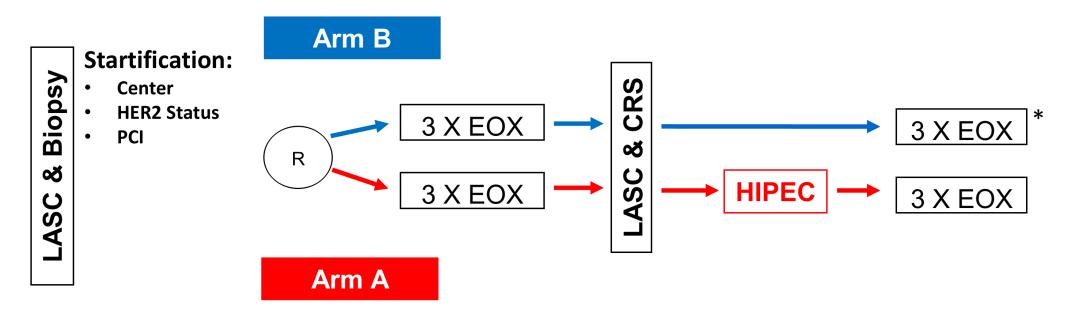
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Latest randomized data for CRS + HIPEC – Phase III GASTRIPEC I Trial



HER 2 Status negativ: Epirubicin 50 mg/m²; Oxaliplatin 130 mg/m²; Capecitabin 625 mg/m² q3w HER 2 Status positiv: Cisplatin 80mg/m²; Capecitabin 1000mg/m²po; Trastuzumab 3cycl:8-6-6 mg/kg q3w HIPEC: Cisplatin 75 mg/m² i.p.; Mitomycin 15 mg/m² i.p.; 60 minutes, > 41°C

1st patient in 4/2014; last patient in 06/20

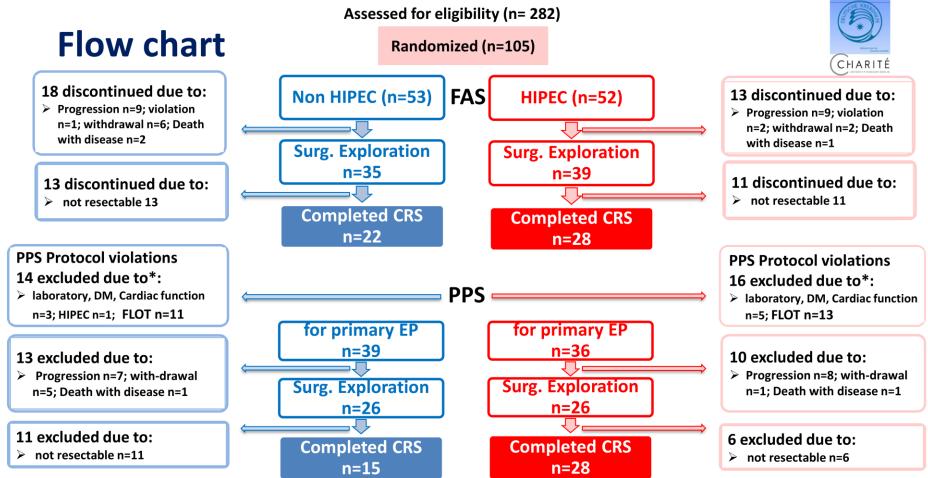
*Cunningham D, et al., N Engl J Med 2008;358:36-46



Rau B, et al. ESMO 2021. Abstract 13760



Latest randomized data for CRS + HIPEC – Phase III GASTRIPEC I Trial



FAS: Full Analysis Set; PPS: Per Protocoll Set; CRS: cytoreductive surgery; surg.: surgical; EP: end point; * multiple violations possible



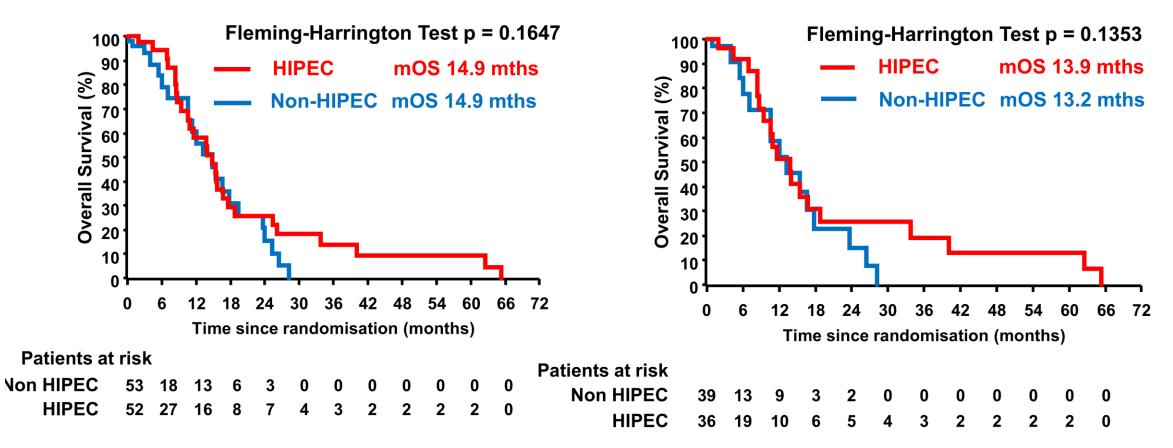
Rau B, et al. ESMO 2021. Abstract 13760 Advancing Innovative Therapies for Cancers That Invade the Peritoneum and the Pleura



Phase III GASTRIPEC I Trial – Primary Endpoint OS Analysis

FAS

PPS





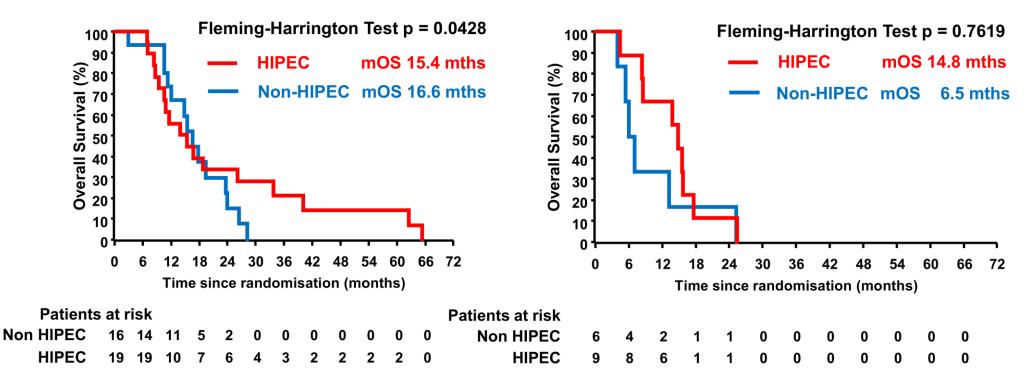
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Phase III GASTRIPEC I Trial –OS Analysis by CCR Subgroups

CCR=0

$CCR \ge 1$



5-yr survival ~10% in HIPEC vs. 0% in CRS alone arm, NNT = 10





Is HIPEC therapy in its current form ready for prime time in gastric cancer? - NO

- Is more chemotherapy always better? No, taxane triplets confer no survival advantage and more toxicity over doublet chemo regimens
- What is cytoreductive surgery adding to stage IV disease? Unclear benefit, primary tumor removal alone may even be detrimental despite patient selection
- What is the latest randomized data for HIPEC? Underpowered but not positive in intent to treat analysis, maybe beneficial for very select patients but selection factors unclear and high percentage of patients will not derive benefit



