

# **ASCO 2024 GI Cancers Updates**

**MLS Seattle** 

David B. Zhen, MD Associate Professor of Medicine Co-director, Neuroendocrine Tumor Program Gastrointestinal Medical Oncology Fred Hutch Cancer Center I University of Washington School of Medicine

September 7, 2024



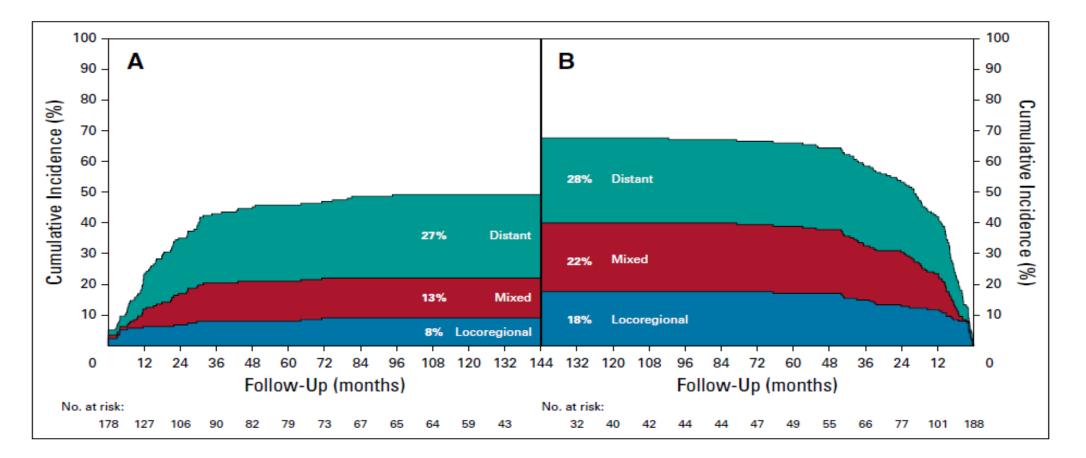
**UW** Medicine

#### Outline

- Gastroesophageal Cancer
  - <u>ESOPEC</u>: Perioperative FLOT versus neoadjuvant chemoradiotherapy (CROSS) for resectable esophageal adenocarcinoma
- Pancreatic Cancer
  - <u>RTOG 0848</u>: Adjuvant chemotherapy +/- chemoradiation for patients with resected head of pancreatic adenocarcinoma—results of the RT + 5-FU/capecitabine randomization step
  - <u>ECOG-ACRIN EA2186/GIANT Study</u>: Randomized phase 2 study of gemcitabine and nab-paclitaxel compared with 5-FU/LV + nanoliposomal irinotecan in older patients with treatment-naïve metastatic pancreatic cancer
- Hepatobiliary Cancer
  - <u>CheckMate 9DW</u>: Nivolumab + ipilimumab vs lenvatinib or sorafenib as first-line treatment for unresectable hepatocellular carcinoma
- Colorectal Cancer
  - <u>CheckMate 8HW:</u> Nivolumab + ipilimumab vs chemotherapy as first-line treatment of MSI-H/dMMR metastatic colorectal cancer: expanded efficacy analysis

# **Gastroesophageal Cancer**

#### **Distant Relapses Remain High Despite Neoadjuvant Chemoradiation**



Eyck BM et al. J Clin Oncol 2021; 39: 1995-2004



# Perioperative Chemotherapy (FLOT) versus Neoadjuvant Chemoradiotherapy (CROSS) for Resectable Esophageal Adenocarcinoma The ESOPEC Trial (NCT02509286)

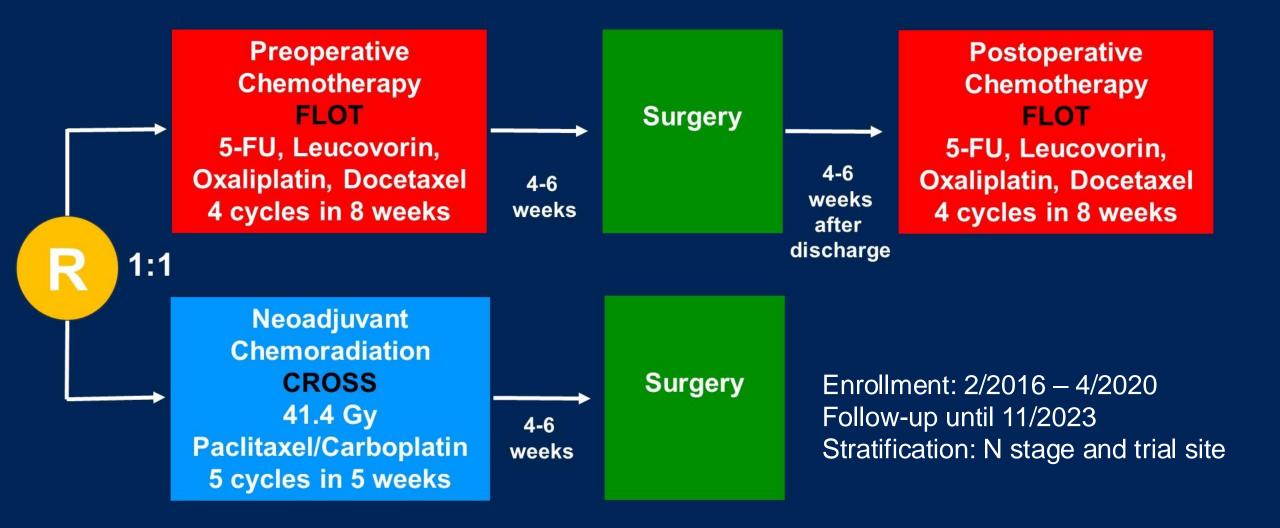
J Hoeppner, F Lordick, T Brunner, C Schmoor, B Kulemann, UP Neumann, G Folprecht, T Keck, F Benedix, M Schmeding, E Reitsamer, CJ Bruns, JF Lock, B Reichert, M Ghadimi, K Wille, I Gockel, JR Izbicki, S Utzolino, P Grimminger







## **ESOPEC Trial Scheme**





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### **Main Eligibility Criteria**

#### **Inclusion Criteria**

- Histology: Adenocarcinoma
- Esophageal cancer according UICC (TNM7)<sup>1,\*</sup>
- Clinical stage cT1N+ or cT2-4a, cN0/+, cM0

#### **Exclusion Criteria**

- Squamous or other nonadenocarcinoma histology
- Gastric cancer
- Clinical Stage cT1cN0 and cT4b
- Metastatic disease

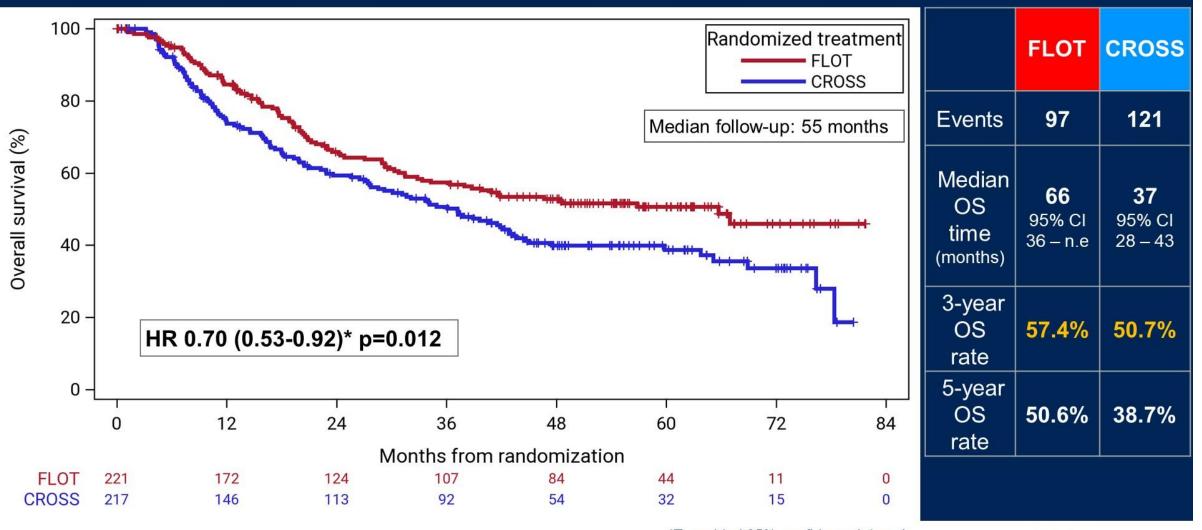
\*Tumors of the esophagus and tumors of which the epicenter is within 5 cm of the esophagogastric junction and also extend into the esophagus.



1. Sobin LH UICC TNM 7th edition 2009



### **Overall Survival - ITT Population**





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\*Two-sided 95% confidence interval; Cox regression adjusted for N stage and age, stratified for trial site



### **Pathology Results – Surgery Population**

	FLOT Group	CROSS Group
Ν	191	180
Resection status		
No resection	0.5%	1.1%
R0	94.2%	95.0%
R1	5.2%	3.9%
Postoperative N-Stage		
ypN-	50.8%	54.4%
ypN+	48.7%	44.4%
Pathological complete remission		
урТ0 урN0	16.8%	10.0%
Tumor regression grade (Becker <sup>1</sup> )		
Complete regression	18.3%	13.3%
Near complete regression (<10% vital tumor)	25.1%	39.4%

per local pathology assessment

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# **Take Home Points of ESOPEC Study**

- Perioperative FLOT improves OS compared to CROSS and should be considered a new standard of care
- Neoadjuvant CROSS + adjuvant nivolumab still option for patients who may not be candidates for perioperative FLOT
- Role of neoadjuvant chemo + neoadjuvant chemoRT followed by surgery is under active investigation
- Role of immunotherapy with chemo alone in the localized disease setting remains unclear
- ESOPEC study focused on adenocarcinoma only---chemoradiation still generally preferred for esophageal SCC

## **Pancreatic Cancer**



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



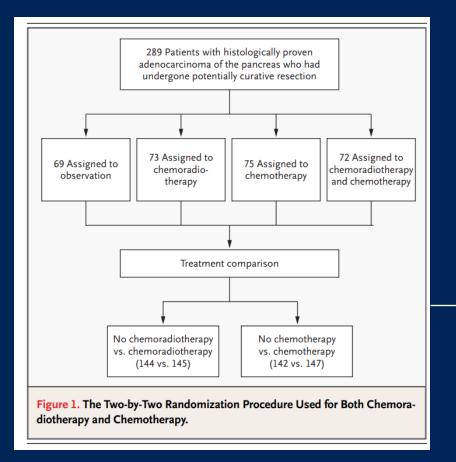
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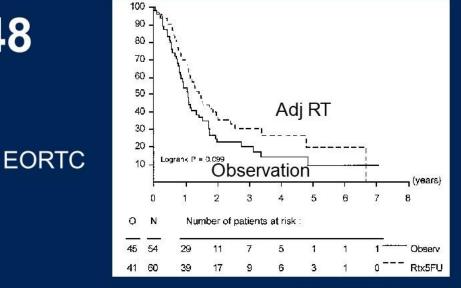


## NRG Oncology / RTOG 0848

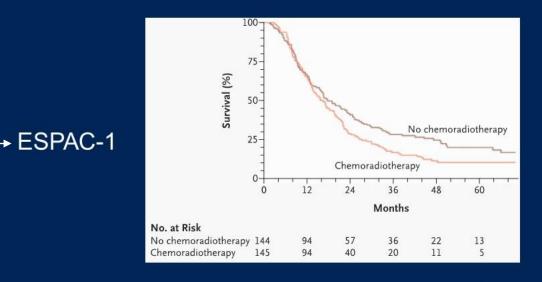
What do we know in adjuvant RT in resected PDAC

• Mixed results, some detrimental...





#### Klinkenbijl et al. Ann Surg 1999



#### Neoptolemos et al. N Engl J Med 2004



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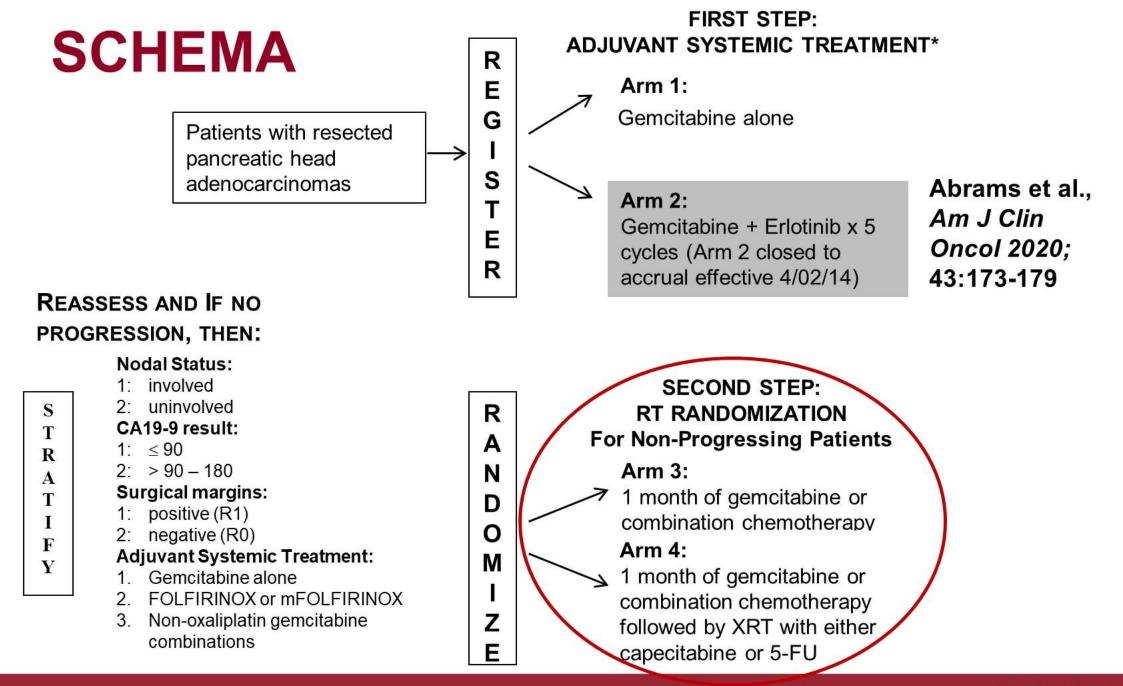
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# Background

- At the time of study design in 2008, the only effective adjuvant systemic therapy for pancreatic cancer was gemcitabine
- The role of adjuvant radiotherapy was controversial (ESPAC 1)
- Recognition of early systemic failures (within 4-6 mos) following up-front surgery
- Identification of important prognostic factors requiring stratification





\*Note: Up to 3 months may be initiated prior to registration.

#### NRG/RTOG 0848

# **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%)

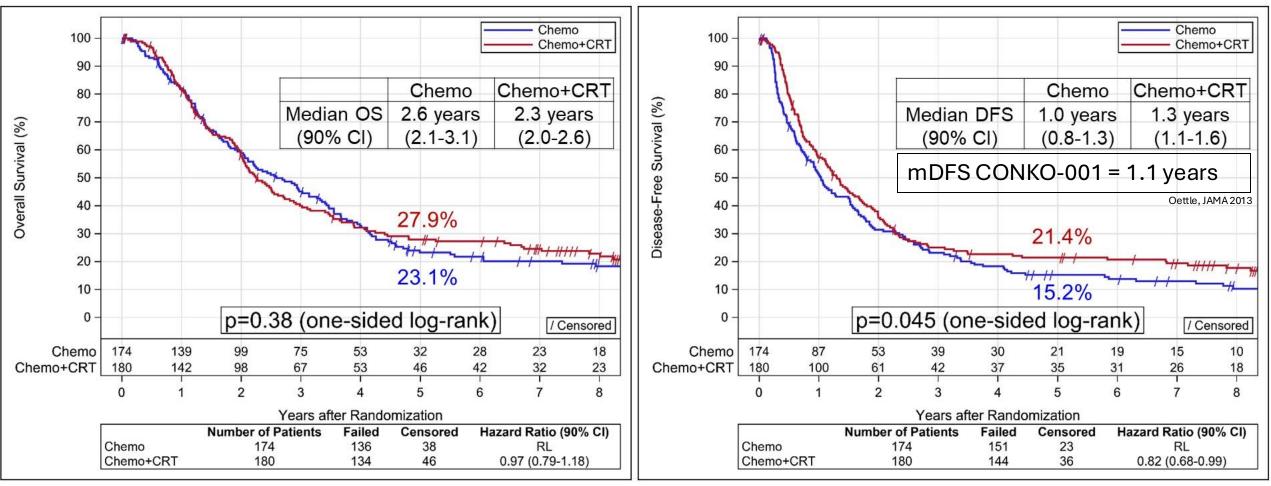


# **Results: Patient and Tumor Characteristics**

		Chemo (n=174)	Chemo+CRT (n=180)	Total (n=354)
Pathologic T stag	e T1/T2	29 (17%)	37 (21%)	66 (19%)
	T3	145 (83%)	143 (79%)	288 (81%)
Pathologic N stag 1-3 node	e N0 N1 s/> 3 nodes	42 (24%) 132 (76%) 95 (55%)/ 37 (21%)	49 (27%) 131 (73%) 79 (44%)/ 52 (29%)	91 (26%) 263 (74%) 174 (49%)/ 89 (25%)
Surgery	Classic PD	121 (70%)	139 (77%)	260 (73%)
	PPP/Other	53 (30%)	41 (23%)	94 (27%)
Surgical Margins	Negative	144 (83%)	151 (84%)	295 (83%)
	Positive	30 (17%)	29 (16%)	59 (17%)



# **Results: OS and DFS for All Patients**



#### **Overall Survival**

**Disease-Free Survival** 



# **Results: Forest Plot for OS Treatment Effect**

Subgroup	Events/Total	Hazard Ratio (2-sided 95% CI)		
All patients	270/354			
Pathologic N Stage				
NO	55/91			
N1	215/263			
CA19-9 Results				
≤ 90	257/340			
>90-180	13/14			
Surgical Margins				
Negative	218/295			
Positive	52/59			
Adjuvant Systemic Treatment				
Gemcitabine alone	180/236			
Non-oxaliplatin gemcitabine combinations	12/18			
Gemcitabine+Erlotinib	78/100			
	HR	0.1 0.25 0.5 1 1.5 2.5 5 10 Chemo+CRT BetterChemo Better		



# **Take Home Points of RTOG 0848**

- Addition of radiation + 5-FU/capecitabine to adjuvant systemic treatment did not improve OS for all patients
- However, there was improvement in DFS for all patients
- Improved OS and DFS for NODE NEGATIVE disease
- More questions about the role of adjuvant chemoradiation in resectable pancreatic cancer

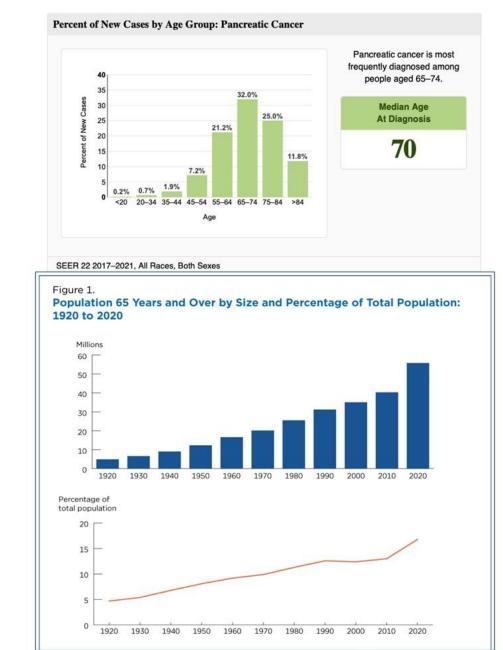
#### **Metastatic Pancreas Cancer**



**Fred Hutchinson** 

# Background (1)

- Older adults comprise most patients seen in clinical practice with mPDAC
- Care of older adults with cancer carries significant challenge beyond those faced by patients with mPDAC.
- Geriatric factors including comorbidities, function, cognition, psychosocial support, and nutrition directly effect outcomes of older adults with cancer



Mohile et al. Lancet 2021; Li et al. JAMA oncology





# Background (2)

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Data is limited to guide the care of older adults with mPDAC, with much younger patients enrolled on prior studies.

Phase III mPDAC Studies	Median Age of enrolled patients (years)
PRODIGE	61
MPACT	62-63
NAPOLI 3	62-64

Real world data analyses shows a significant percentage of older adults remain untreated, with lower survival in those that receive therapy.

	<70y	70-79y	≥80y	P value
Overall	7.9 m	6.8m	6.2m	<0.0001
Gem +Abraxane	6.9m	6.5m	6.8m	.25
Gemcitabine	3.0m	4.0m	4.4m	.72
FOLFIRINOX	9.8m	9.6m	6.6m	.064
5FU+Liposomal Irinotecan	7.0m	6.9m	6.8m	.75

Wainberg et al. Lancet 2023; Von Hoff et al. NEJM 2013; Conroy et al. NEJM 2011; Elias et al. The oncologist 2022







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

Efrat Dotan<sup>1</sup>, Paul J. Catalano<sup>2</sup>, Leon Lenchik<sup>3</sup>, Robert Boutin<sup>4</sup>, Xin Yao<sup>5</sup>, James P. Ohr<sup>6</sup>, Kian-Huat Lim<sup>7</sup>, Namrata Vijayvergia<sup>1</sup>, Sreenivasa R. Chandana<sup>8</sup>, Aparna Kalyan<sup>9</sup>, Richard F. Dunne<sup>10</sup>, David B. Zhen<sup>11</sup>, Daneng Li<sup>12</sup>, Melissa A. Simon<sup>9</sup>, Jordan Berlin<sup>13</sup>, Lynne I. Wagner<sup>3</sup>, Peter J. O'Dwyer<sup>14</sup>.

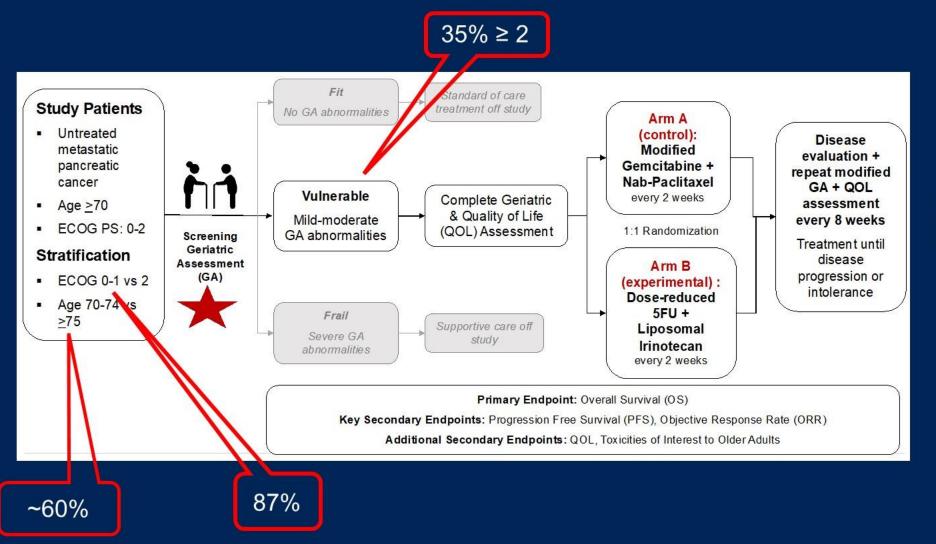
 <sup>1</sup>Fox Chase cancer Center, <sup>2</sup>Dana Farber Cancer Institute – ECOG ACRIN Biostatistics Center, <sup>3</sup>Wake Forest University Health Sciences, <sup>4</sup> Stanford University, <sup>5</sup>ThedaCare Regional Cancer Center, <sup>6</sup>UPMC Hillman Cancer Center, <sup>7</sup>Washington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



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## **GIANT (ECOG-ACRIN EA2186)**



Majority of participants PS 0-1, but with some vulnerability and older than 75 years old.



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# 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 <sup>1</sup>	ADL IADL (Female/Male)	6 8 /5	5 6-7/4	≤4 ≤5/≤3
Co- morbidities <sup>2</sup>	<b>CIRS-G</b> Cumulative Illness Rating Scale-Geriatric	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 <sup>3</sup>	Blessed Orientation Memory Concentration Test	0-4	5-10	≥11
Age <sup>2*</sup>			≥80	
Geriatric Syndromes <sup>4</sup>	<ul> <li>Falls (&gt;3 in 6m)</li> <li>Urinary/Fecal incontinence</li> </ul>	None	None	Presence of any of these would exclude patients
<sup>1</sup> Carra at al. ICO 2016 2Tuppi at al: Laukamia and Lymphoma 2015 <sup>3</sup> Mahila at al: ICO 2019 4CrantDay atudy. Batas at al. BMC 2019				

<sup>1</sup>Corre et al. JCO 2016 <sup>2</sup>Tucci et al; Leukemia and Lymphoma 2015. <sup>3</sup> Mohile et al; JCO 2018. <sup>4</sup>GrantPax study - Betge et al. BMC 2018





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## **Baseline characteristics**

	Gemcitabine+ Nab-Paclitaxel (N=88)	5FU+ Liposomal Irinotecan (N=88)	Total (N=176)	P-value
Age, Median (Range)	77 (70-90)	77 (70-89)	77 (70-90)	
Gender, n (%)				0.228
Female	48 (54.5%)	39 (44.3%)	87 (49.4%)	
Male	40 (45.5%)	49 (55.7%)	89 (50.6%)	
<b>Race/Eth</b> , n (%)				0.033
White	77 (88.5%)	64 (74.4%)	141 (81.5%)	
Black/AA	7 (8.0%)	11 (12.8%)	18 (10.4%)	
Hisp/Lat	1 (1.1%)	7 (8.1%)	8 (4.6%)	
Asian	1 (1.1%)	4 (4.7%)	5 (2.9%)	
Mult	1 (1.1%)	0 (0.0%)	1 (0.6%)	
Missing	1	2	3	
Age Stratification, n (%)				1.000
Age 70-74	33 (37.5%)	34 (38.6%)	67 (38.1%)	
Age 75+	55 (62.5%)	54 (61.4%)	109 (61.9%)	





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# **Baseline characteristics – Geriatric screening**

	Gemcitabine+ Nab-Paclitaxel (N=88)	5FU+ Liposomal Irinotecan (N=88)	Total (N=176)	P-value
Performance Status, n (%)				0.974
0	20 (22.7%)	22 (25.0%)	42 (23.9%)	
1	57 (64.8%)	55 (62.5%)	112 (63.6%)	
2	11 (12.5%)	11 (12.5%)	22 (12.5%)	
Screening vulnerability, n (%)				
Age	32 (36.4%)	33 (36.4%)	64 (36.4%)	
Co-Morbidity	25 (28.4%)	32 (36.4%)	57 (32.4%)	
Cognition	36 (41.4%)	43 (49.4%)	79 (45.4%)	
Function (ADL)	5 (5.7%)	7 (8.0%)	12 (6.9%)	
Function (IADL)	18 (20.7%)	16 (18.4%)	34 (19.5%)	
# of Vulnerability Domains, n(%)				
1	53 (60.9%)	43 (49.4%)	96 (55.2%)	0.532
2	20 (23.0%)	25 (28.7%)	45 (25.9%)	
≥3	6 (6.9%)	10 (11.5%)	16 (9.2%)	

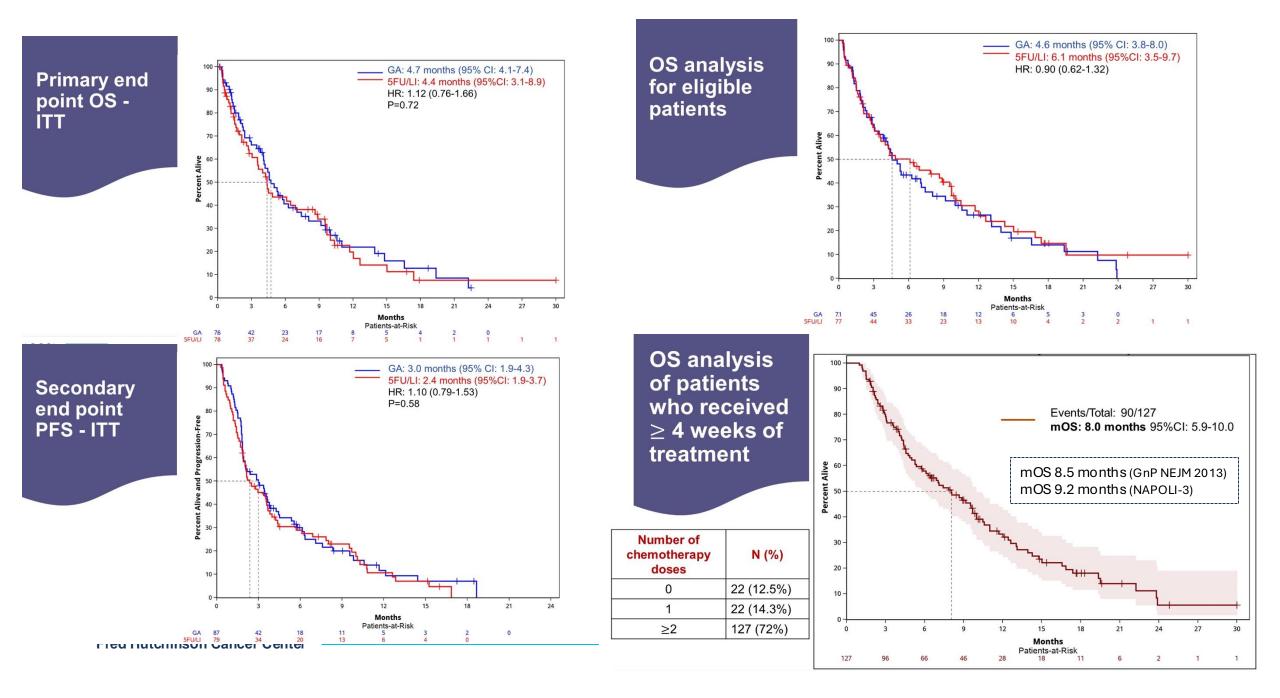




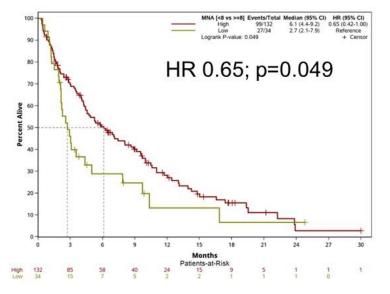
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#### Nutrition

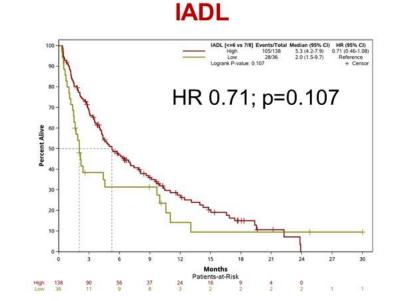


FACT-G

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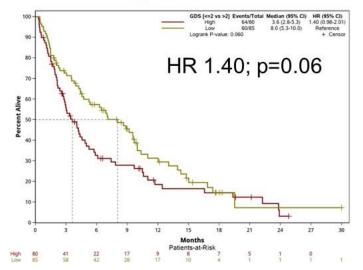
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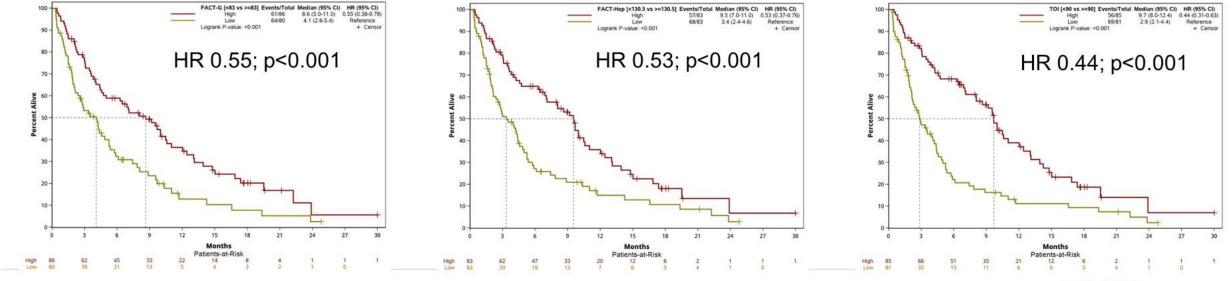


FACT- Hep 4

#### Depression



#### **Physical/Functional well being**





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PRESENTED BY: Efrat Dotan, MD

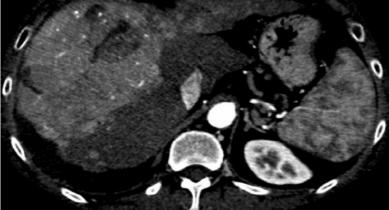
# **Take Home Points of EA2186/GIANT Study**

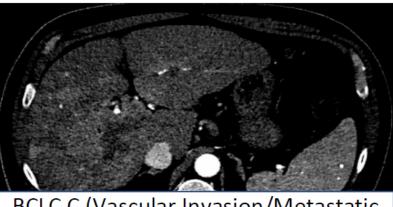
- No difference in OS between modified gemcitabine + nabpaclitaxel vs 5-FU/LV + nanoliposomal irinotecan
- OS is poor for most elderly and frail patient with metastatic pancreatic cancer
- Chemo only improves OS in those who can make it through at least 1 month of chemo
- Need better geriatric tools in clinic to help stratify patients who are most likely to benefit from chemotherapy

# **Hepatobiliary Cancer**

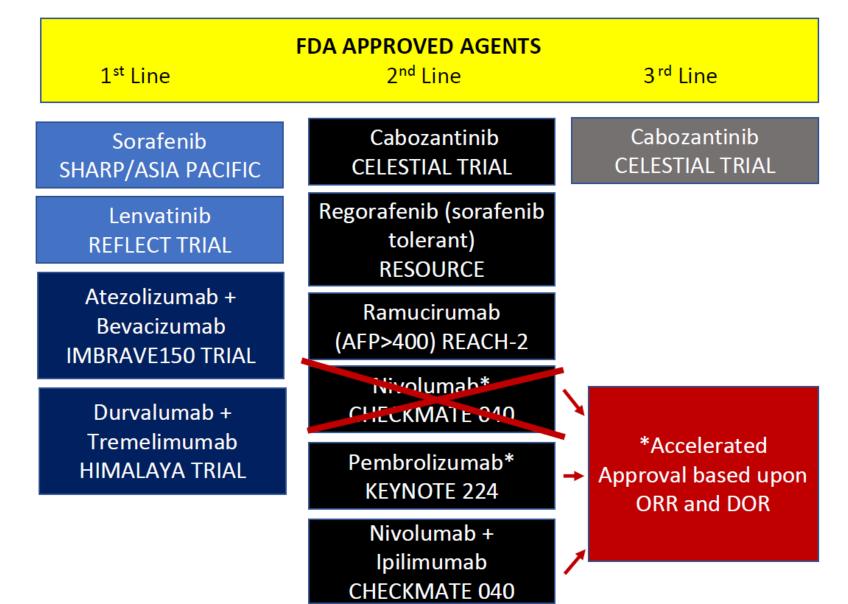
### Background: Systemic Therapy for Advanced Hepatocellular Carcinoma

BCLC B (ineligible/refractory to catheter-based therapy





BCLC C (Vascular Invasion/Metastatic Disease)





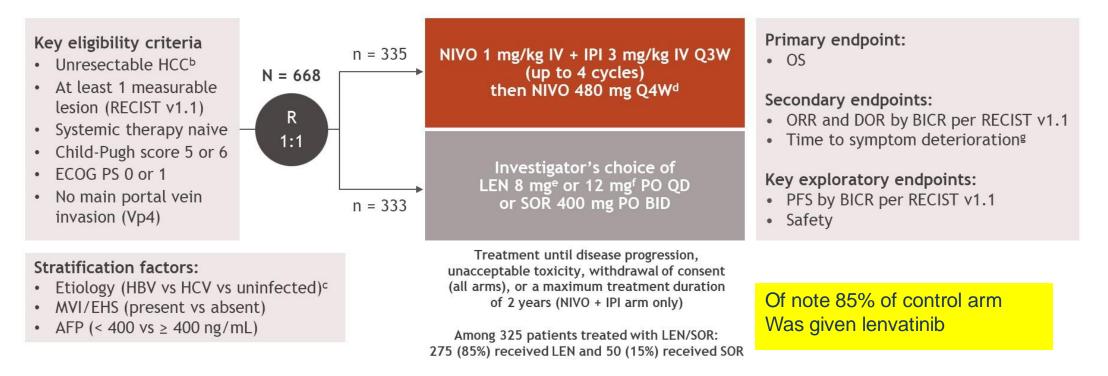
### Nivolumab plus ipilimumab vs lenvatinib or sorafenib as first-line treatment for unresectable hepatocellular carcinoma: first results from CheckMate 9DW

Peter R. Galle,<sup>1</sup> Thomas Decaens,<sup>2</sup> Masatoshi Kudo,<sup>3</sup> Shukui Qin,<sup>4</sup> Leonardo Da Fonseca,<sup>5</sup> Bruno Sangro,<sup>6</sup> Hatim Karachiwala,<sup>7</sup> Joong-Won Park,<sup>8</sup> Edward Gane,<sup>9</sup> Matthias Pinter,<sup>10</sup> David Tai,<sup>11</sup> Armando Santoro,<sup>12</sup> Gonzalo Pizarro,<sup>13</sup> Chang-Fang Chiu,<sup>14</sup> Michael Schenker,<sup>15</sup> Aiwu He,<sup>16</sup> Qi Wang,<sup>17</sup> Caitlyn Stromko,<sup>17</sup> Joseph Hreiki,<sup>17</sup> Thomas Yau<sup>18</sup>

<sup>1</sup>University Medical Center, Mainz, Germany; <sup>2</sup>Univ. Grenoble Alpes, CHU Grenoble Alpes, Institute for Advanced Biosciences, CNRS UMR 5309-INSERM U1209, Grenoble, France; <sup>3</sup>Kindai University Hospital, Osaka, Japan; <sup>4</sup>Nanjing Tianyinshan Hospital of China Pharmaceutical University, Nanjing, China; <sup>5</sup>Instituto do Cancer do Estado de São Paulo, ICESP, São Paulo, Brazil; <sup>6</sup>Clinica Universidad de Navarra and CIBEREHD, Pamplona, Spain; <sup>7</sup>Cross Cancer Institute, Edmonton, Canada; <sup>8</sup>National Cancer Center, Goyang, Republic of Korea; <sup>9</sup>Auckland City Hospital, Auckland, New Zealand; <sup>10</sup>Medical University of Vienna, Vienna, Austria; <sup>11</sup>National Cancer Centre, Singapore, Republic of Singapore; <sup>12</sup>Department of Biomedical Sciences, Humanitas University, Pieve Emanuele, and IRCCS Humanitas Research Hospital, Rozzano, Milan, Italy; <sup>13</sup>Bradford Hill Centro de Investigacion Clinica, Recoleta, Chile; <sup>14</sup>China Medical University Hospital, Taichung, Taiwan; <sup>15</sup>Centrul de Oncologie Sf. Nectarie, Craiova, Romania; <sup>16</sup>MedStar Georgetown University Hospital, Washington, DC; <sup>17</sup>Bristol Myers Squibb, Princeton, NJ; <sup>18</sup>Queen Mary Hospital, Pok Fu Lam, Hong Kong

#### CheckMate 9DW study design

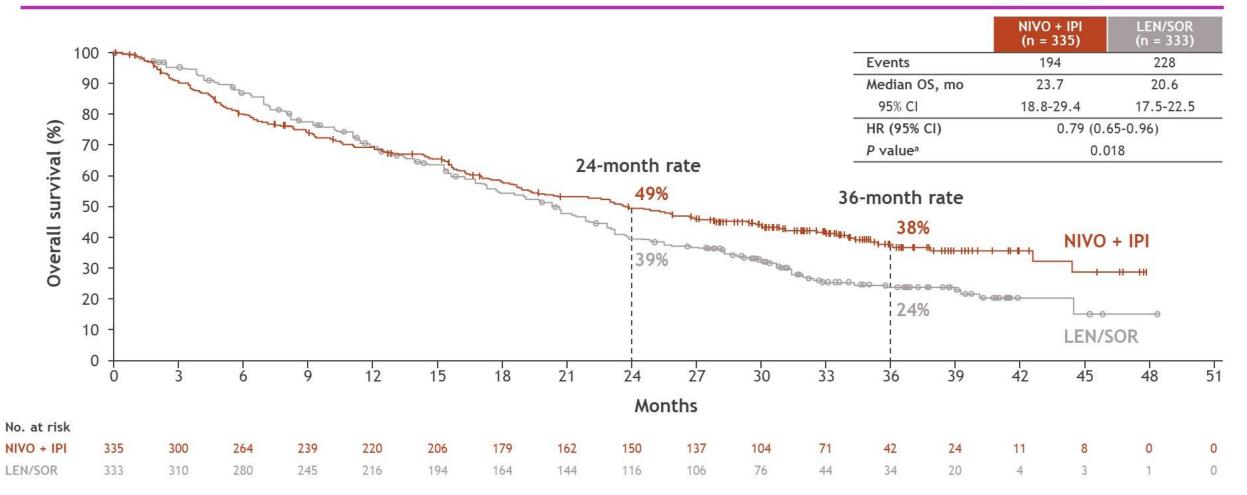
 CheckMate 9DW is a global, phase 3, randomized, open-label study of NIVO in combination with IPI compared with LEN or SOR as 1L treatment in patients with unresectable HCC<sup>a</sup>



• At data cutoff (January 31, 2024), median (range) follow-up<sup>h</sup> was 35.2 (26.8-48.9) months

<sup>a</sup>ClinicalTrials.gov: NCT04039607. <sup>b</sup>Disease not eligible for, or progressive disease after, curative surgical and/or locoregional therapies. <sup>c</sup>Based on central lab serology results for stratification purpose. <sup>d</sup>Minimum of 1 dose of NIVO + IPI is required before proceeding to NIVO monotherapy. <sup>e</sup>If body weight < 60 kg. <sup>g</sup>If body weight ≥ 60 kg. <sup>g</sup>HCS subscale score of the FACT-Hep. <sup>h</sup>Time between randomization date and cutoff date.

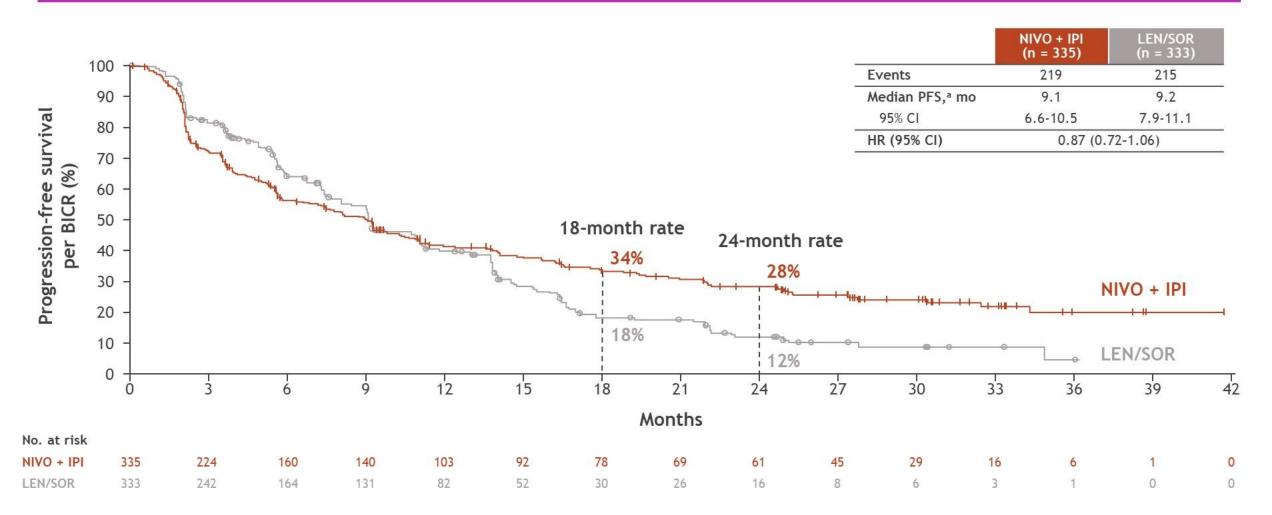
#### **Overall survival**



- Statistically significant and clinically meaningful OS benefit with NIVO + IPI vs LEN/SOR
  - Longer median OS and long-term survival benefit with higher OS rates at 24 and 36 months

Median (range) follow-up, 35.2 (26.8-48.9) months. Median OS is estimated using Kaplan-Meier methodology. HR and 95% CI from stratified Cox proportional hazard model. HR is NIVO + IPI over LEN/SOR. Symbols represent censored observations. <sup>a</sup>Two-sided P value from stratified log-rank test. Boundary for statistical significance: P value  $\leq$  0.0257.

#### **Progression-free survival**



• Numerically higher PFS rates with NIVO + IPI vs LEN/SOR at 18 and 24 months

Median (range) follow-up, 35.2 (26.8-48.9) months. Median PFS is estimated using Kaplan-Meier methodology. HR and 95% CI from stratified Cox proportional hazard model. HR is NIVO + IPI over LEN/SOR. Symbols represent censored observations. <sup>a</sup>Assessed by BICR based on RECIST v1.1.

LEN/SOR

 $(n = 44)^{d}$ 

22 12.9

10.2-31.2

LEN/SOR

36

0

39

0

0

NIVO + IPI

 $(n = 121)^d$ 

48

30.4 21.2-NE

\*\*\*--+**\$**`\\\_+##+**}**+#+

24

39

3

27

22

2

30

2

33

0

Duration of response

#### **Response and duration of response**

					Dui	acio		103	pons		
	NIVO + IPI (n = 335)	LEN/SOR (n = 333)	100 - 		<b>L</b>		-		n DOR	l,ª mo	0
ORR,ª %	36	13	80 -		Se 1	have been	_	95%			
95% CI	31-42	10-17	95 June - 20 -		La	۳. ۱۰	**	~+~+	the second		
P value <sup>b</sup>	< 0.	0001	- 07 - 06 - 06 - 07 - 07 - 07				۳		~~+·	". <u>+~</u> _	+4
Best overall response,ª%			41/1							<del>г</del>	
Complete response	7	2	- 02 Duration							Q	-0
Partial response	29	11	20 -								
Stable disease <sup>c</sup>	32	62	10								
Progressive disease	20	14	0+	3	6	9	12	15	18	21	
Not evaluable	12	11							Mon	ths	
Median TTR (range),ª mo	2.2 (1.1-11.6)	3.7 (0.6-11.2)	No. at risk								
	2.2 (111 11.0)		NIVO + IPI 12	116	97	81	74	67	59	52	
			LEN/SOR 44	42	31	23	16	13	9	4	

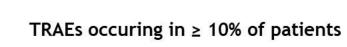
 Statistically significant and clinically meaningful improvement in ORR with NIVO + IPI vs LEN/SOR, with a higher complete response rate (7% vs 2%, respectively) and durable responses

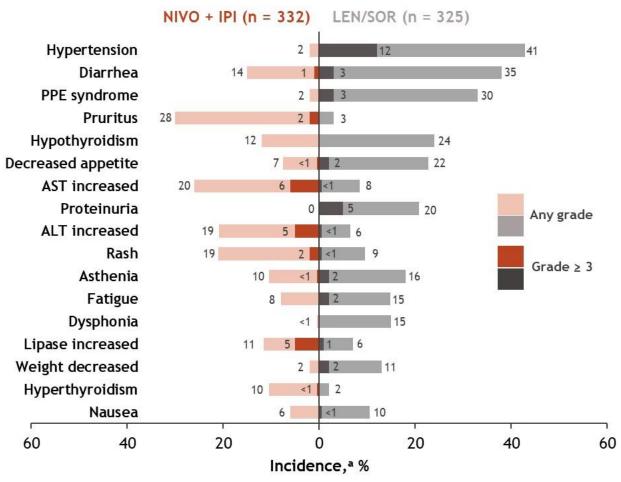
Median (range) follow-up, 35.2 (26.8-48.9) months. Symbols represent censored observations. \*Assessed by BICR based on RECIST v1.1. bTwo sided P value from stratified Cochran-Mantel-Haenszel test. Boundary for statistical significance: P value ≤ 0.025. cIncludes non-CR/non-PD: NIVO + IPI, n = 6 (2%); LEN/SOR, n = 7 (2%). Non-CR/non-PD refers to patients with persistence of one or more non-target lesion(s). dNumber of confirmed responders.

#### **Treatment-related adverse events**

All treated patients, n (%)	NIVO + IPI (n = 332)	LEN/SOR (n = 325)
Median (range) duration of treatment, mo	4.7 (< 1 to 24.4)	6.9 (< 1 to 45.8)

		+ IPI 332)	LEN/SOR (n = 325)		
All treated patients, n (%)	Any grade	Grade 3/4	Any grade	Grade 3/4	
TRAEsª					
Any TRAEs	278 (84)	137 (41)	297 (91)	138 (42)	
Serious TRAEs	94 (28)	83 (25)	47 (14)	42 (13)	
TRAEs leading to discontinuation	59 (18)	44 (13)	34 (10)	21 (6)	
Treatment-related deaths <sup>b</sup>	12 (4) <sup>c</sup>		3 (< 1) <sup>d</sup>		





30% required steroid rescue

alncludes events reported between first dose and 30 days after last dose of study therapy. <sup>b</sup>Treatment-related deaths were reported regardless of time frame. <sup>c</sup>TRAEs leading to death in the NIVO + IPI arm included immune-mediated hepatitis (n = 4), hepatic failure (n = 3), hepatic insufficiency (n = 1), decompensated cirrhosis (n = 1), diarrhea-colitis (n = 1), autoimmune hemolytic anemia (n = 1), and dysautonomia (n = 1). <sup>d</sup>TRAEs leading to death in the LEN/SOR arm included hepatorenal syndrome (n = 1), ischemic stroke (n = 1), and acute kidney injury (n = 1).

#### **Cross Trial Comparisons: Current 1L HCC Combination Options**

	Atezo/Bev	STRIDE	Nivo/Ipi	
OS	HR 0.58	HR 0.78	HR 0.79*	
PFS	HR 0.59	HR 0.9	HR 0.87*	
ORR	30% (5.5% CR)	20% (3.1% CR)	36% (7% CR)	

\* 85% lenvatinib

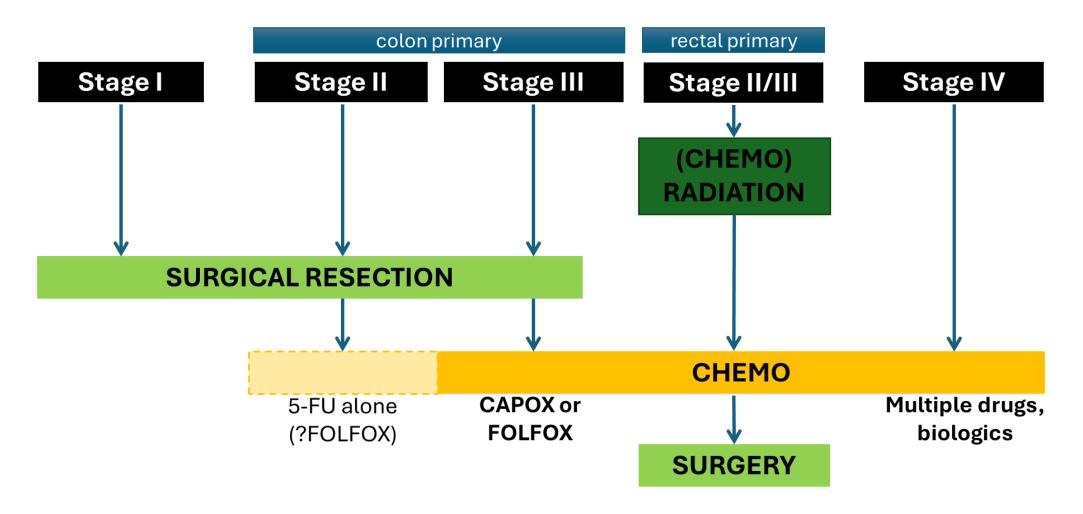
Median OS TKI	13.2 months	13.8 months	20.6 months
Median OS Doublet	NE (updated 19 months)	16.4 months	23.7 months

## **Take Home Points of CheckMate 9DW**

- Nivolumab + Ipilimumab will likely be approved as another 1L option for advanced HCC
- Appealing efficacy but at the expense of increased toxicity
- Might consider in patients who cannot receive atezolizumab/bevacizumab (e.g. esophageal varices) who have bulky disease and need for palliation
- Also could be an interesting option in the neoadjuvant setting
- Multiple options exist in the 1L setting for advanced HCC and multiple factors to consider when choosing therapy for patients

### **Colorectal Cancer (CRC)**

#### **CRC Treatment Paradigm**



#### **Paradigms vary for MSI and MSS CRC**

NCCN NCCN NCCN Network<sup>®</sup>

NCCN Guidelines Version 3.2024 Colon Cancer

NCCN Colon Cancer Panel Members Summary of the Guidelines Updates

Clinical Presentations and Primary Treatment:

Pedunculated or Sessile Polyp (Adenoma) with Invasive Cancer (COL-1)

• workup for Colon Cancer Appropriate for Resection (Non-metastatic)/Suspected or Proven metastatic

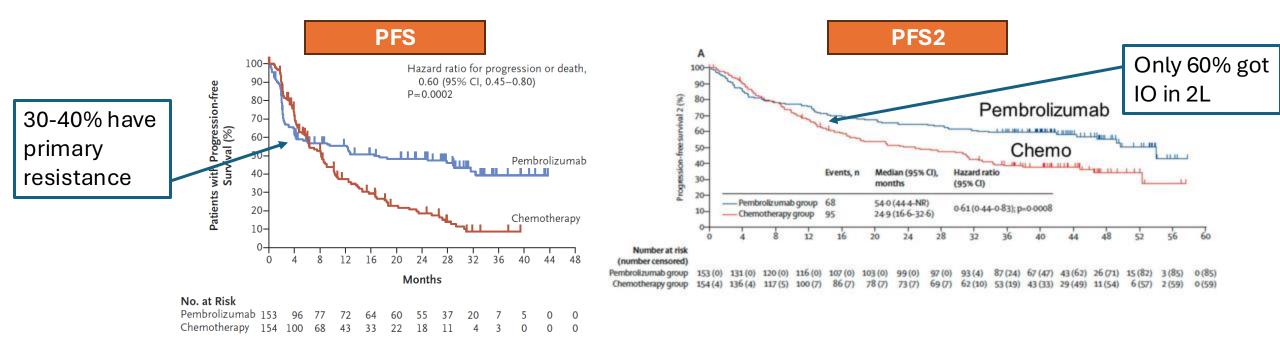
Adenocarcinoma (COL-2)

- pMMR/MSS: Findings and Primary Treatment for Colon Cancer Appropriate for Resection (Non-metastatic) (COL-3)
- pMMR/MSS: Pathologic Stage, Adjuvant Treatment (COL-4)
- pMMR/MSS: Findings and Treatment for Suspected or Proven Metastatic Synchronous Adenocarcinoma (COL-5)
- <u>Surveillance (COL-8)</u>
- <u>Recurrence and Workup (COL-9)</u>
- dMMR/MSI-H: Deficient MMR (dMMR)/MSI-High (MSI-H) Colon Cancer (Non-metastatic) (COL-12)
- <u>dMMR/MSI-H: Pathologic Stage, Adjuvant Treatment (COL-13)</u>
- <u>dMMR/MSI-H or POLE/POLD1 mutation: Findings and Treatment for Suspected or Proven Metastatic Synchronous</u>
   <u>Adenocarcinoma (COL-14)</u>
- dMMR/MSI-H or POLE/POLD1 mutation: Metachronous Metastases (COL-15)

- Test all CRC!
- MSI/dMMR can...
  - Screen for Lynch syndrome
  - Prognostic
  - Predictive

#### **Immunotherapy in 1L Metastatic CRC**

- Keynote-177: MSI CRC randomized to pembrolizumab vs. chemotherapy (any doublet ± biologic allowed)
  - Better PFS, OS, QOL for pembro



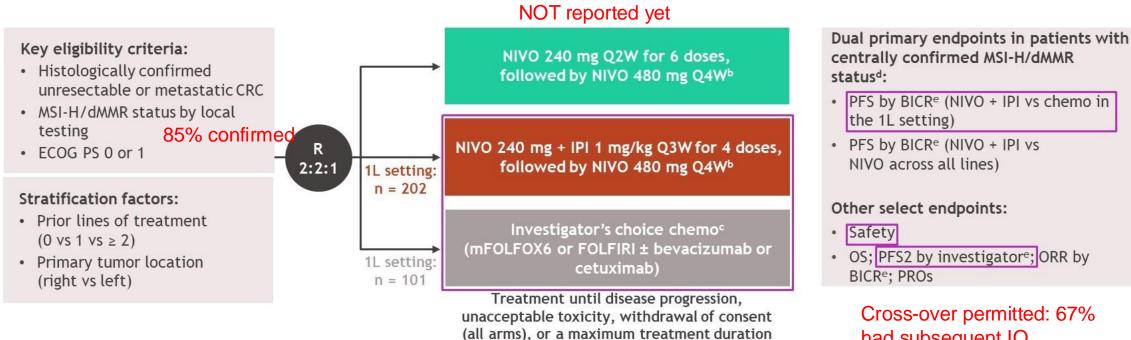


#### Nivolumab plus ipilimumab vs chemotherapy as first-line treatment for microsatellite instability-high/mismatch repair-deficient metastatic colorectal cancer: expanded efficacy analysis from CheckMate 8HW

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#### **CheckMate 8HW Schema**

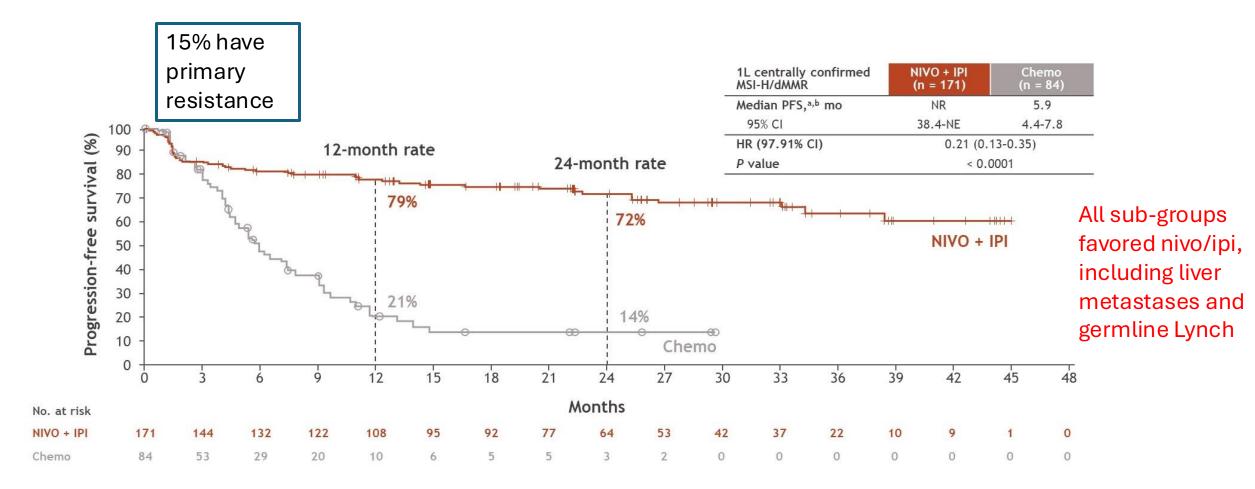


Cross-over permitted: 67% had subsequent IO

• At data cutoff (October 12, 2023), the median follow-up<sup>f</sup> was 31.5 months (range, 6.1-48.4)

of 2 years (NIVO and NIVO + IPI arms only)

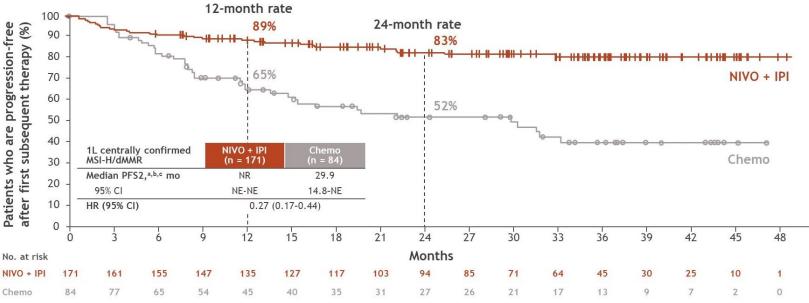
#### **Progression Free Survival**



#### **PFS2 (After Change in Therapy)**

Subsequent therapy (1L centrally confirmed MSI-H/dMMR), a	NIVO + IPI (n = 171)	Chemo (n = 84)
Any subsequent therapy	26 (15)	58 (69)
Radiotherapy	1 (< 1)	1 (1)
Surgery	5 (3)	4 (5)
Systemic therapy	20 (12)	57 (68)
Immunotherapy	7 (4)	56 (67)
On-study crossover to NIVO + IPI	0	39 (46)
Non-study immunotherapy	7 (4)	17 (20)
EGFR inhibitors	5 (3)	1 (1)
Platinum compounds	8 (5)	
VEGFR targeted therapy	5 (3)	100
MEK, NRAS, and BRAF inhibitors	2 (1) <b>e</b>	
Other systemic anticancer therapy	12 (7) L	80 - 7.00
	progression-free (L) 2 (%)	70 -
	gre it th	60 -
<ul> <li>Excellent</li> </ul>	progression-f	, 50 -

#### • 67% of chemo arm got subsequent IO (46% on study)



#### Fred Hutchinson Cancer Center

observed

responses to IO

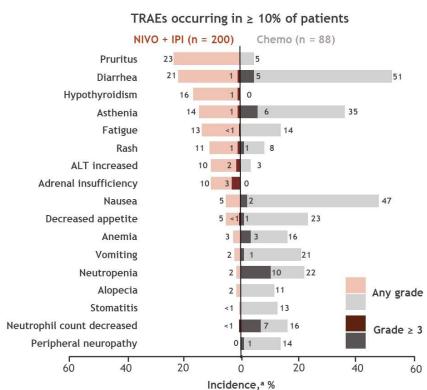
49

51

0

0

#### **Not Without Toxicity**



	NIVO (n =		Chemo (n = 88)		
1L all treated patients	Any grade	Grade 3/4	Any grade	Grade 3/4	
TRAEs,ª n (%)					
Any TRAEs	160 (80)	46 (23)	83 (94)	42 (48)	
Serious TRAEs	38 (19)	32 (16)	17 (19)	14 (16)	
TRAEs leading to discontinuation	33 (17)	23 (12)	28 (32)	9 (10)	
Treatment-related deaths, n (%)	2 (1) <sup>b</sup>		0 (0)°		

• Any-grade and grade 3/4 TRAEs were less frequent in the NIVO + IPI arm than in chemo arm

 The most common any-grade TRAEs occurring in ≥ 10% of patients were:

NIVO + IPI: pruritis (23%), diarrhea (21%), and hypothyroidism (16%)
Chemo: diarrhea (51%), nausea (47%), and asthenia (35%)

12

alncludes events reported between first dose and 30 days after last dose of study therapy. blncludes 1 event each of myocarditis and pneumonitis. One death (acute myocarditis) was related to crossover treatment.

- Most tolerated nivolumab
   + ipilimumab well
- BUT, 3 deaths from (2 in 1L, 1 in cross-over)
  - 2 were myocarditis (no predictive risk factors)

### **Take Home Points of CheckMate 8HW**

- Initial results demonstrate superior PFS and PFS2 (permitting cross-over) from combination nivolumab/ipilimumab compared to chemotherapy
- Results from the single-agent nivolumab arm are yet to be reported (so the need for ipilimumab remains unclear)
- For stage 4 MSI-H CRC, nivolumab/ipilimumab is a more powerful first-line combination compared to chemotherapy (but unknown compared to pembro)

#### Summary

- Gastroesophageal Cancer
  - ESOPEC: Perioperative FLOT versus neoadjuvant chemoradiotherapy (CROSS) for resectable esophageal adenocarcinoma → Evolving paradigm of perioperative chemotherapy for esophageal adenocarcinoma
- Pancreatic Cancer
  - <u>RTOG 0848:</u> Adjuvant chemotherapy +/- chemoradiation for patients with resected head of pancreatic adenocarcinoma—results of the RT + 5-FU/capecitabine randomization step → Only node negative patients benefit from adjuvant RT but question of the relevance of this study with outdated chemo regimens
  - ECOG-ACRIN EA2186/GIANT Study: Randomized phase 2 study of gemcitabine and nab-paclitaxel compared with 5-FU/LV + nanoliposomal irinotecan in older patients with treatment-naïve metastatic pancreatic cancer → Need better tools to select elderly and frail patients who would benefit from palliative chemo chemo
- Hepatobiliary Cancer
  - <u>CheckMate 9DW</u>: Nivolumab + ipilimumab vs lenvatinib or sorafenib as first-line treatment for unresectable hepatocellular carcinoma → Another efficacious 1L therapy for patients with HCC
- Colorectal Cancer
  - <u>CheckMate 8HW:</u> Nivolumab + ipilimumab vs chemotherapy as first-line treatment of MSI-H/dMMR metastatic colorectal cancer: expanded efficacy analysis → Another efficacious 1L therapy for patients with MSI-H CRC



# Thank you

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