

Is Perioperative Immunotherapy the New Standard of Care?

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What is the Gold Standard for Clinical
Trial Outcomes?

--Overall Survival--

What is the Main Goal Desired by
Patients With NSCLC?

--The treatment that helps them live longest--



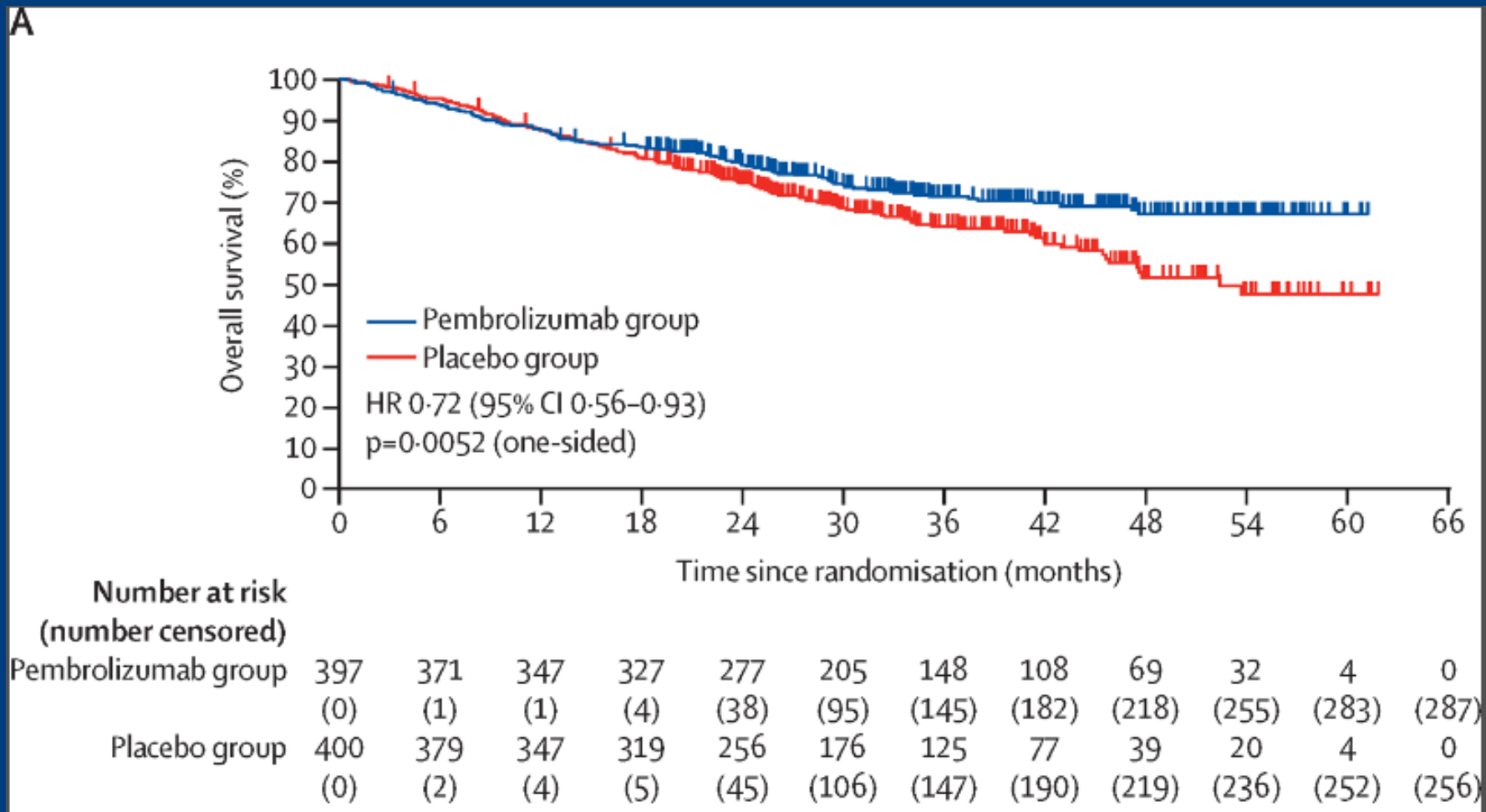
Randomized Phase III Trials, Resectable NSCLC



	Perioperative Treatment?	EFS HR	OS HR
CM 816	No	0.63	?
KN-671	Y	0.59	0.72
CM 77T	Y	0.58	?
AEGEAN	Y	0.68	?
RATIONALE-315	Y	0.56	0.62 (Interim Analysis)



KEYNOTE-671 Overall Survival





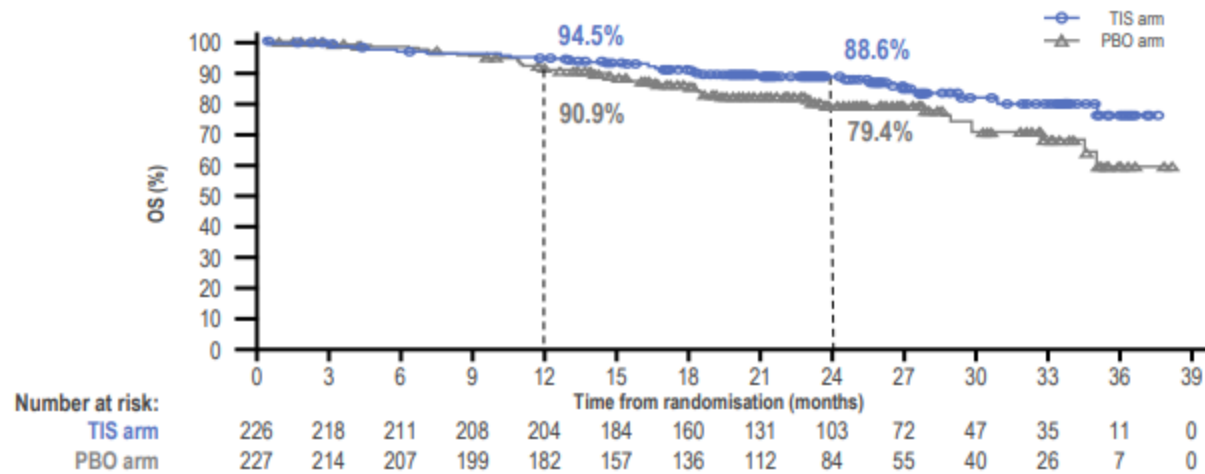
RATIONALE-315 Overall Survival

Overall Survival

BARCELONA 2024 ESMO congress

ITT Analysis Set

	Events (%)	Median (95% CI), months	HR (95% CI)	P-value
TIS arm	31 (13.7)	NR (NE, NE)	0.62 (0.39, 0.98)	0.0193
PBO arm	45 (19.8)	NR (35.0, NE)		



An OS benefit trend (HR=0.62 [95% CI: 0.39, 0.98]; one-sided P=0.0193) was observed favouring perioperative TIS

OS was defined as the time from the date of randomisation to the date of death due to any cause.
Abbreviations: CI, confidence interval; HR, hazard ratio; ITT, intention-to-treat; NE, not evaluable; NR, not reached; OS, overall survival; PBO, placebo; TIS, tislelizumab.



Questions From the Data

- Are the results definitely due to perioperative treatment?
 - Unknown
- Are the results specific to the immunotherapy (or chemotherapy) agent?
 - (Probably not)
- Are there specific subgroups that benefit more/less?
 - Most likely



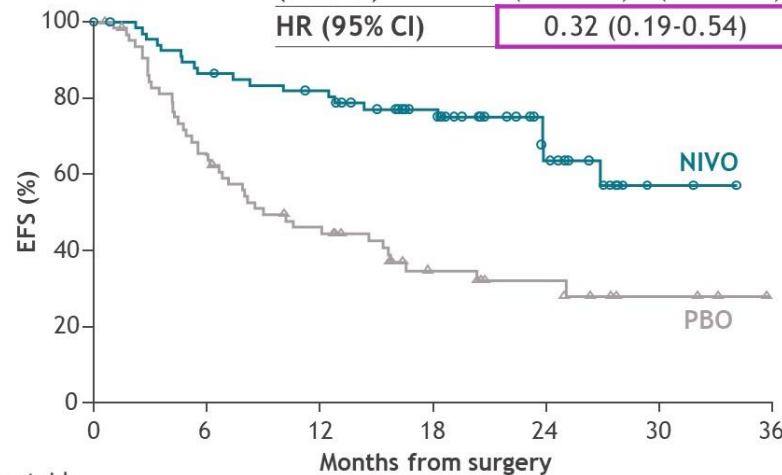
CM 77T, Evaluation of N2 Disease

CheckMate 77T: clinical outcomes with perioperative NIVO by nodal status

Landmark EFS from definitive surgery

Stage III N2

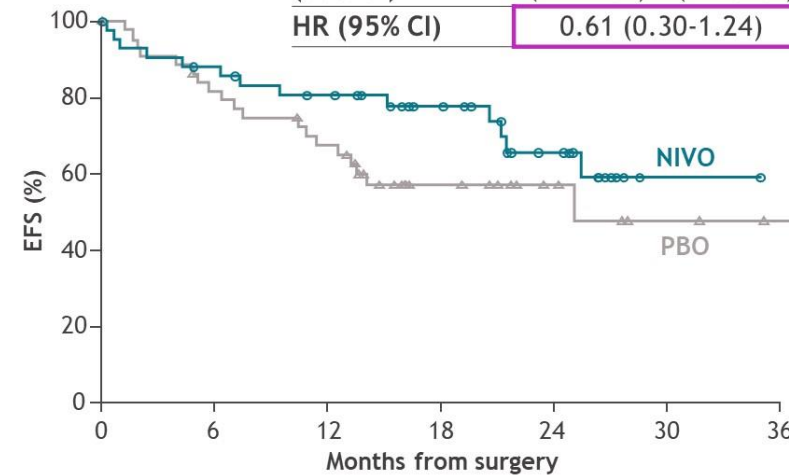
	NIVO (n = 70)	PBO (n = 66)
Median EFS, mo (95% CI)	NR (23.8-NR)	8.9 (6.1-15.6)
HR (95% CI)	0.32 (0.19-0.54)	



No. at risk	0	6	12	18	24	30	36
NIVO	70	58	52	37	16	3	0
PBO	66	41	27	14	8	3	0

Stage III non-N2

	NIVO (n = 45)	PBO (n = 45)
Median EFS, mo (95% CI)	NR (21.4-NR)	25.0 (12.5-NR)
HR (95% CI)	0.61 (0.30-1.24)	



No. at risk	0	6	12	18	24	30	36
NIVO	45	36	31	23	13	1	0
PBO	45	35	28	13	7	3	1

Median follow-up (range): 25.4 months (15.7-44.2).



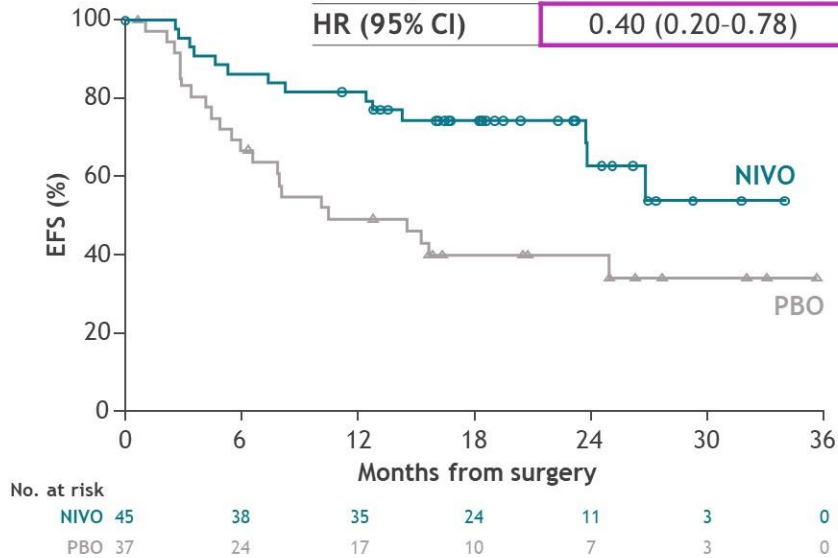
CM 77T, Evaluation BY N2 Disease

CheckMate 77T: clinical outcomes with perioperative NIVO by nodal status

Landmark EFS from definitive surgery

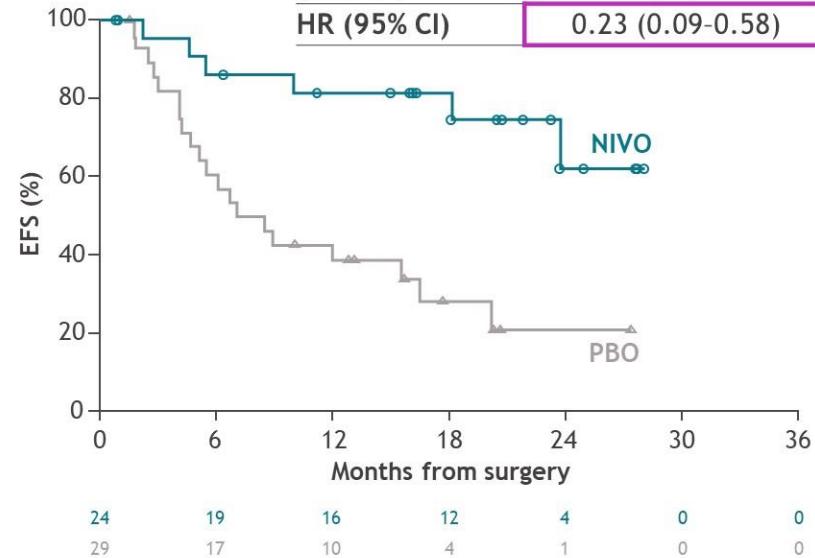
Stage III N2 single-station^a

	NIVO (n = 45)	PBO (n = 37)
Median EFS, mo (95% CI)	NR (23.7-NR)	10.5 (6.0-NR)
HR (95% CI)	0.40 (0.20-0.78)	



Stage III N2 multi-station^a

	NIVO (n = 24)	PBO (n = 29)
Median EFS, mo (95% CI)	NR (18.2-NR)	7.8 (4.7-16.5)
HR (95% CI)	0.23 (0.09-0.58)	



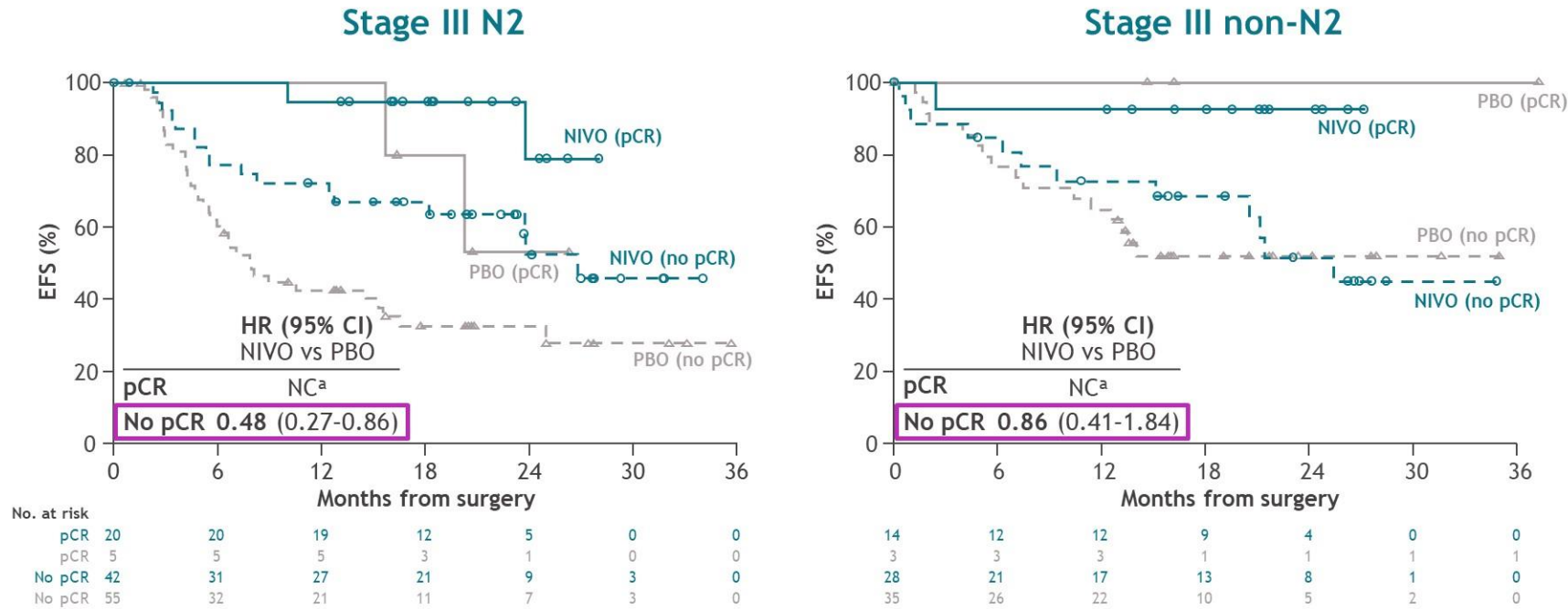
Median follow-up (range): 25.4 months (15.7-44.2). ^aN2 subcategory was not reported in 1 patient in the NIVO arm.



CM 77T, Evaluation by pCR

CheckMate 77T: clinical outcomes with perioperative NIVO by nodal status

Landmark EFS **from definitive surgery** by pCR status



Landmark EFS HRs for no pCR^a: 0.59^b (single-station N2) and 0.36^c (multi-station N2)^d

Median follow-up (range): 25.4 months (15.7-44.2). ^aHRs were NC for patients with pCR as there were < 10 patients in either treatment arm. ^b<95% CI: 0.29-1.20; ^c0.12-1.09. ^dN2 subcategory was not reported in 1 patient in the NIVO arm.

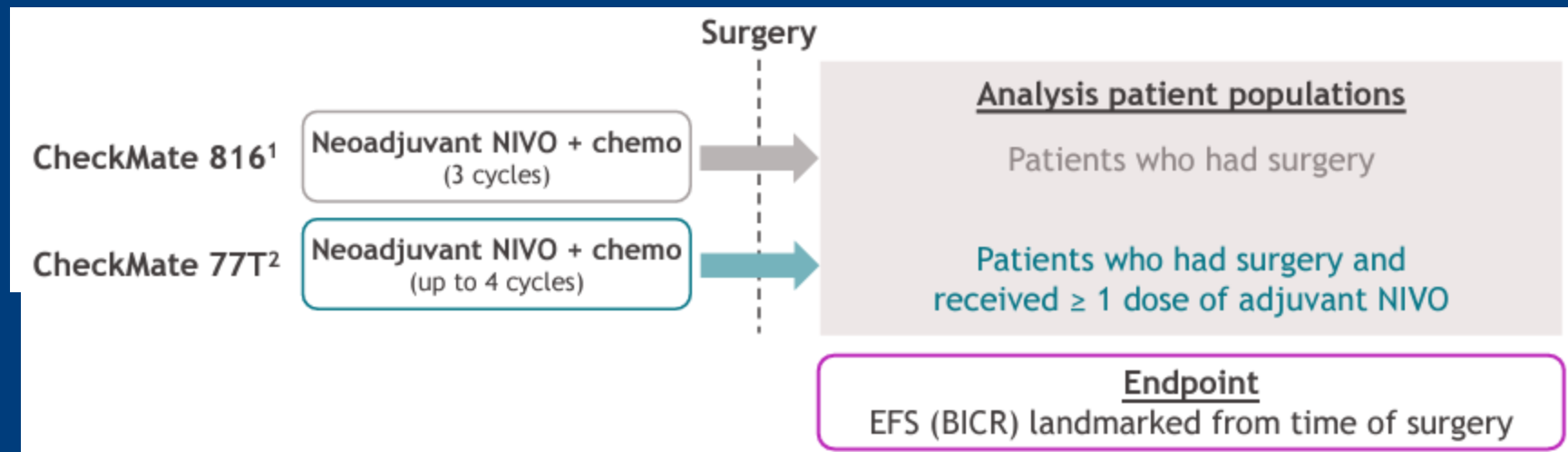


Questions From the Data

- Do the results prove benefit of perioperative treatment?
 - No, but intriguing evidence
- Does this give information to select who gets adjuvant immunotherapy?
 - Not yet

Perioperative vs neoadjuvant nivolumab for resectable NSCLC: patient-level data analysis of CheckMate 77T vs CheckMate 816

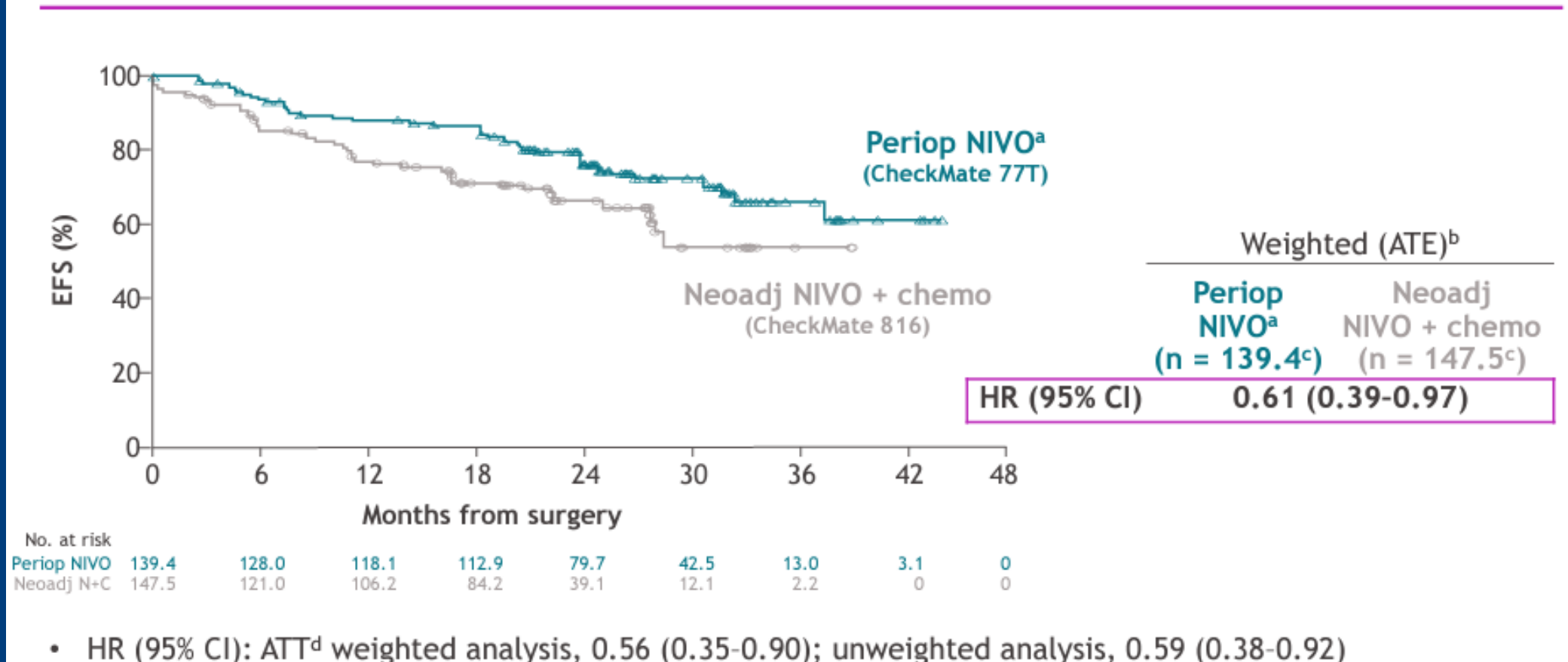
Patrick M. Forde,¹ Solange Peters,² Jessica Donington,³ Stephanie Meadows-Shropshire,⁴ Phuong Tran,⁴ Stefano Lucherini,⁵ Cinthya Coronado Erdmann,⁶ Hong Sun,⁶ Tina Cascone⁷





CM 816 v CM 77T: Meta-Analysis

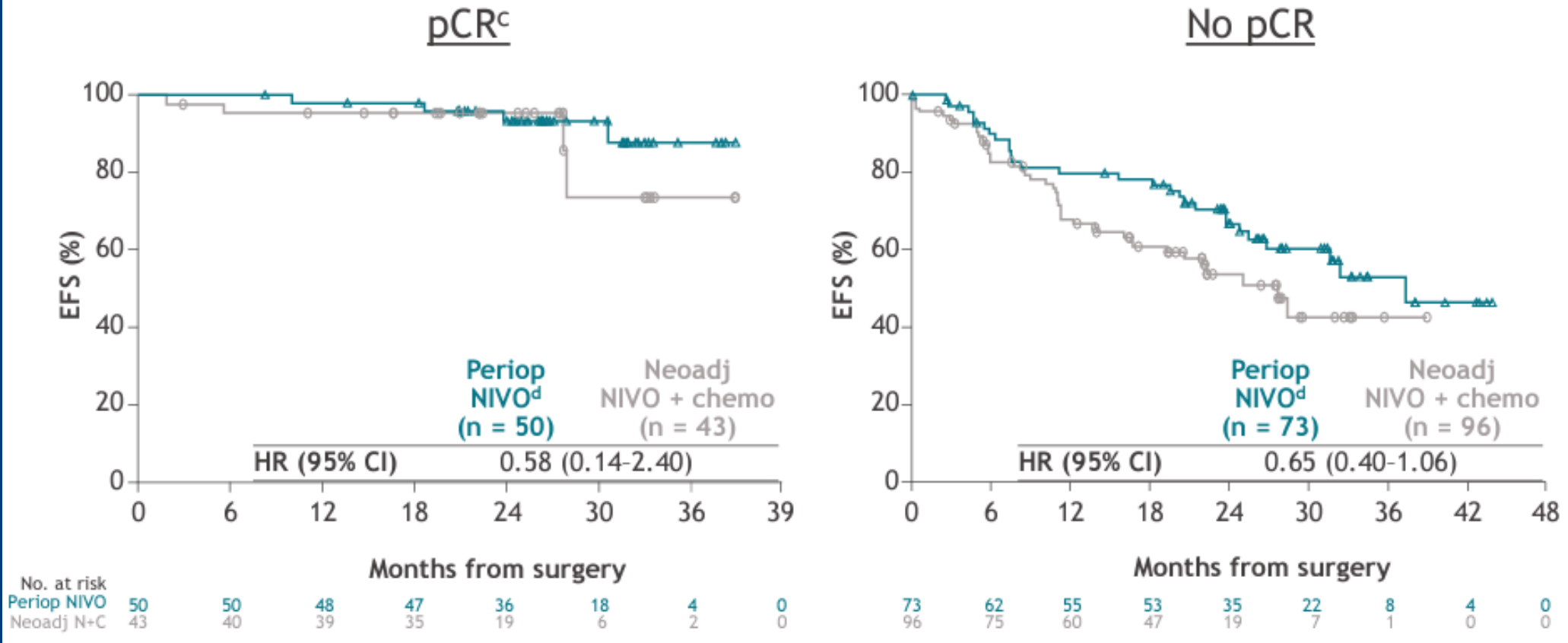
Landmark EFS (BICR) from definitive surgery





CM 816 v CM 77T: Meta-Analysis

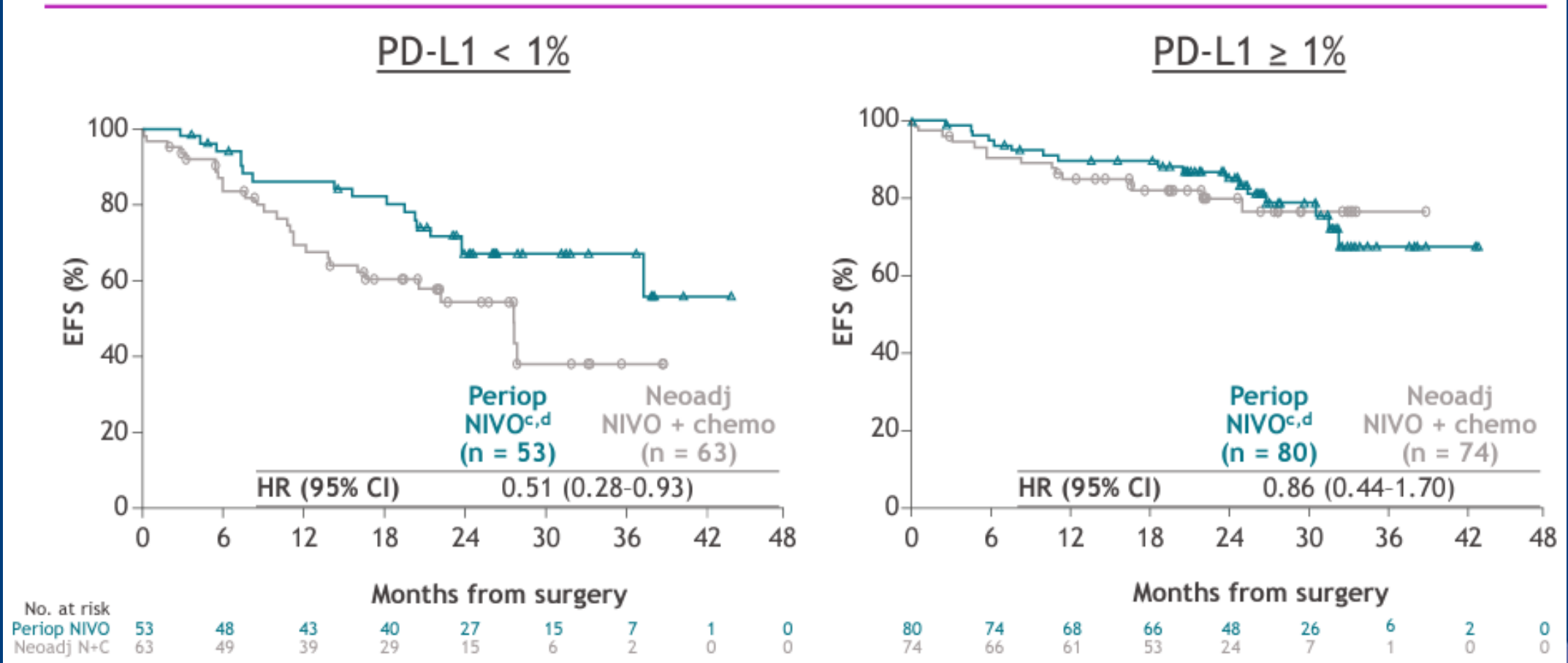
Landmark EFS^a (analysis population) by pCR status^{a,b}





CM 816 v CM 77T: Meta-Analysis

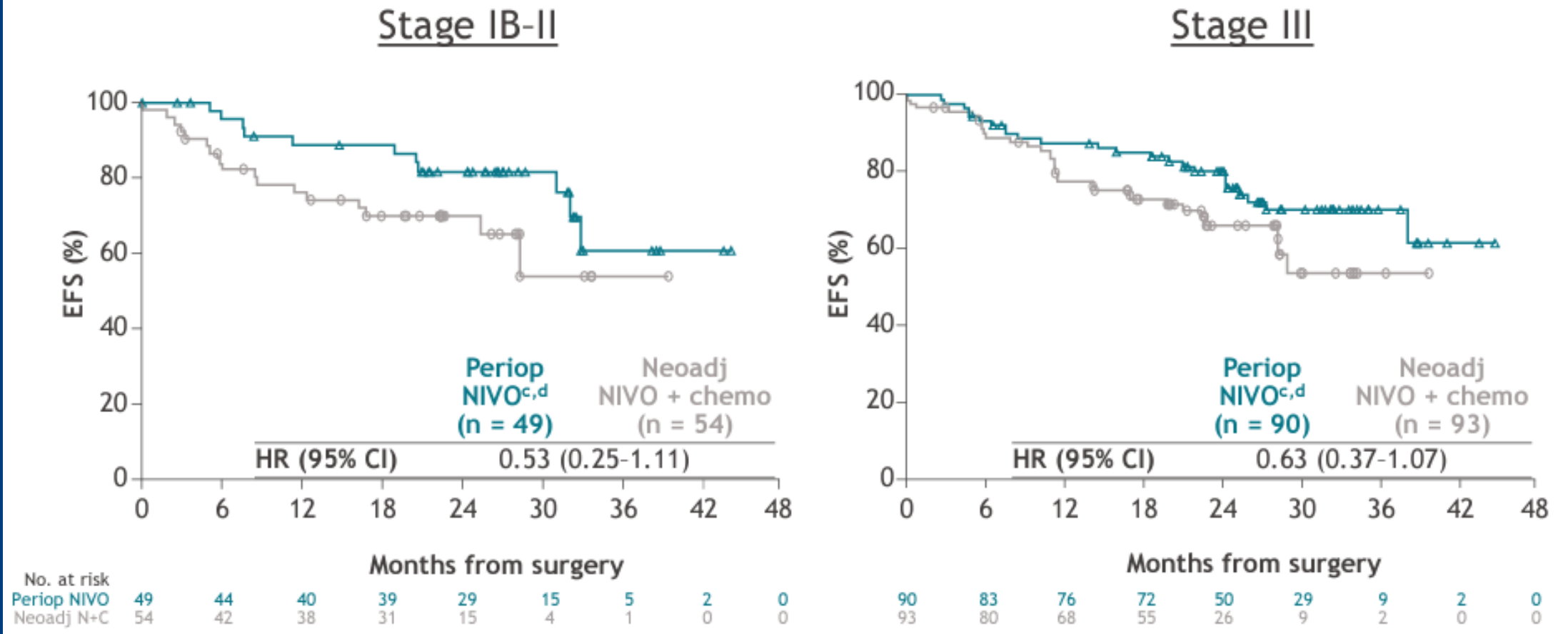
Landmark EFS (analysis population) by tumor PD-L1 expression^{a,b}





CM 816 v CM 77T: Meta-Analysis

Landmark EFS (analysis population) by clinical stage^{a,b}





Questions From the Data

- Do the results prove benefit of perioperative treatment?
 - No, but strong evidence
- Does this give information to select who gets adjuvant immunotherapy?
 - Not yet
- Are there patient populations more tempting for adjuvant immunotherapy?
 - Yes
- Can we definitely select who should NOT receive adjuvant immunotherapy?
 - Not yet



How Do We Decide?

- Patients with pCR?
 - Less benefit with adjuvant?
- Patients with PD-L1 negative?
 - Benefit with adjuvant
- Patient with Stage II (Benefit), without pCR (Benefit), PD-L1 positive (No Benefit)?
- All hypothesis-generating but not ready for clinic tomorrow



What Will Help Us Move Forward?

- Head to head comparative studies
- Including different populations (pCR vs no, etc)
- Novel perioperative combination trials



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What Treatment Schedule Has Been
Shown to Help Patients Live the Longest?

~~X~~ Perioperative Immunotherapy Is the
New Standard of Care ~~X~~

