

Il trattamento della malattia localmente avanzata inoperabile

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CARCINOMA POLMONARE: QUALI NOVITÀ NEL 2022?

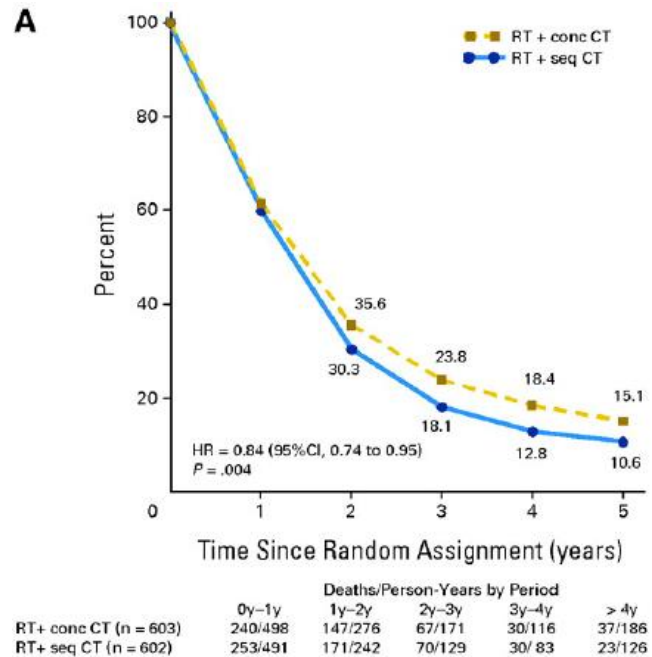
20 Maggio 2022

IRCCS "Sacro Cuore - Don Calabria"
Negrar di Valpolicella
Sala Perez

Coordinatore Scientifico: Dr.ssa Stefania Gori

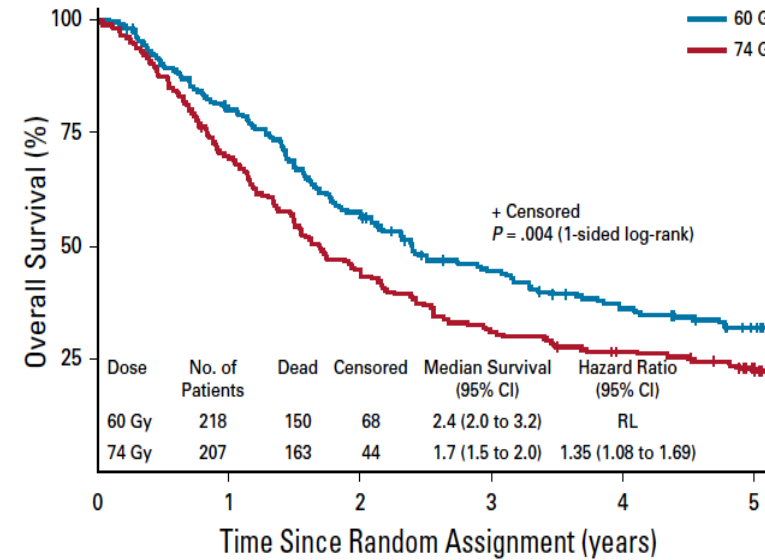
Changes in the treatment paradigm for unresectable stage III NSCLC

Older CRT studies (< 2005)

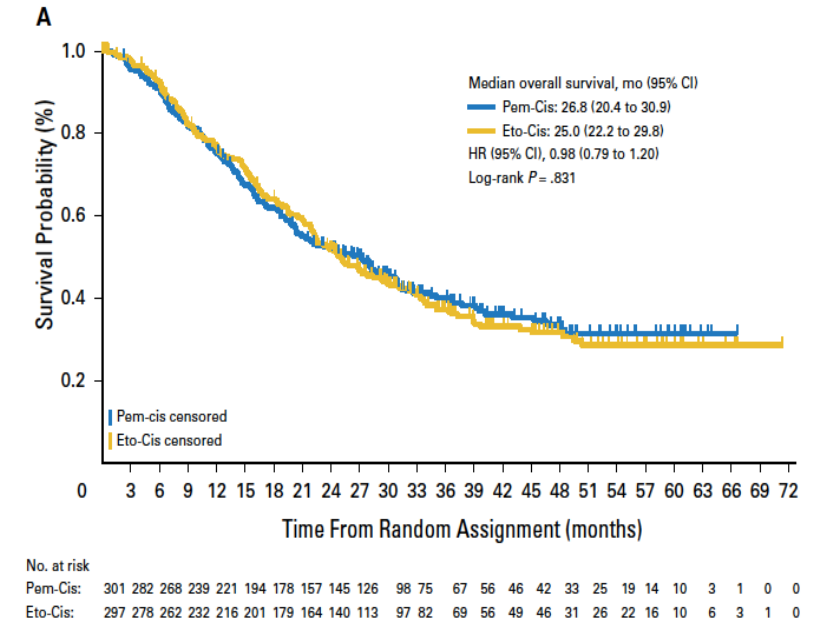


**cCRT vs sCRT
meta-analysis**

Modern cCRt (2005-2018)



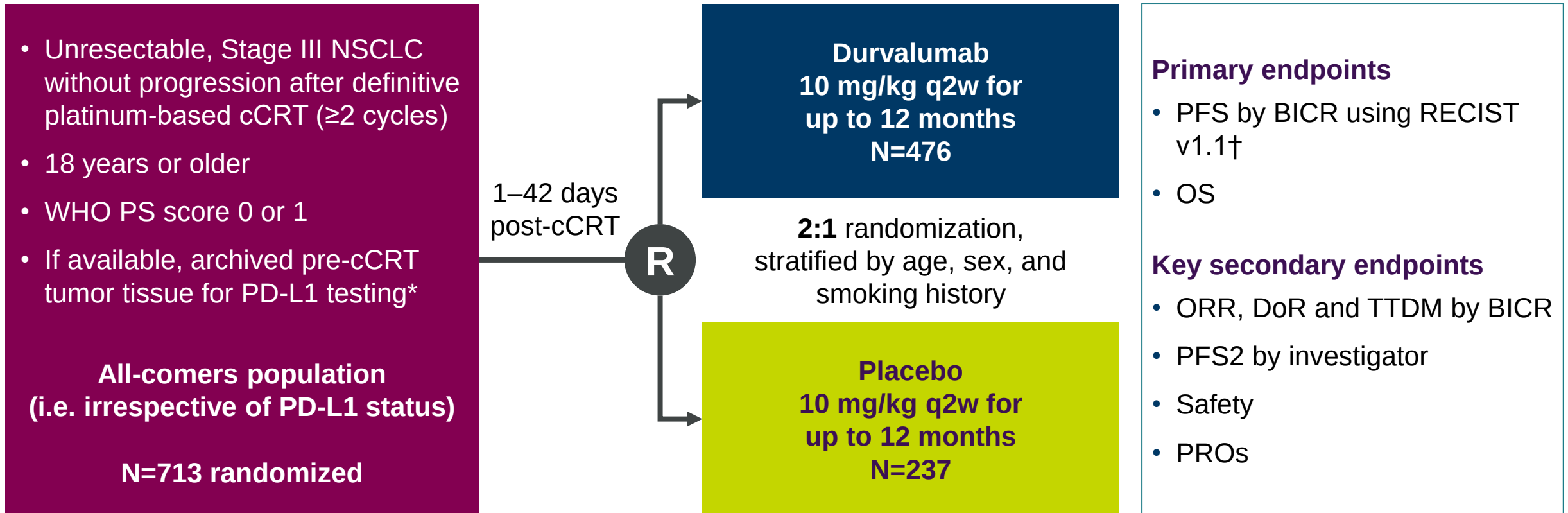
**RTOG 0617:
60 vs. 74 Gy**



**PROCLAIM:
cis-pem vs. cis-eto for non-squamous**

Auperin et al, JCO 2010; Senan et al, JCO 2016; Bradley et al, JCO 2021.

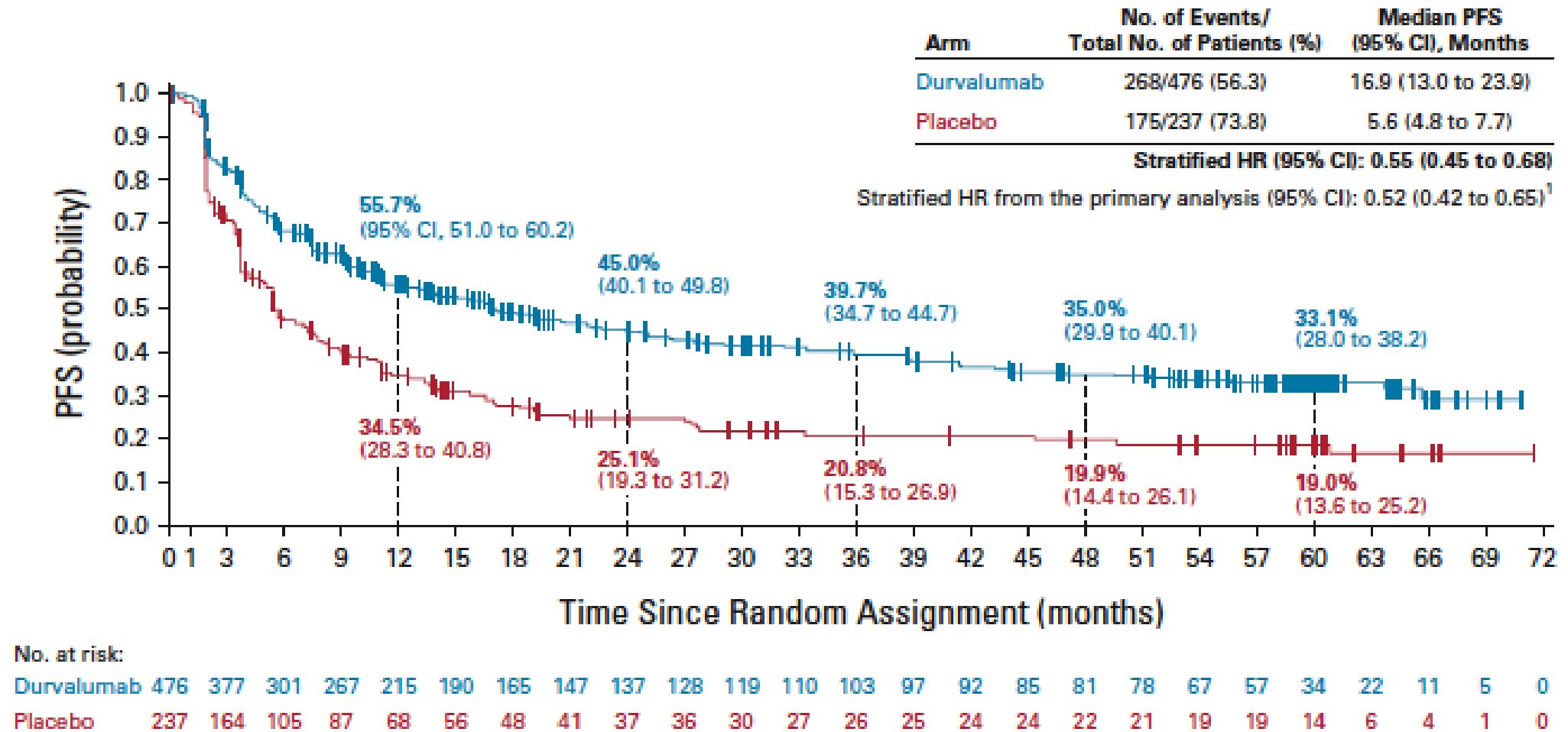
PACIFIC phase 3 study design



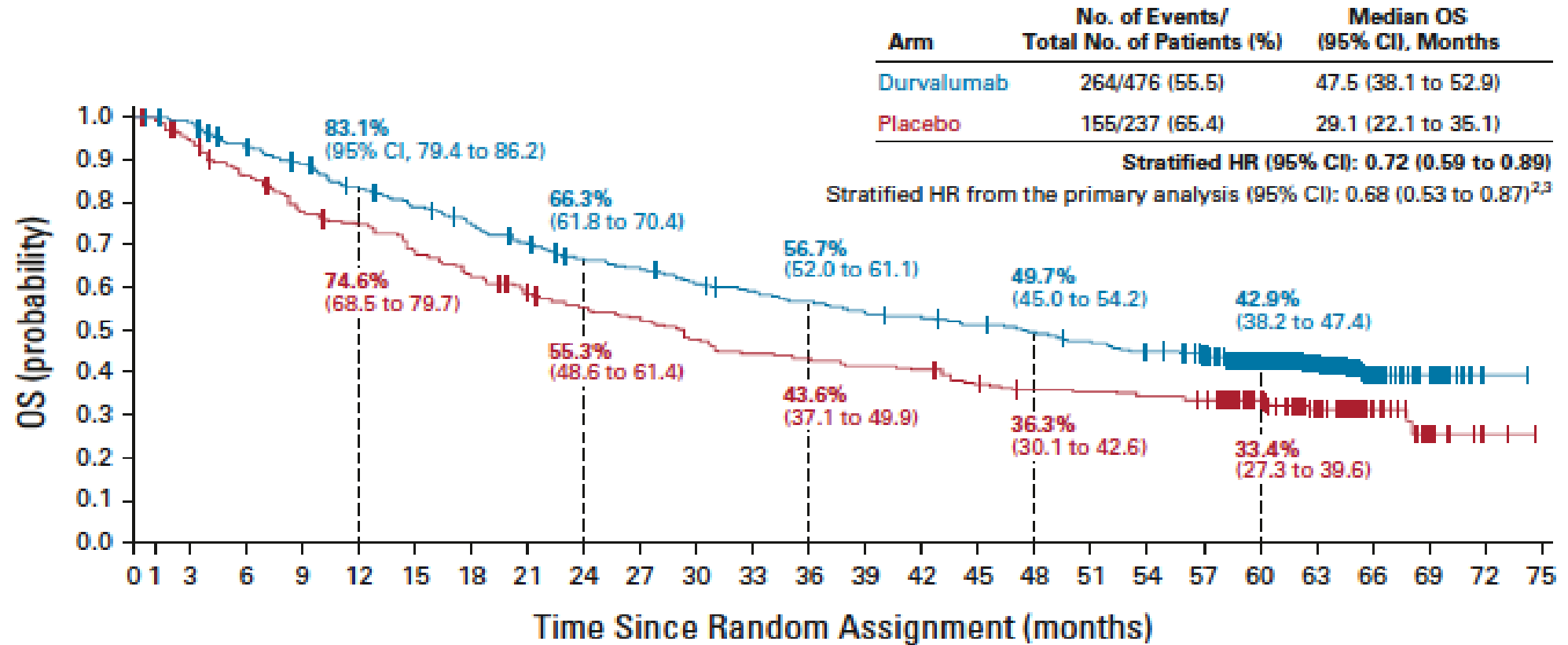
BICR, blinded independent central review; cCRT, concurrent chemoradiotherapy; DoR, duration of response; NSCLC, non-small-cell lung cancer; ORR, objective response rate; OS, overall survival; PD-L1, programmed death ligand 1; PFS, progression-free survival; PFS2, time to second objective disease progression; PRO, patient-reported outcome; q2w, once every 2 weeks; R, randomization; RECIST, Response Evaluation Criteria in Solid Tumors; TTDM, time to death or distant metastasis; WHO PS, World Health Organization performance status

Antonia SJ et al. NEJM 2017

PACIFIC: 5-years PFS



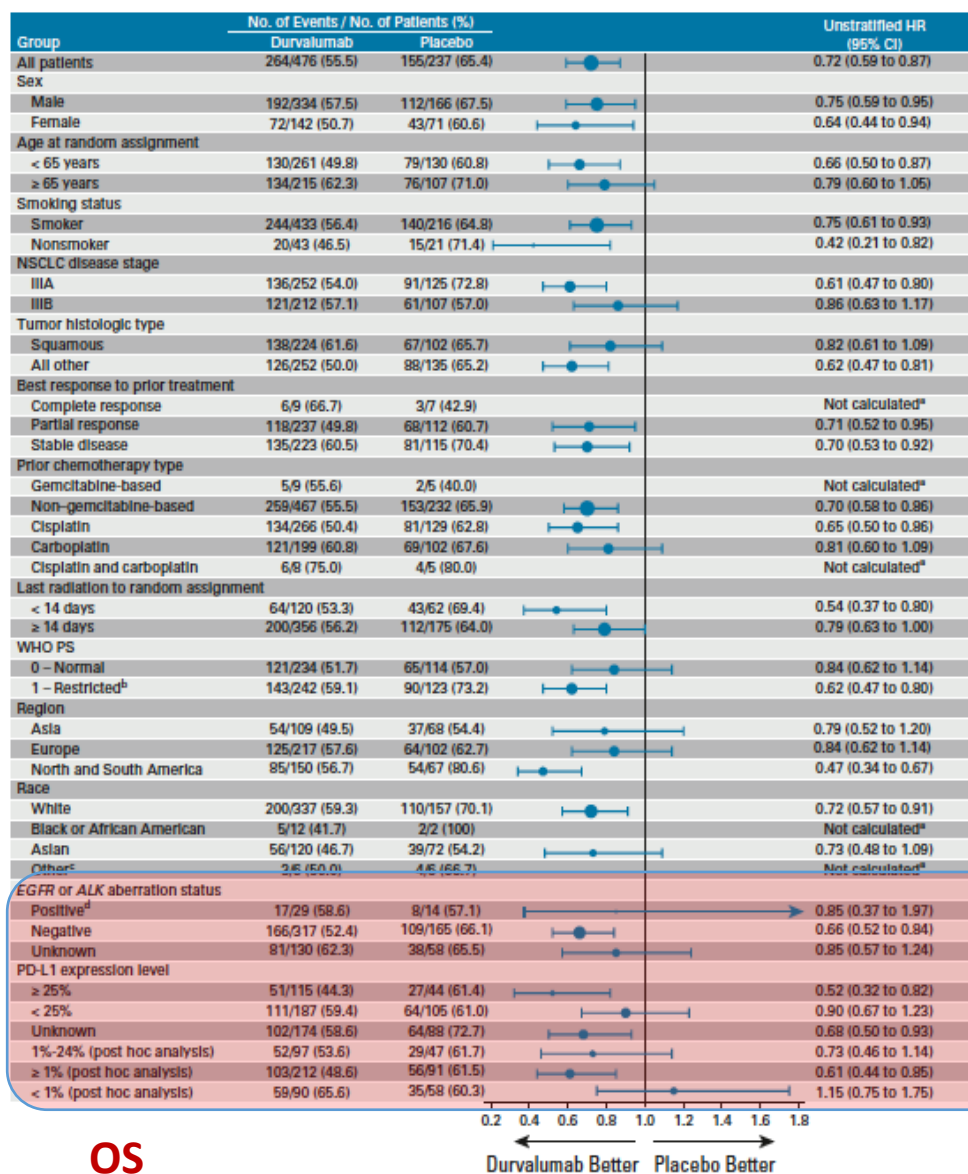
PACIFIC: 5-years OS



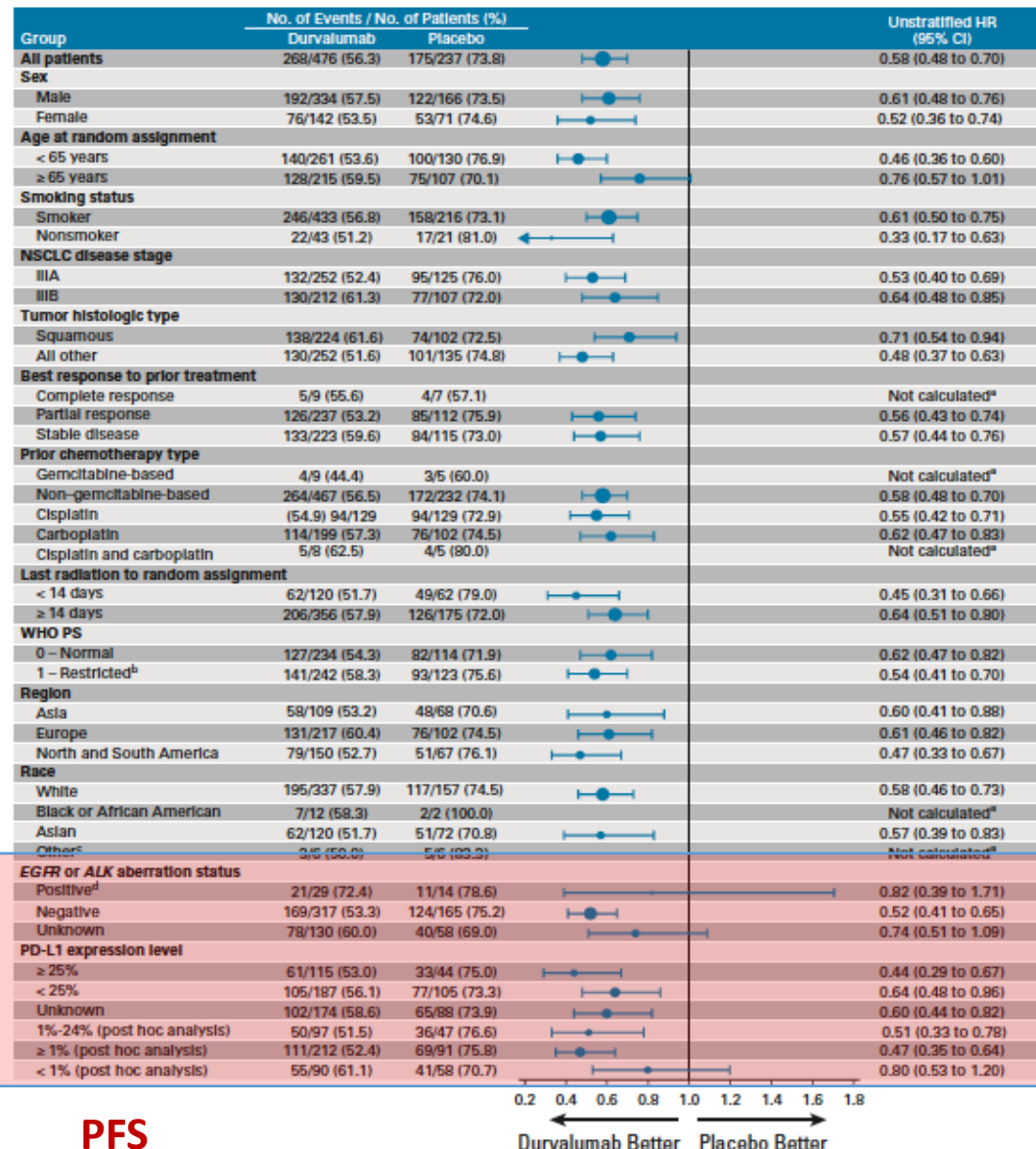
No. at risk:

Durvalumab	476	464	431	414	385	364	343	319	298	289	273	264	252	241	236	227	218	207	196	183	134	91	40	18	2	0
Placebo	237	220	199	179	171	156	143	133	123	116	107	99	97	93	91	83	78	77	74	72	56	33	16	7	2	0

Forest Plot PACIFIC: OS and PFS



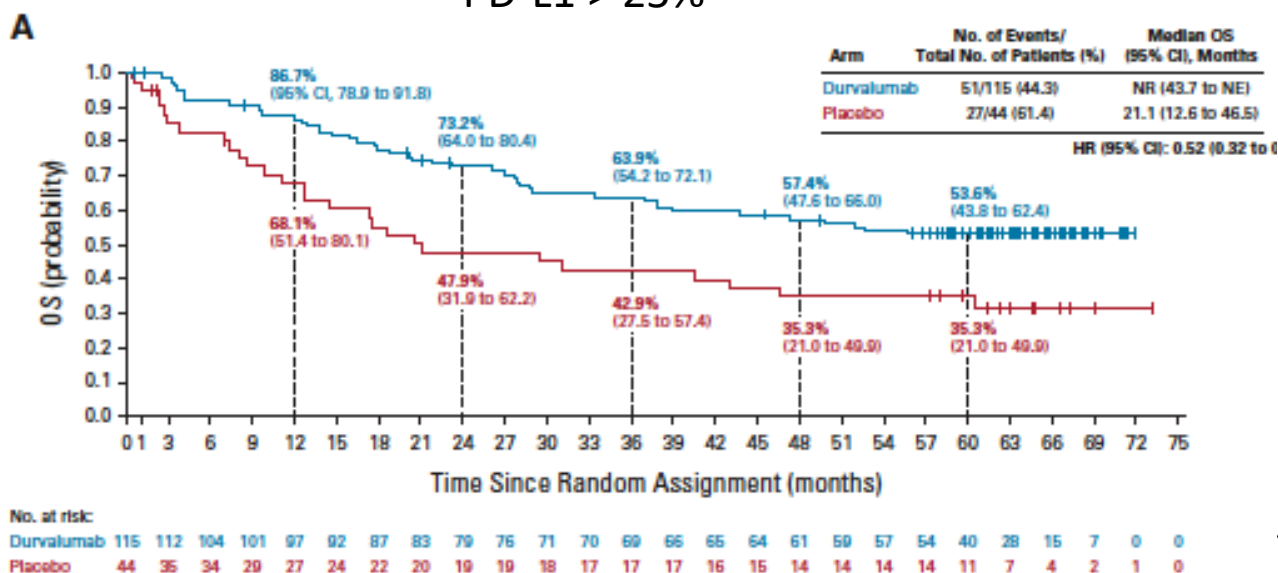
OS



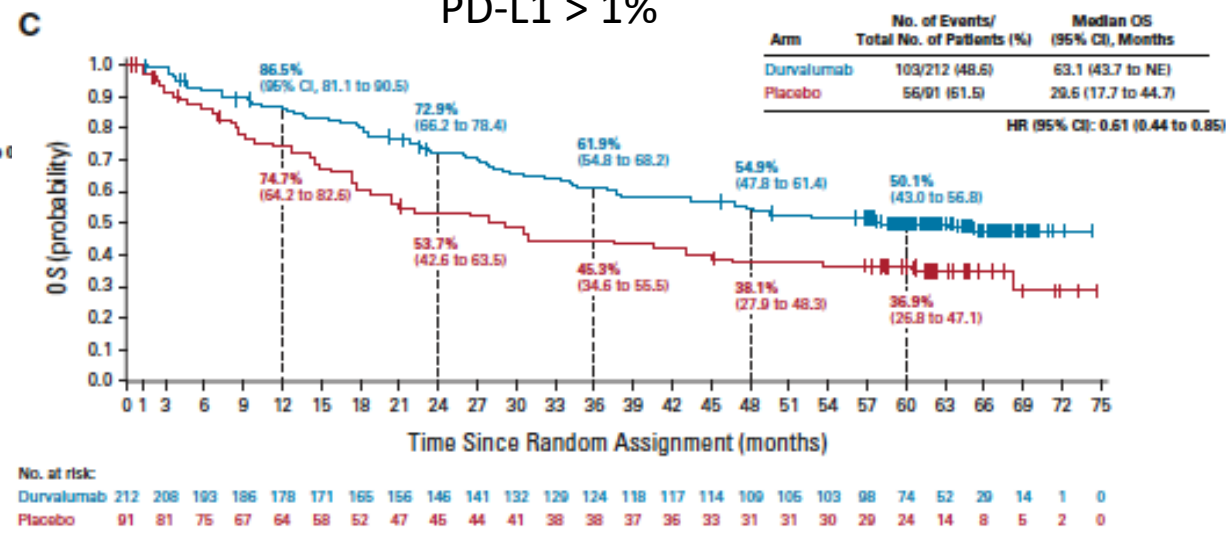
PFS

PACIFIC: Specific subgroups (1)

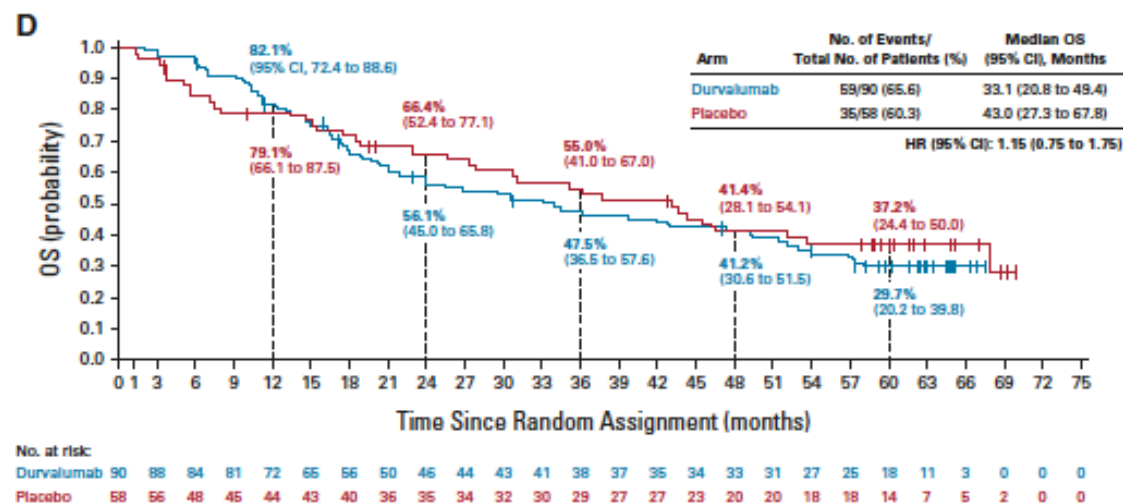
PD-L1 > 25%



PD-L1 > 1%



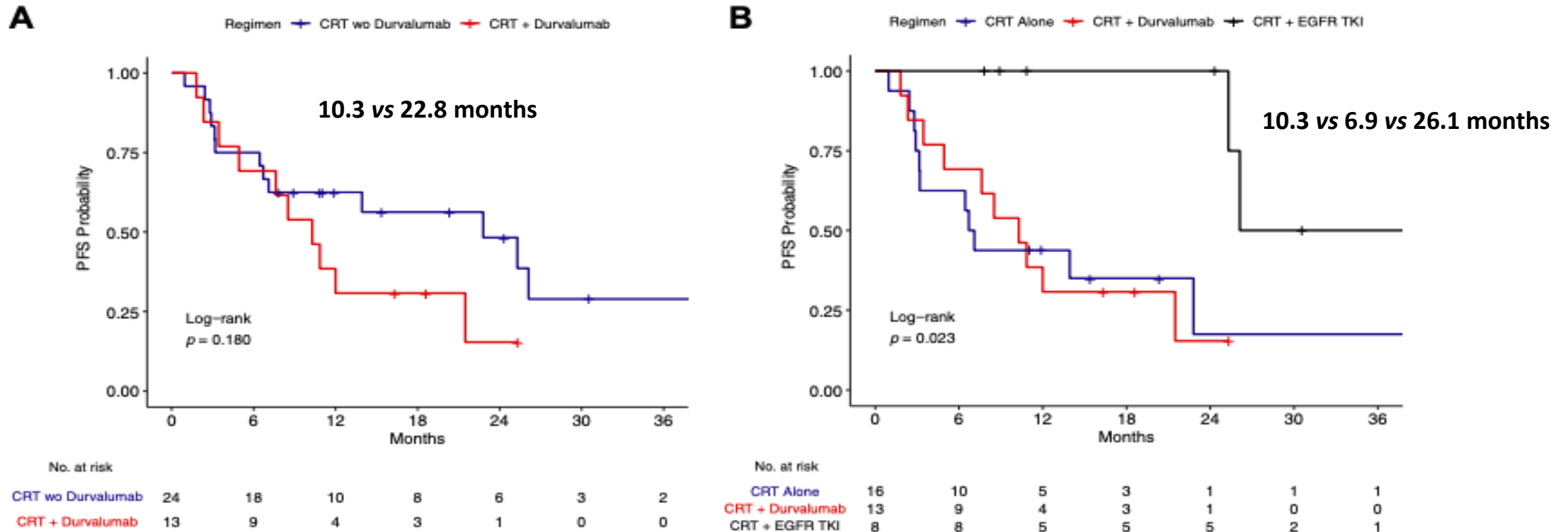
PD-L1 < 1%



Spigel et al, JCO 2022

PACIFIC: Specific subgroups (2)

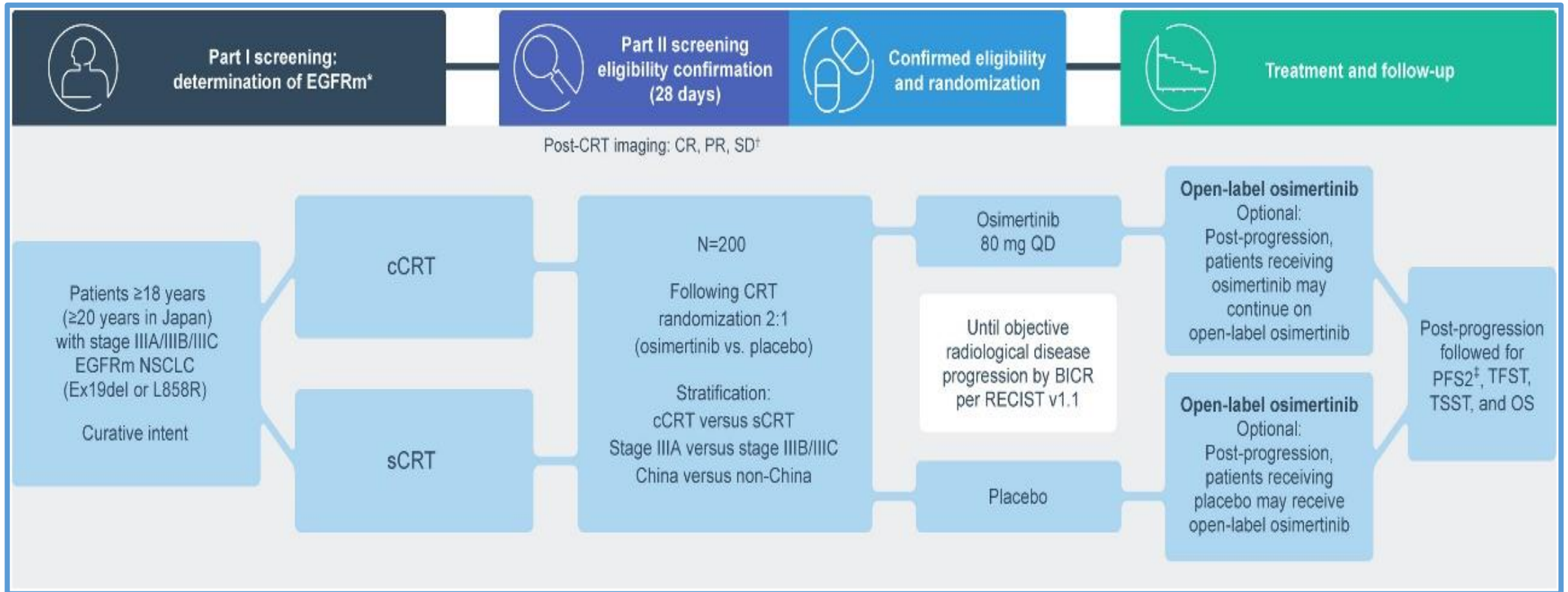
Durvalumab after CRT in *EGFR*^{mut+} NSCLC: a retrospective trial



Retrospective series:
37 pts *EGFR*^{mut+}
1 case of G4 pneumonitis

Aredo JV, et al. JTO 2021

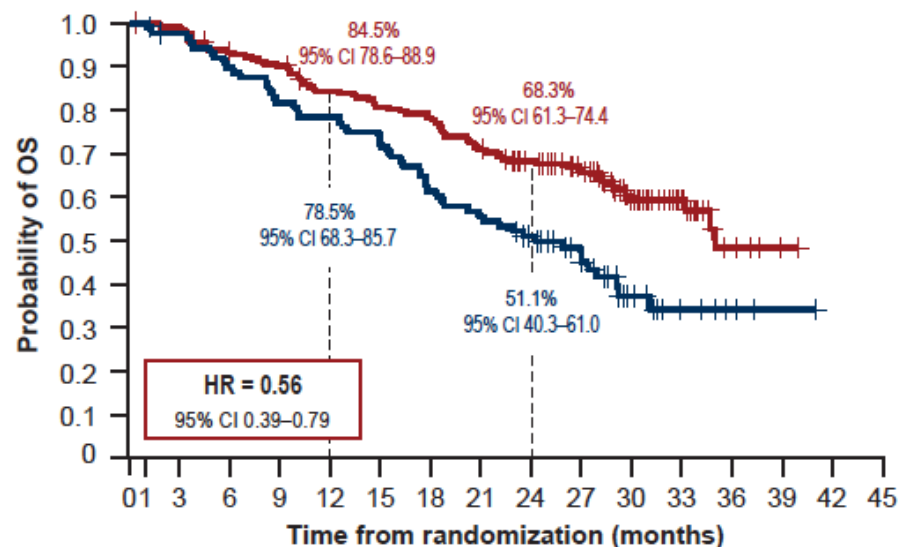
LAURA phase 3 trial for unresectable, stage III, *EGFR*mut+ NSCLC



Exploratory post-hoc analysis: IIIA-N2 and elderly (> 70 years)

N2

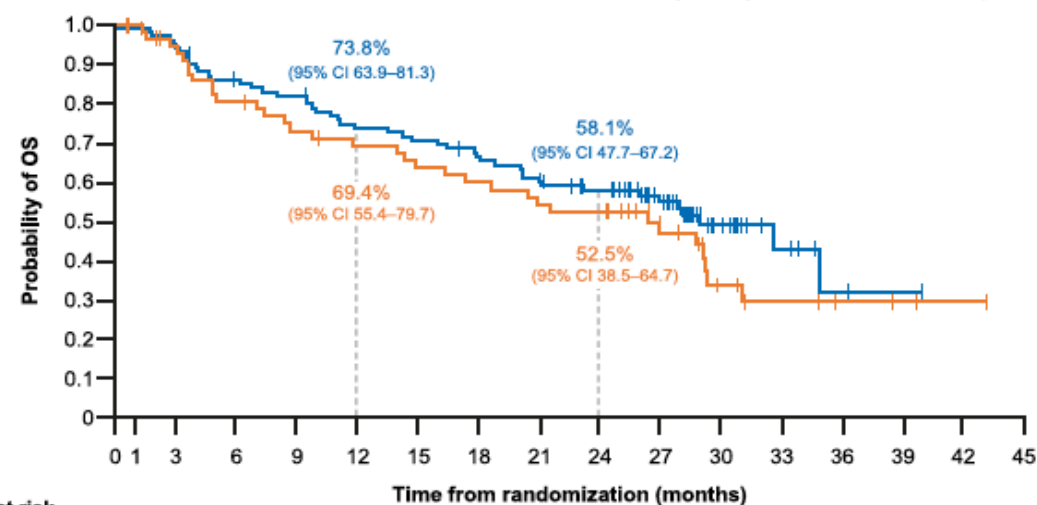
	Durvalumab (n = 197)	Placebo (n = 90)
OS events, n (%)	75 (38.1)	52 (57.8)
Median OS (95% CI), months	34.9 (33.2–NE)	24.2 (18.3–29.2)



No. at risk	01	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45
Durvalumab	197	194	181	175	162	155	150	136	118	93	48	24	7	1	0	0
Placebo	90	87	79	72	69	64	54	49	42	28	14	6	3	1	0	0

Elderly

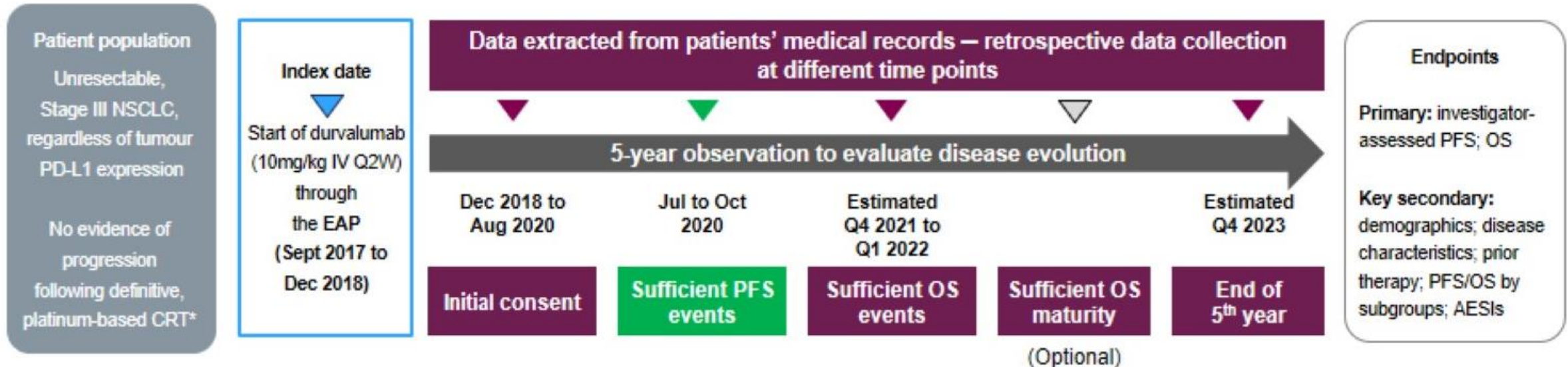
Aged ≥70 years	No. events/No. patients (%)	Median OS (95% CI), months
Durvalumab	48/101 (47.5)	29.0 (21.0–NE)
Placebo	33/57 (57.9)	26.9 (14.9–29.3)
Hazard ratio (95% CI)		0.78 (0.50–1.22)



No. at risk	0	1	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45
Durvalumab	101	95	85	81	72	69	64	58	51	37	15	7	3	1	0	0	0
Placebo	57	53	45	40	37	34	32	29	28	18	9	5	3	2	1	0	0

Does PACIFIC fit Real World ?

PACIFIC-R: An International, Observational Study



- **1,399 patients** included in the **full analysis set (FAS)** from **290 active sites** in **11 participating countries**
 - France (n=342), Spain (244)[†], Australia (165), Netherlands (155), Belgium (118), Italy (116), Israel (92), Germany (62), UK (54), Norway (36), and Switzerland (15)

Patient Characteristics & Durvalumab Treatment

Characteristics		FAS (N=1,399)
Age at EAP inclusion (years)	Median (range)	66.0 (26–88)
Age categories, %	≤75 years / >75 years	89.6 / 10.4
Sex, %	Male / Female	67.5 / 32.5
Smoking status at EAP inclusion, %	Never / Current / Former	7.9 / 32.6 / 59.5
Stage at diagnosis, % ^A	Stage IIIA	43.2
	Stage IIIB/C	51.0
Histological subtype, % ^B	Squamous	35.5
	Non-squamous	63.1
	Unknown	1.4
ECOG/WHO PS at EAP inclusion, %	0 / 1 / 2 / 3	51.4 / 46.6 / 1.9 / 0.1
CRT type, % ^C	Concurrent	76.6
	Sequential	14.3
	Other	9.1
PD-L1 expression, % ^D (Based on n=967 tested patients)	≥1%	72.5
	<1%	17.9
	Inconsistent [†]	9.6

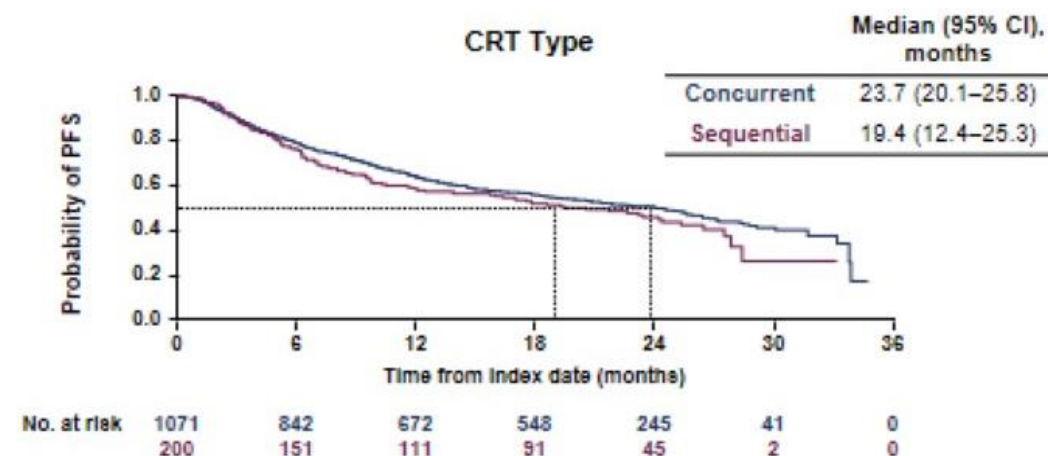
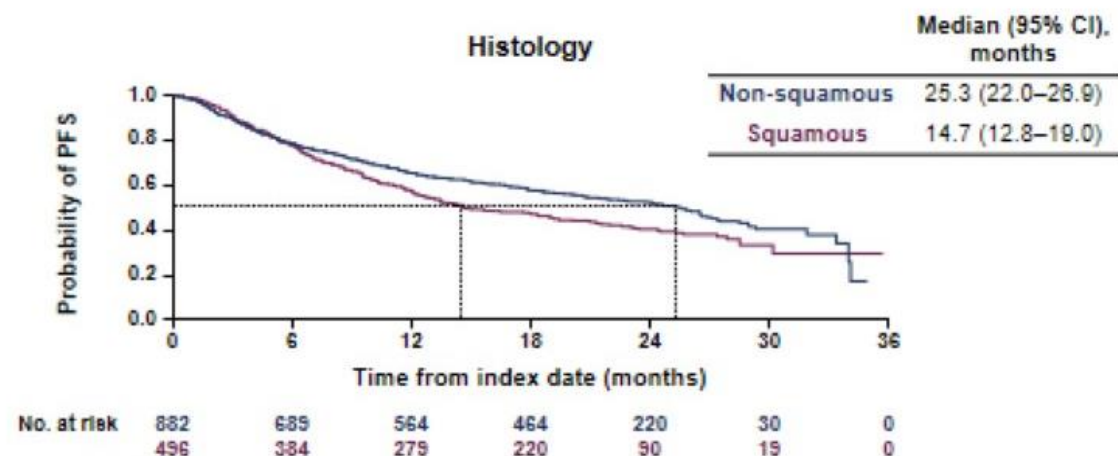
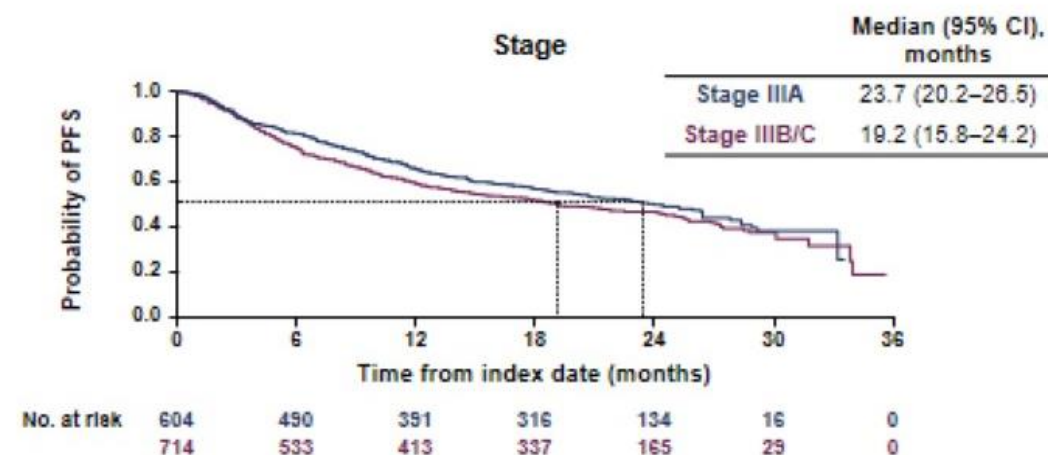
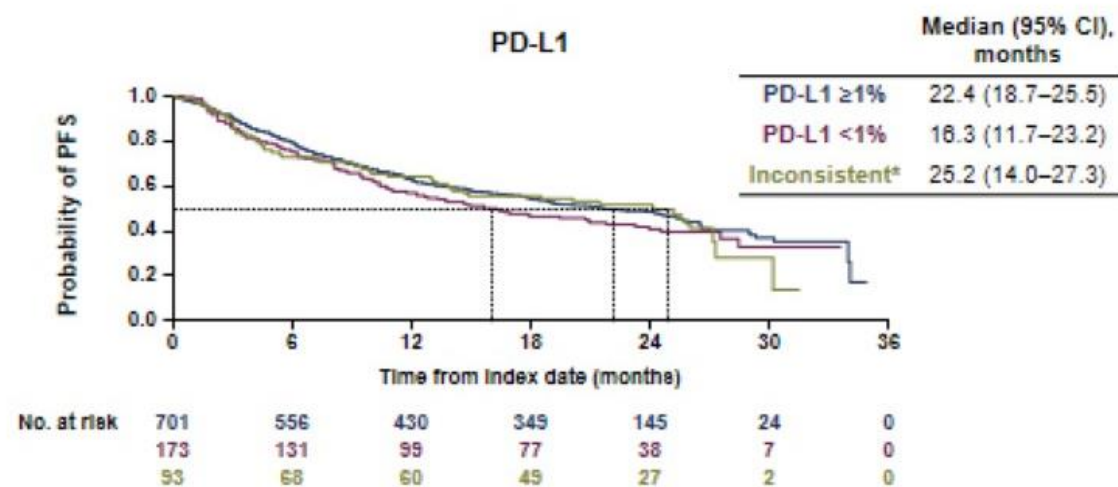
- **Median time to durvalumab initiation from the end of RT = 56 days**
- **Overall median durvalumab treatment duration = 335 days (~11 months)**
 - >12 months' treatment: 20.1%
 - >14 months' treatment: 4.4%
- **Patients received a median of 22 durvalumab infusions**
 - 7.1% received >26 infusions

Real-world PFS (FAS) – Median Follow-up Duration = 23.0 Months*

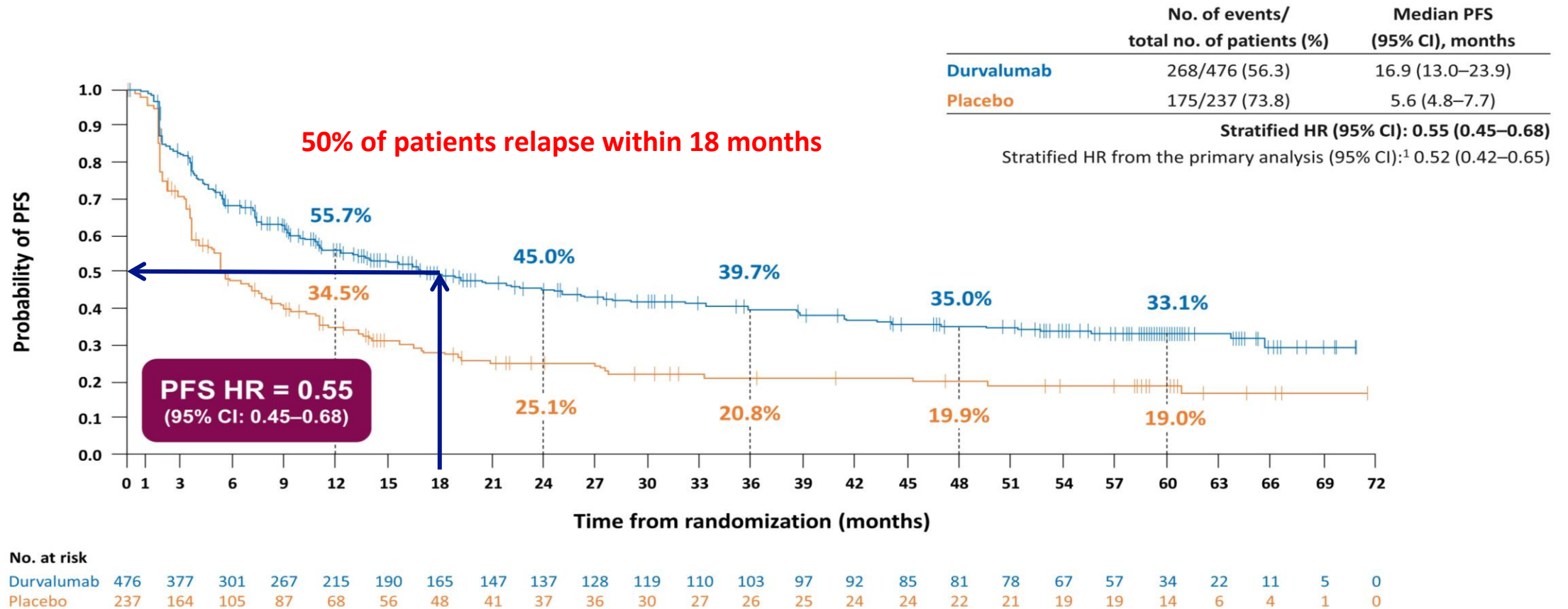
- Median rwPFS in PACIFIC-R was higher than the median PFS reported for the durva. arm of the PACIFIC trial^{1†}
- Challenges with collecting rwPFS data limit comparisons between PACIFIC-R and PACIFIC
- RwpFS is likely overestimated as:
 - Germany and UK sites did not collect deaths that occurred prior to study enrolment[‡] (50 early deaths not counted)
 - RECIST criteria for tumour assessments is used heterogeneously across countries
 - Assessments for progression in the real world may not occur as frequently or consistently as in clinical trials; the COVID-19 pandemic may also have resulted in fewer hospital visits

	PACIFIC-R FAS	PACIFIC trial (durva. arm) ¹
PFS	N=1,399	N=476
Total events, N (%)	737 (52.7)	268 (56.3) [†]
Progression per RECIST	456 (32.6)	
Progression per physician assessment	170 (12.2)	
Progression, assessment unknown	30 (2.1)	
Deaths in absence of progression	81 (5.8)	
Median PFS, months	21.7	16.9
95% CI	19.2–24.5	13.0–23.9
PFS rate, %		
12 months	62.4	55.7
24 months	48.2	45.0

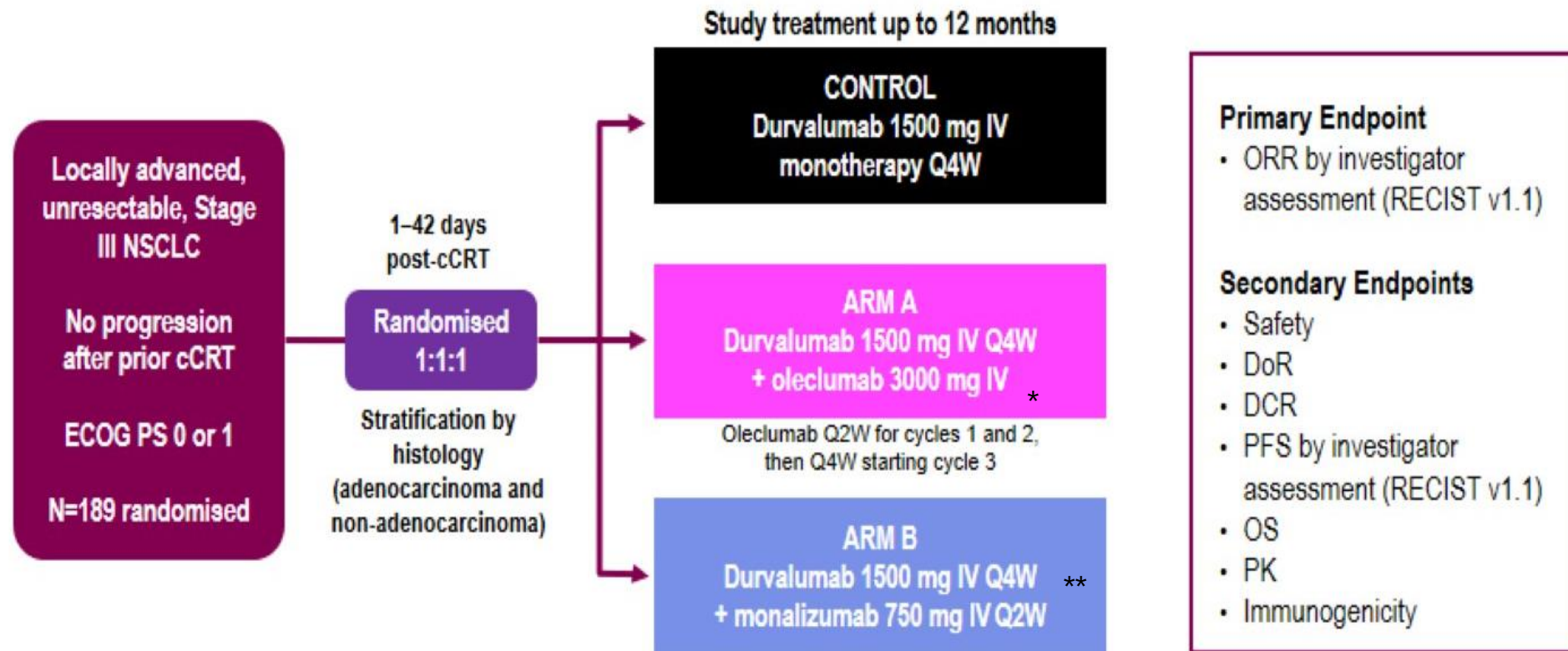
Real-world PFS by Subgroup



Durvalumab maintenance: can we improve the results?



COAST: Phase II, randomized open-label study

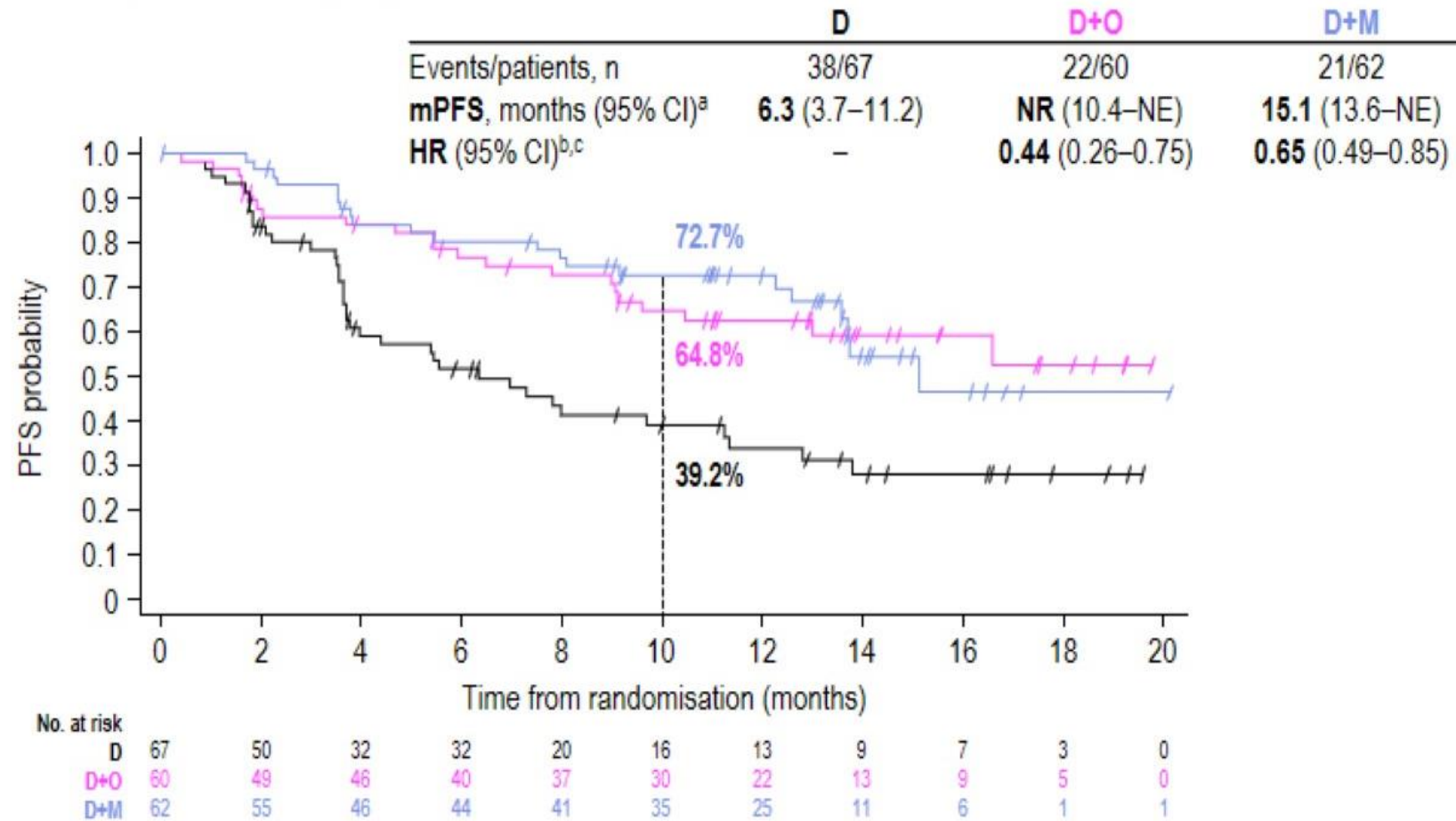


* Monoclonal antibody against the CD73

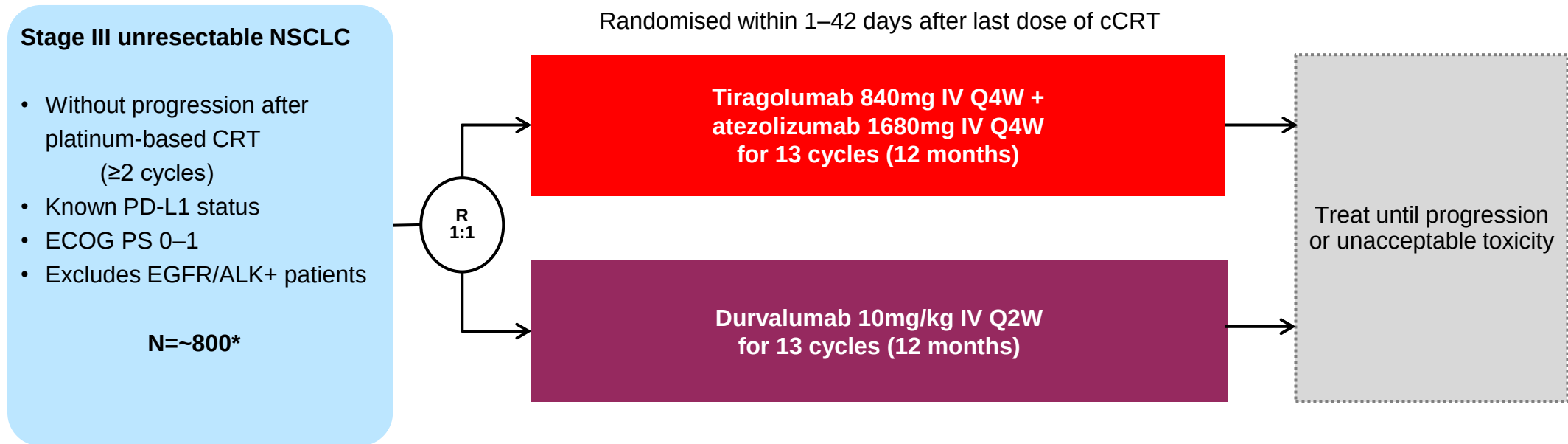
** First-in-class immune checkpoint inhibitor targeting Natural Killer Group 2A (NKG2A)

Marti AM et al ESMO 2021

COAST: PFS by investigator



SKYSCRAPER-03 (GO41854): tiragolumab + atezolizumab in Stage III unresectable NSCLC



Stratification factors:

- PD-L1 status (<1% vs ≥1%)
- ECOG PS (0 vs 1)
- Staging (IIIA vs IIIB or IIIC)
- Histology (NSQ vs SQ)

Primary endpoint:

- PFS (IRF-assessed)

Secondary endpoint:

- OS
- PFS (INV-assessed)
- Confirmed ORR
- DoR
- Landmark PFS/OS

- Time to death or distant metastasis
- Time to confirmed deterioration
- Safety

CONCLUSIONS

- ❑ Durable and sustained PFS and OS benefit (confirmed also in elderly pts)
- ❑ ORR was approximately 10% higher with durvalumab, and half of responding patients had ongoing responses at 5 year: long-term evidence for sustained improvement in local disease control (biologically and clinically relevant for future trials)
- ❑ TFST and TSST, better for durvalumab with HR 0.65 for both, suggest that the survival benefit is largely driven by PFS benefit, and differences in salvage therapies between the two arms did not affect survival benefit
- ❑ Open issues:
 - PD-L1 negative patients (confirmed lack of OS benefit? re-biopsy, other strategies?)
 - Sequential vs. concurrent CRT (PACIFIC-6 and PACIFIC-R data)?
 - Frail, chemo-ineligible patients?
 - Duration of durvalumab maintenance?
 - Therapy at progression?
 - Earlier use of IO (PACIFIC2 and other trials)

PACIFIC updated results:

PS: 0-1, responding patients after cCRT

- OS @ 5 yrs : 43%, median OS 47.5 months, HR 0.72
- PFS @ 5yrs: 33% @ 5 yrs, median 16.9 months, HR 0.55

