The Role of immunotherapy and targeted therapy in early-stage NSCLC

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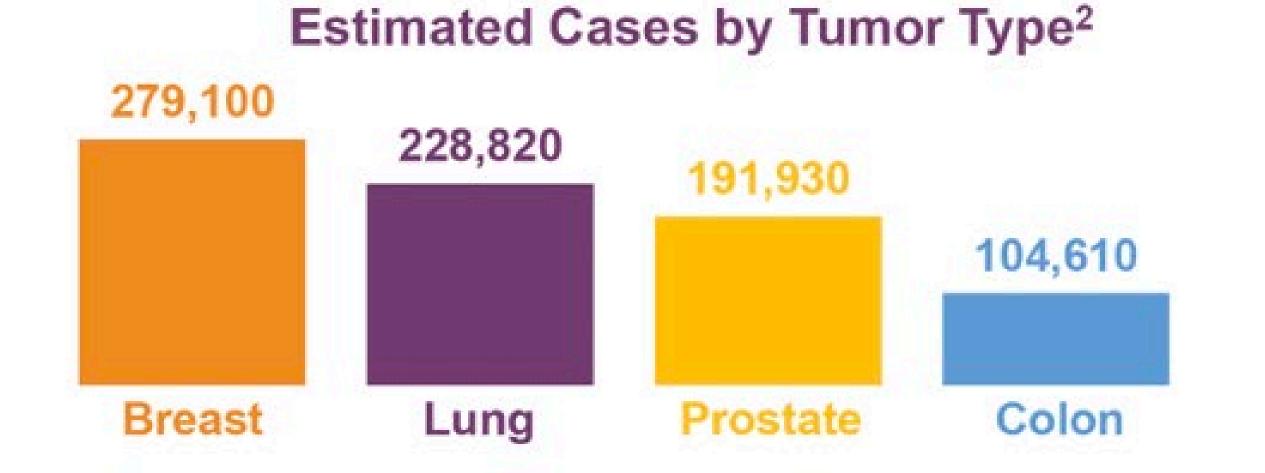


Disclosure of Conflicts of Interest

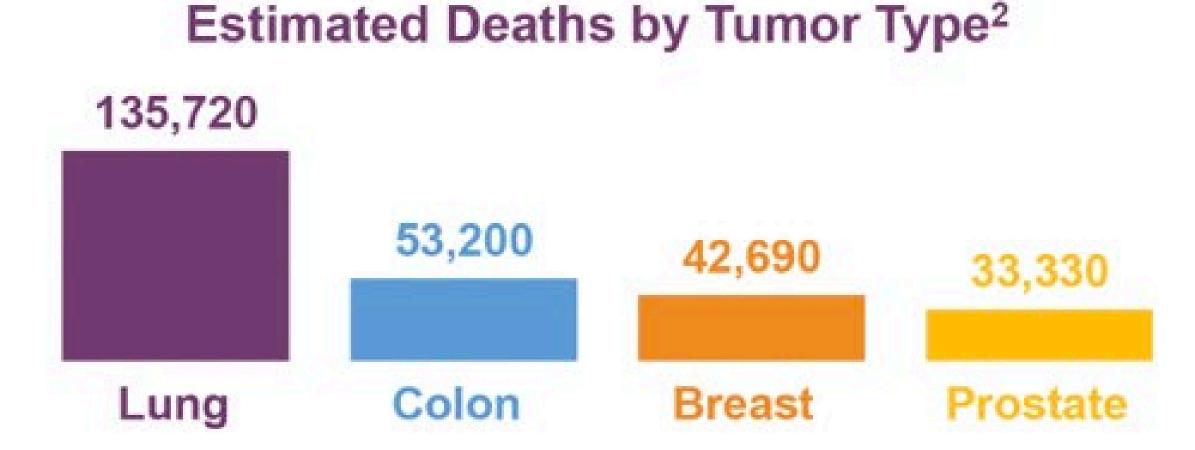
- •Speaker Bureau: Lilly, AstraZeneca, BMS, Blueprint, Genentech, Regeneron
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Lung Cancer Screening

The NLST studied the risks and benefits of screening with LDCT in >53,000 patients at high risk of lung cancer^{1a}



The mortality rate from lung cancer for patients with high risk factors using LDCT was reduced by 20%1

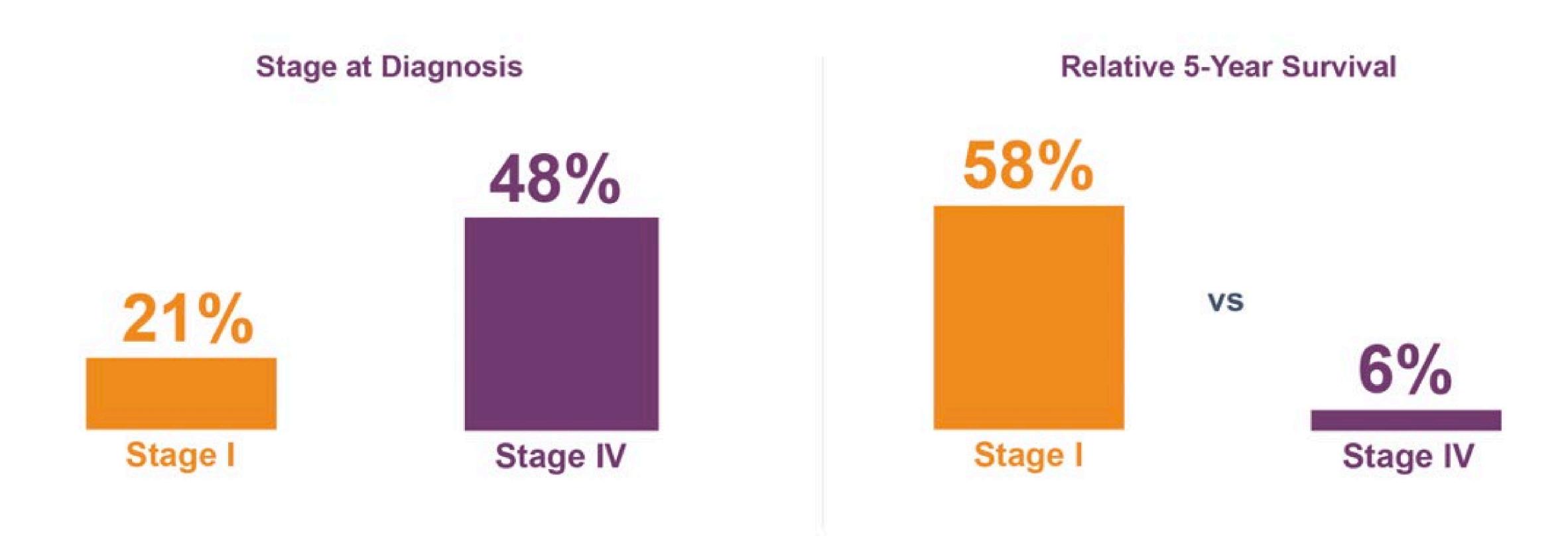


of people found to have cancer in the LDCT arm of the NLST were diagnosed at an early stage¹



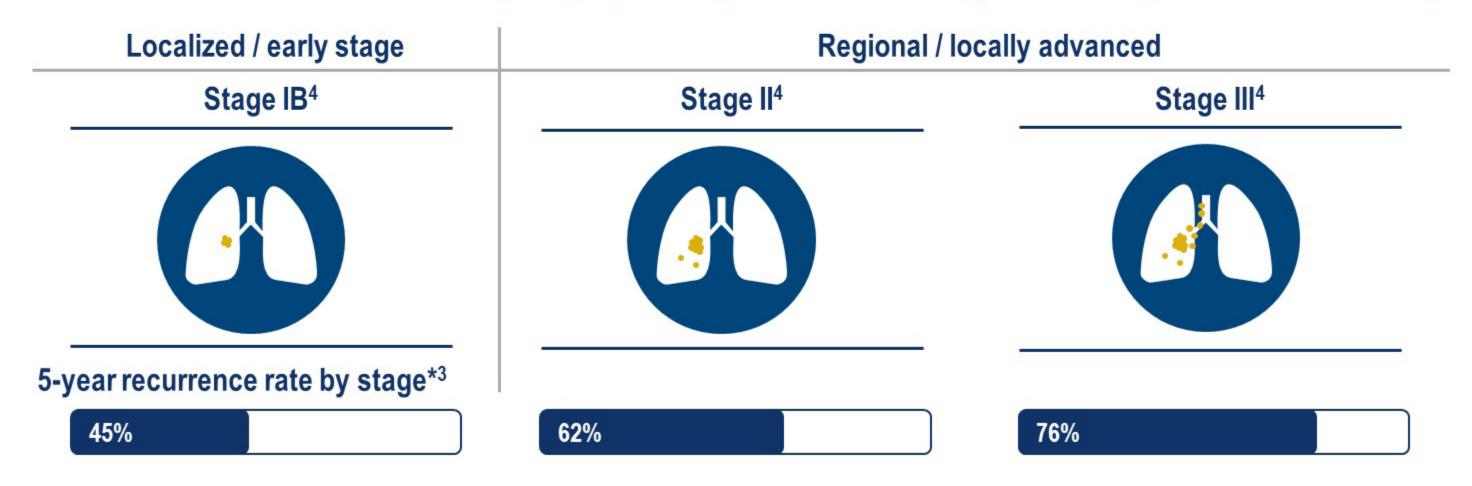
320 LDCT screenings to prevent 1 death from lung cancer¹

Lung Cancer Survival



Outcomes in early stage NSCLC need to be improved

- Surgery is the primary treatment for patients with early stage NSCLC¹
- Adjuvant cisplatin-based chemotherapy is recommended for patients with resected stage IIIIIA NSCLC and select patients with stage IB disease²
 - Results from large randomized trials and meta analyses showed a 5-year OS benefit with adjuvant chemotherapy in patients with early stage NSCLC, OS HR 0.89 (95% CI 0.82, 0.96); DFS also favored adjuvant chemotherapy, DFS HR 0.84 (95% CI 0.78, 0.91)³
- Overall, disease recurrence or death following surgery and adjuvant chemotherapy remains high across disease stages³



Neoadjuvant Immunotherapy in NSCLC



Why consider neoadjuvant therapy in localized NSCLC?

Advantages

- Addresses micrometastatic disease early
- Potential for increased compliance with systemic therapy
- Pathologic response may be early surrogate endpoint for survival
- Facilitates translational studies

Disadvantages

- Delays surgery
- Risk of progression prior to surgery
- Potential for increased surgical complications
- Potential for overtreatment

Neoadjuvant Therapy potential advantages

Preoperative systemic therapy for patients with resectable NSCLC offers the advantage of reducing tumor size

increasing the rate of R0 resections

Abrogating progressive disease by earlier treatment of micro-metastases

Major pathologic response (MPR) after neoadjuvant treatment

May provide a surrogate for long-term survival

Benefit has been demonstrated with neoadjuvant chemotherapy



Neoadjuvant Immunotherapy potential advantages

Neoadjuvant ICI has a more favorable safety profile than platinum-based chemotherapy

Changes in the tumor microenvironment that allow for immune tolerance and escape occur in early-stage disease *

A recent retrospective analysis (711 pts) demonstrated that patients with resected tumors harboring higher levels of CD8+ cytotoxic T cells, CD20+ B cells, and CD 56/57 NK cells had improved disease-free survival (DFS) and OS #

Patients whose tumors harbored increased FoxP3+ T regulatory cells had worse OS #



First pilot study Nivolumab

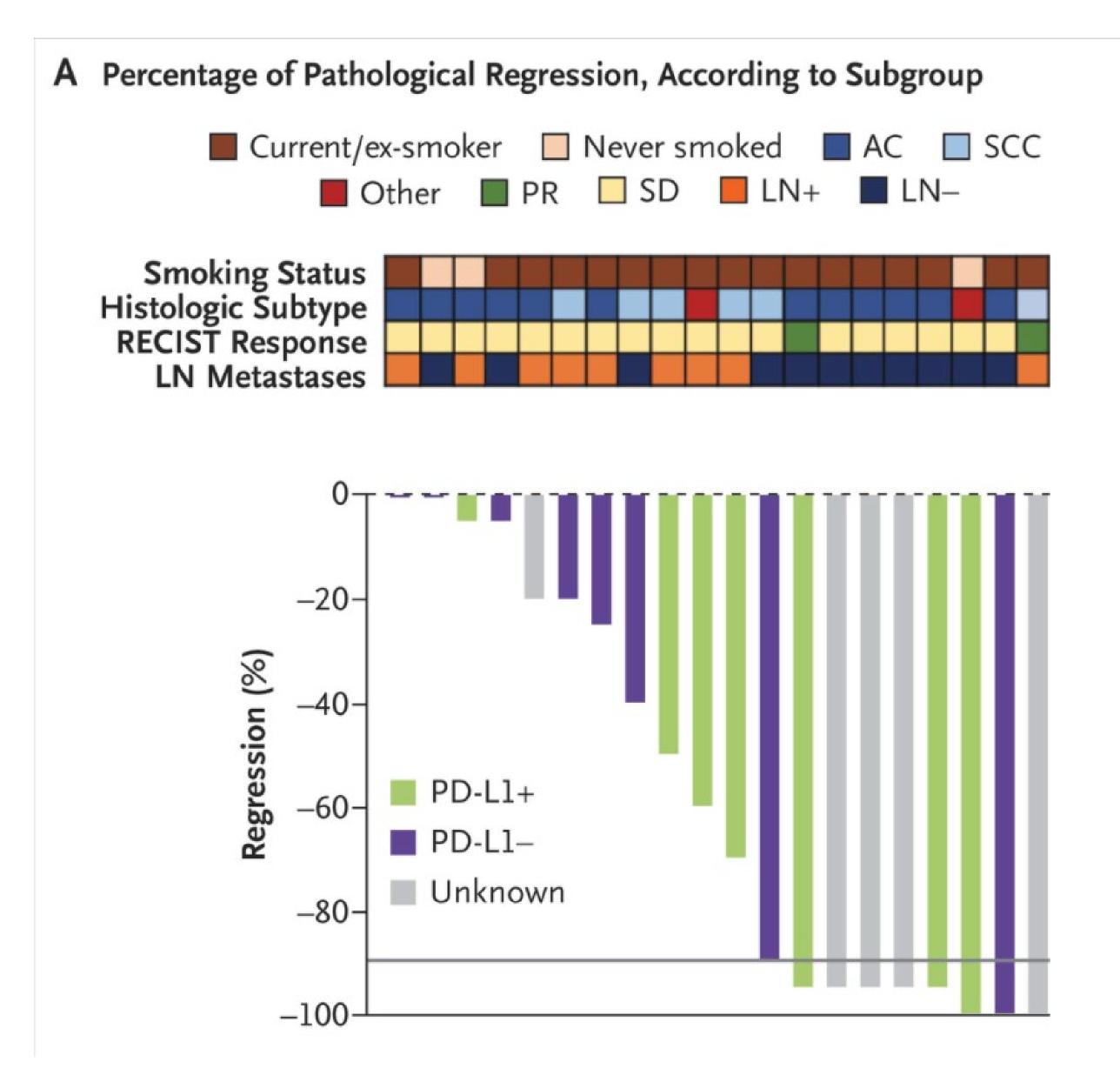
Early evidence of responses to neoadjuvant ICI

- Eligible patients were 18 years of age or older and had stage I, II, or IIIA NSCLC that was deemed to be surgically resectable
- Key exclusion criteria were immunodeficiency, ongoing systemic immunosuppressive therapy, active autoimmune or infectious disease, and clinically significant concurrent cancer
- The primary end points were safety and feasibility
- The patients (21) received two doses of intravenous nivolumab (at a dose of 3 mg per kilogram of body weight) every 2 weeks
- Surgery was planned 4 weeks after the first dose (20 pts)
- Forde PM, Chaft JE, Smith KN, et al. N Engl J Med. 2018;378:1976 1986. doi:10.1056/NEJMoa1716078



Early evidence of responses to neo-adjuvant ICI

- Clinical responses: PR 10%, SD 86%, PD 5%
- Pathological downstaging: 40%
- •Major Pathologic Response: 45%
- Median degree of pathological regression in the primary tumor was -65%
- No correlation with PDL-1 expression



• Forde PM, Chaft JE, Smith KN, et al. N Engl J Med. 2018;378:1976 – 1986. doi:10.1056/NEJMoa1716078

Neoadjuvant ICI: Pembrolizumab

Patients with stage I–II NSCLC (AJCC version 7) enrolled

Ten patients received 2 doses of pembrolizumab followed by surgery in 1 week

MPR 40%

No correlation between PDL-1 score and MPR

Bar J, Urban D, Ofek E, et al: JCO 2019;37:8534



Neoadjuvant ICI: Atezolizumab

Patients with stage I-IIIB NSCLC (AJCC version 7) enrolled

Total 84 patients received 2 doses of Atezolizumab followed by surgery

MPR 19%

Tumor regression by > 50% seen in 49% of patients

No correlation between PDL-1 score and MPR

Kwiatowski DJ, Rusch VW, Chaft JE. JCO 2019;37:8503

Trials of neoadjuvant ICI in resectable NSCLC

Trial NCT Number	Trial Name	Phase	Stage	Treatment	Primary Endpoint	MPR (No. of Patients)	PCR (No. of Patients)
NCT02259621		Phase 2	IB-IIIA	Nivolumab	Safety/ Feasibility	9/20 (45%)	3/20 (15%)
NCT02927301	LCMC3	Phase 2	IB-IIIB	Atezolizumab	MPR	15/77 (19.5%)	4/77 (5%)
ChiCTR-OIC -17013726		Phase I B	IB-IIIA	Sintilimab	Adverse events	15/37 (40.5%)	6/37 (16.2%)
NCT03158129	NEOSTAR	Phase 2	IA-IIIA	Nivolumab or nivolumab + ipilimumab	MPR	10/34 (29%)	6/34 (15%)
NCT02938624	MK3475-223	Phase I	I–II	Pembrolizumab	Safety/MPR	4/10 (40%)	Not reported
NCT02818920	TOP 1501	Phase 2	IB-IIIA	Pembrolizumab	Surgical feasibility rate	Ongoing	Ongoing
NCT02572843	SAKK 16/14	Phase 2	IIIA	Durvalumab	EFS	Ongoing	Ongoing



Is there a correlation between MPR and outcome

- End point in these early trials is MPR or PCR
- Is this a surrogate for OS, PFS and long-term outcome?

- Prospective trial of 55 resectable patients IIIA/IIIB
- Chemo/rad 94.5%
- Chemo alone 5.5%
- Peri-operative mortality3.6%
- Five-year survival:
- •MPR 53.5% Non-MPR 18%
- PFS:
- MPR 49.4 Non-MPR 18.5%



Is there a correlation between MPR and outcome

- End point in these early trials is MPR or PCR
- Is this a surrogate for OS, PFS and long-term outcome?

- Retrospective rial of 759 patients with PCR (pT0N0)
- Stage I 5.8%
- Stage II 26.4%
- Stage III 68.9%
- Survival associated with:
- Young age
- Female
- LN's removed
- No RT
- No pneumonectomy
- No difference in 5-yr survival among stages



Select trials of neoadjuvant chemoimmunotherapy in NSCLC

Trial NCT Number	Trial Name	Phase	Stage	Treatment	Primary Endpoint	MPR (No. of Patients)	PCR (No. of Patients)
NCT03081689	NADIM	Phase 2	IIIA	Nivolumab + carboplatin/paclitaxel	PFS	34/41 (83%)	26/41 (63%)
NCT02716038		Phase 2	IB-IIIA	Atezolizumab + cabroplatin/Nab- paclitaxel	MPR	7/11 (63.6%)	3/11 (37.3%)
NCT02572843	SAKK 6/14	Phase 2	IIIA	Durvalumab + cisplatin/docetaxel	EFS	33/55 (60.0%)	10/55 (18.2%)
NCT02998528	Checkmate 816	Phase 3	IB-IIIA	Nivolumab + ipilimumab or nivolumab + chemotherapy	EFS/PCR	Not reported	24%
NCT04304248	NeoTPD01	Phase 2	IIIA-IIIB	Toripalimab + carboplatin/pemetrexed or Nab-paclitaxel	MPR	20/30 (66.7%)	15/30 (50%)
NCT03838159	NADIM II	Phase 2	IIIA-IIIB	Nivolumab + carboplatin/paclitaxel	PCR	Ongoing	Ongoing
NCT03871153	HCRN LUN17-321	Phase 2	III	Durvalumab + carboplatin/paclitaxel + radiation	PCR	Ongoing	Ongoing
NCT03456063	IMpower030	Phase 3	II–IIIB	Atezolizumab + platinum chemotherapy	MPR and EFS	Ongoing	Ongoing
NCT04061590		Phase 2	I–IIIA	Pembrolizumab + cisplatin/pemetrexed	% of patients with TIICs	Ongoing	Ongoing



Checkmate 816

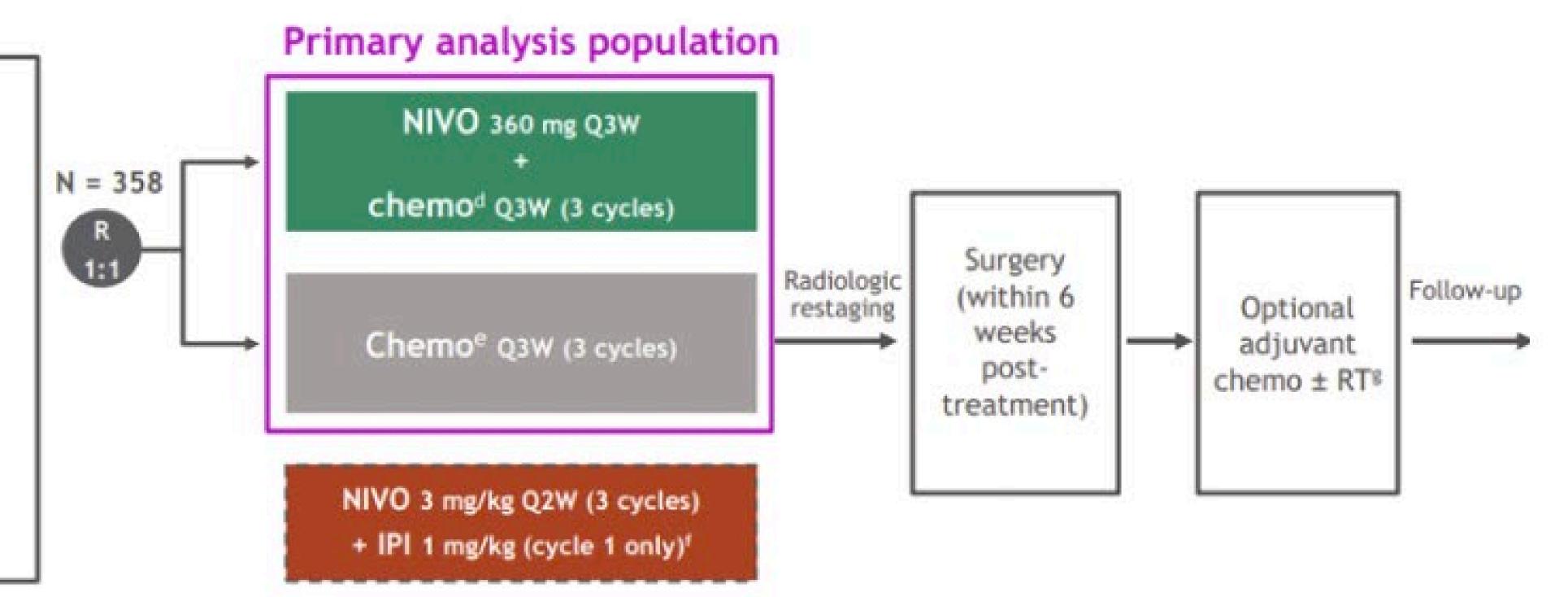
Key Eligibility Criteria

- Newly diagnosed, resectable, stage IB (≥ 4 cm)-IIIA NSCLC (per TNM 7th edition)
- ECOG performance status 0-1
- No known sensitizing EGFR mutations or ALK alterations

Stratified by

Stage (IB-II vs IIIA),

PD-L1^b (≥ 1% vs < 1%^c), and sex



Primary endpoints

- pCR by BIPR
- EFS by BICR

Secondary endpoints

- MPR by BIPR
- . 09
- · Time to death or distant metastases

Exploratory endpoints

- ORR by BICR
- Predictive biomarkers (PD-L1, TMB, ctDNA^h)

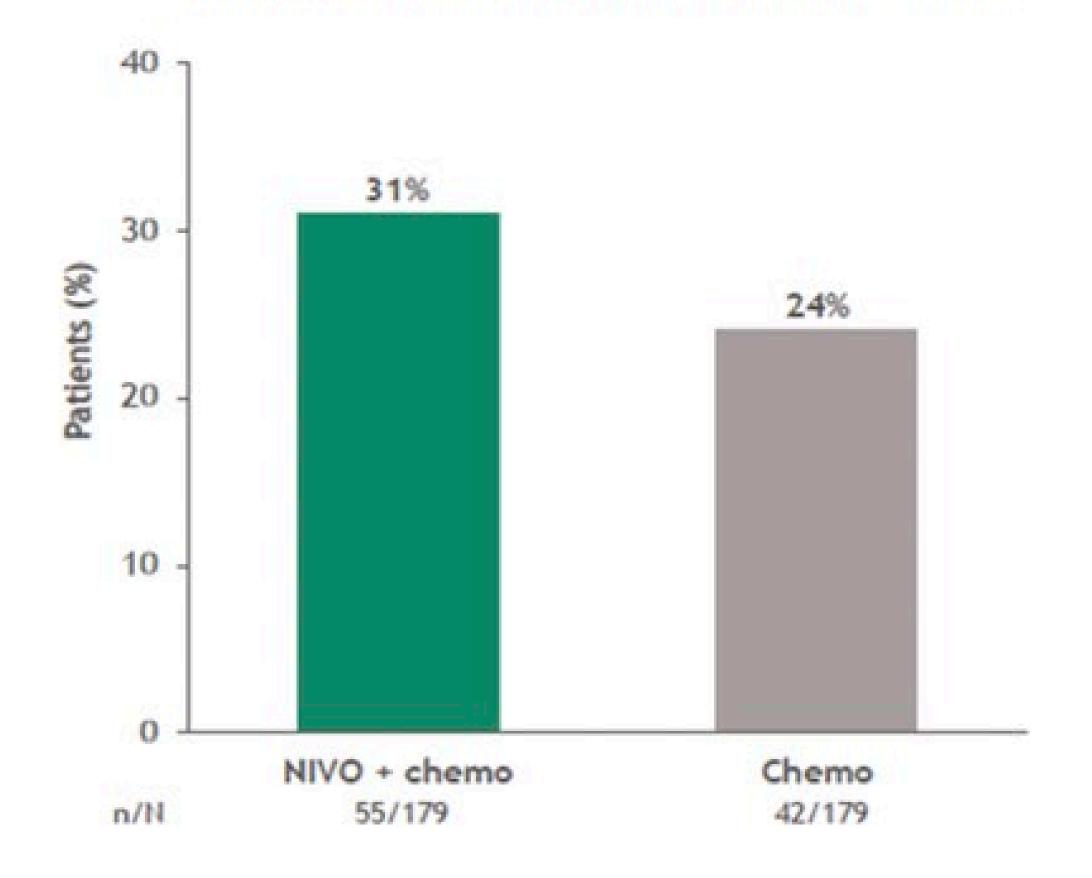


Response rate clinical and radiographic

Objective response rate

Patients, n (%)	NIVO + chemo (n = 179)	Chemo (n = 179)	
ORR ^a	96 (54)b	67 (37)b	
Best overall response			
Complete response	1 (1)	3 (2)	
Partial response	95 (53)	64 (36)	
Stable disease	70 (39)	88 (49)	
Progressive disease	8 (4)	11 (6)	
Not evaluable	1 (1)	1 (1)	
Not reported	4 (2)	12 (7)	

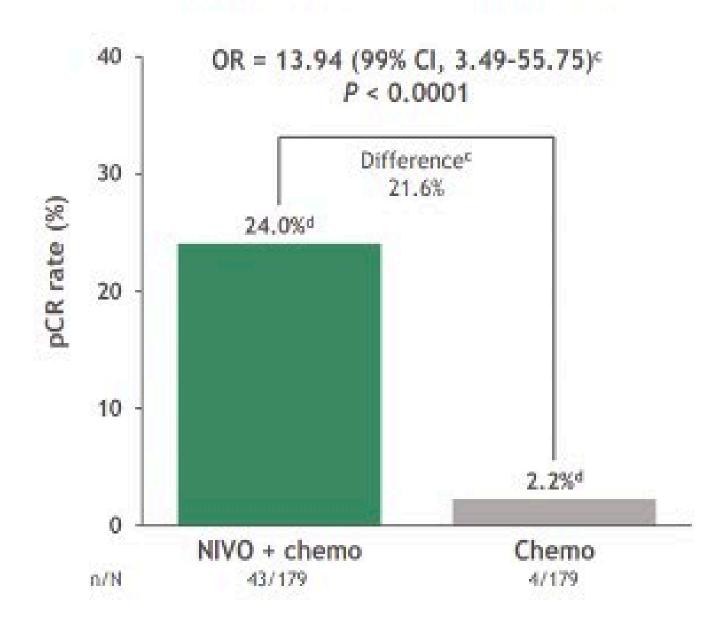
Patients with radiographic down-staging^c





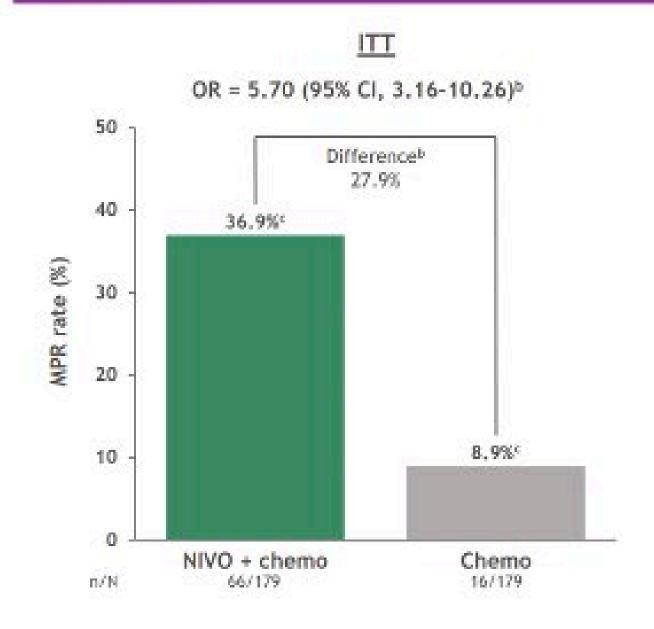
Primary endpoint: pCR rates

Primary endpoint: ITT (ypT0N0)b



CheckMate 816: pCR with neoadjuvant NIVO + chemo in resectable NSCLC

MPRa rate with neoadjuvant NIVO + chemo vs chemo





Conclusion

- CheckMate 816 showed a statistically significant improvement in the primary endpoint of pCR (OR = 13.94 [99% CI, 3.49-55.75]; P < 0.0001), and benefit was consistent across disease stages, histologies, TMB, and PD-L1 expression levels
 - MPR and ORR were also improved
 - The study continues to mature for the EFS primary endpoint
- The addition of neoadjuvant NIVO to chemo maintained a tolerable safety profile and did not impede the feasibility of surgery
- In an exploratory subset analysis, ctDNA clearance was more frequent with NIVO + chemo vs chemo and appeared to be associated with pCR
- CheckMate 816 is the first phase 3 study to show the benefit of neoadjuvant immunotherapy + chemo combination for resectable NSCLC, and NIVO in combination with chemo could represent a potential new neoadjuvant option for these patients



Impower 030:

Phase III study evaluating neoadjuvant treatment of resectable stage II-IIIB nonsmall cell lung cancer (NSCLC) with atezolizumab (atezo) + chemotherapy

- Resectable stage II, IIIA, or select IIIB (T3N2)
 NSCLC (per AJCC/UICC, 8th)
- Randomized to receive 4 cycles of neoadjuvant atezo + chemo (1200 mg Q3W, Arm A) or placebo + chemo (Arm B)
- Combined with investigator choice platinum doublet
- Patients in Arm A will receive adjuvant atezo treatment for 16 cycles or until disease recurrence or unacceptable toxicity
- Patients in Arm B will receive best supportive care

Can IO be combined with radiation

- •10 combined with radiation in Head and Neck cancer showed the following
 - 1. Radiation stimulates the immune response locally and increases immunemediated tumor kill besides direct cytotoxic effect
 - 2. Radiation also destroys immune cells and may reduce the effectiveness of immune stimulation
 - 3. Current models highly suggest that hypo-fractionated radiation may strike a good balance between both mechanisms and may be best suited for combination with IO based on animal models
 - 4. Challenge with modification of radiation fractions in lung cancer

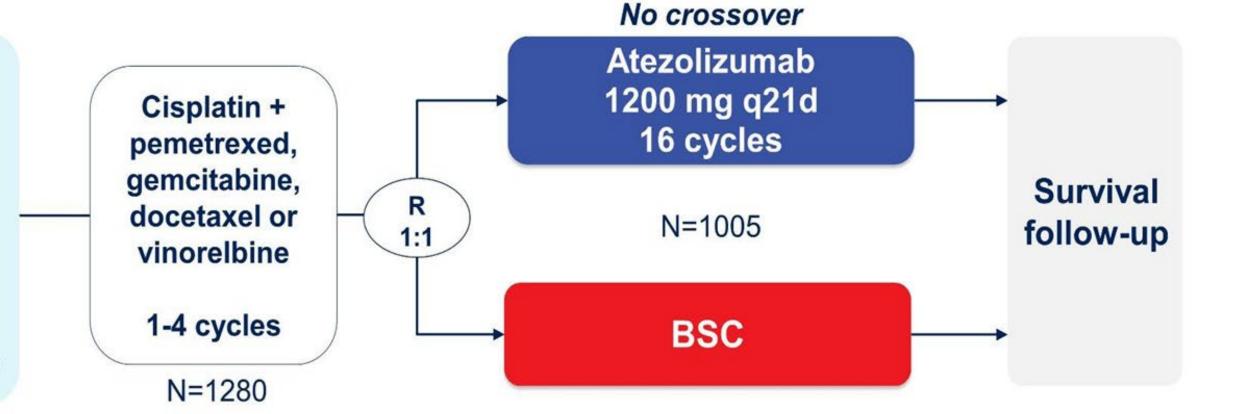




IMpower010: study design

Completely resected stage IB-IIIA NSCLC per UICC/AJCC v7

- Stage IB tumors ≥4 cm
- ECOG 0-1
- Lobectomy/pneumonectomy
- Tumor tissue for PD-L1 analysis



Stratification factors

- Male/female
- Stage (IB vs II vs IIIA)
- Histology
- PD-L1 tumor expression status^a: TC2/3 and any IC vs TC0/1 and IC2/3 vs TC0/1 and IC0/1

Primary endpoints

- Investigator-assessed DFS tested hierarchically:
 - PD-L1 TC ≥1% (per SP263)
 stage II-IIIA population
 - All-randomized stage II-IIIA population
 - ITT population (stage IB-IIIA)

Key secondary endpoints

- OS in ITT population
- DFS in PD-L1 TC ≥50% (per SP263)
 stage II-IIIA population
- 3-y and 5-y DFS in all 3 populations

Both arms included observation and regular scans for disease recurrence on the same schedule.

ECOG, Eastern Cooperative Oncology Group; IC, tumor-infiltrating immune cells; ITT, intent to treat; TC, tumor cells. ^a Per SP142 assay.

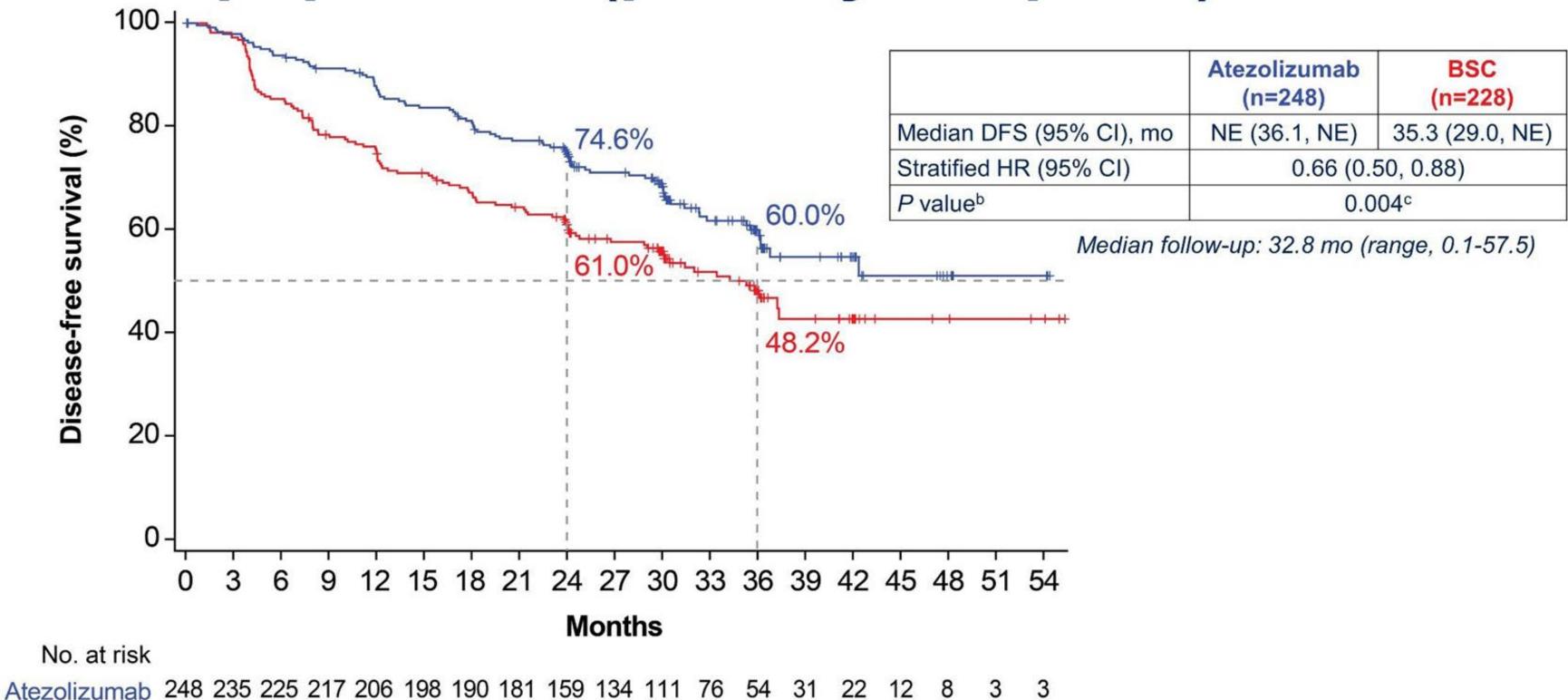
Dr. Heather A. Wakelee
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IMpower010: DFS in the PD-L1 TC ≥1%a stage II-IIIA population (primary endpoint)



Clinical cutoff: January 21, 2021. Cl, confidence interval; HR, hazard ratio; NE, not evaluable. a Per SP263 assay. b Stratified log-rank. c Crossed the significance boundary for DFS.

BSC 228 212 186 169 160 151 142 135 117 97 80 59

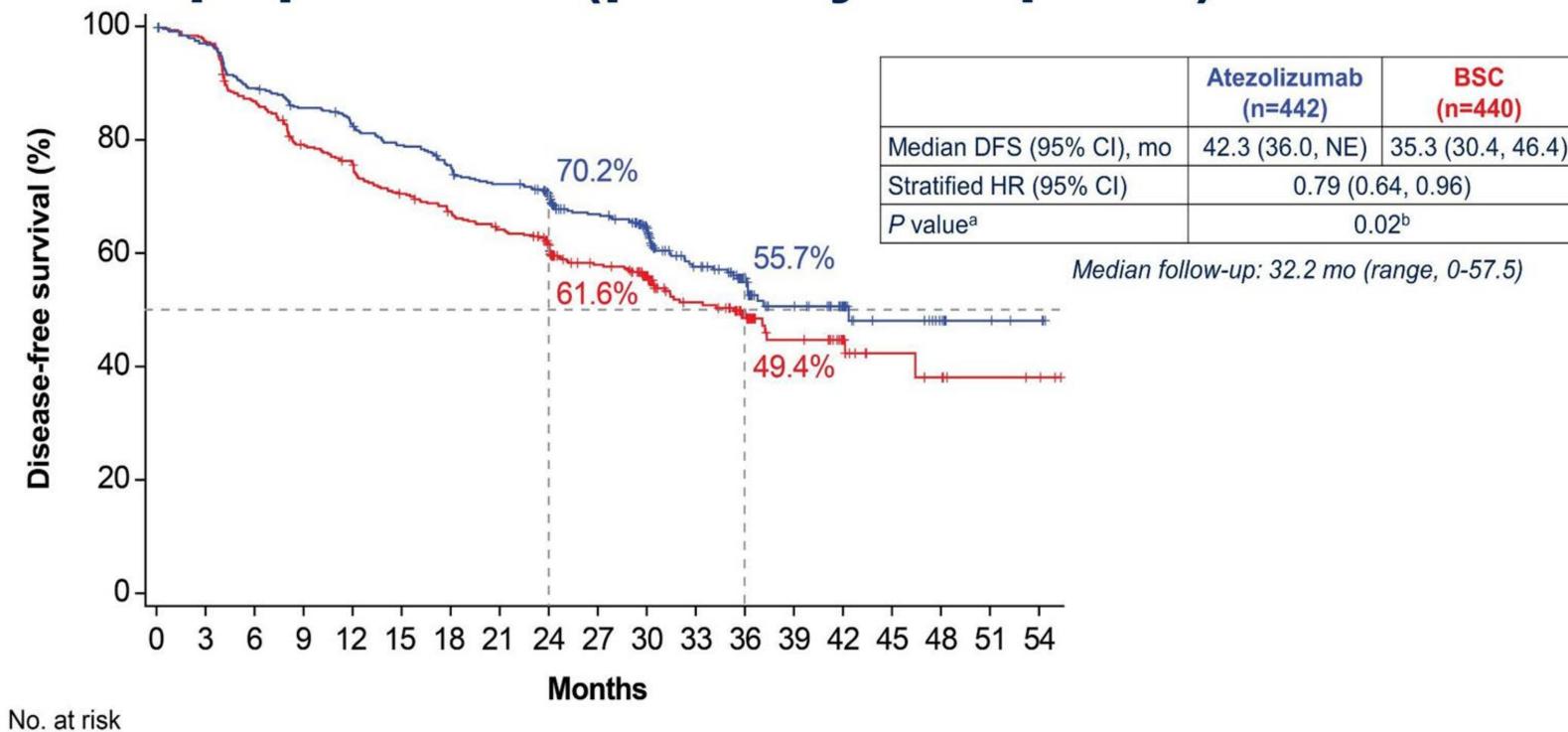
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IMpower010: DFS in the all-randomized stage II-IIIA population (primary endpoint)



Atezolizumab 442 418 384 367 352 337 319 305 269 225 185 120 84

BSC 440 412 366 331 314 292 277 263 230 182 146 102 71 35 22 10 8

Clinical cutoff: January 21, 2021. a Stratified log-rank. b Crossed the significance boundary for DFS.

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BSC

(n=440)

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IMpower010: conclusions

- IMpower010 is the first Phase III study of cancer immunotherapy to demonstrate DFS improvement in the adjuvant NSCLC setting after platinum-based chemotherapy
 - Adjuvant atezolizumab following complete resection and adjuvant chemotherapy showed statistically significant DFS benefit in the PD-L1 TC ≥1% stage II-IIIA (HR, 0.66; 95% CI: 0.50, 0.88) and all-randomized stage II-IIIA (HR, 0.79; 95% CI: 0.64, 0.96) populations, with enriched clinical benefit in patients whose tumors express PD-L1
- IMpower010 will continue for DFS and OS analyses in the ITT population
 - DFS in the ITT population, including patients with stage IB disease, did not cross the significance boundary at this interim DFS analysis
 - At this pre-planned interim DFS analysis, OS data were immature and not formally tested
- The safety profile of atezolizumab was consistent with prior experience of atezolizumab monotherapy across indications and lines of therapy
- Atezolizumab may be considered a practice-changing adjuvant treatment option for patients with PD-L1 TC ≥1% stage II-IIIA NSCLC





Adoptive T-cell therapy and other activated cellular therapy in the adjuvant setting

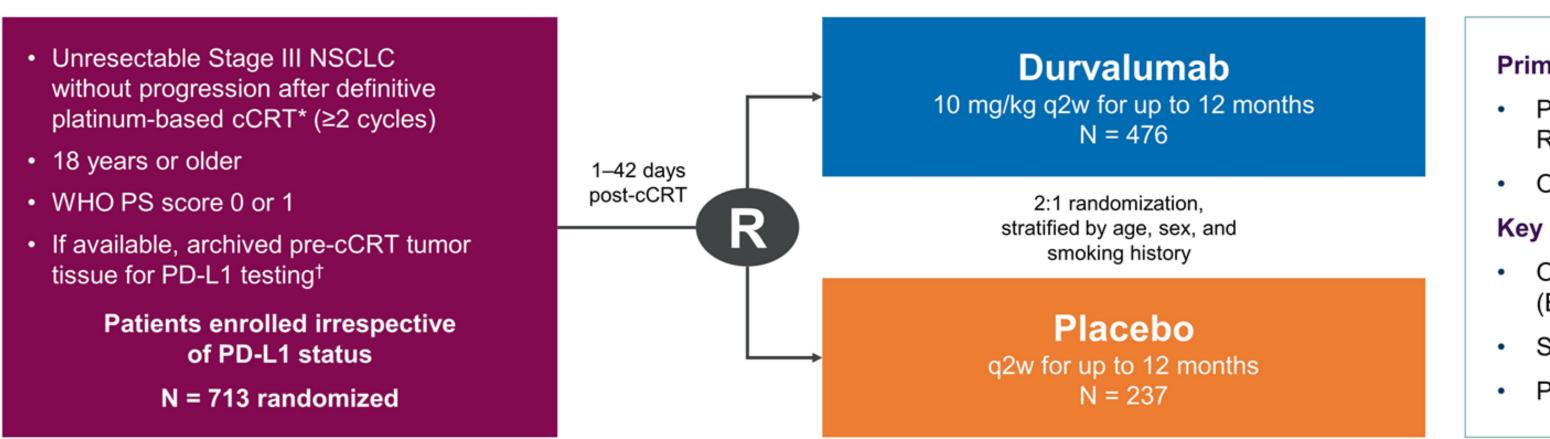
- •Data on adoptive T-cell therapy in metastatic NSCLC has established the feasibility and early benefit in early phase II trials.
- •Limited Phase II trials looking at this treatment in the adjuvant setting is currently also being investigated
- •Immunotherapy has ranged from:
 - Adoptive transfer of activated T cells for specific antigens (MAGE A3, NYE-ESO) using pheresed T cells- Results have been mixed ¹
 - Adoptive transfer of autologous activated killer T-cells and dendritic cells isolated from resected lymph nodes- early data positive, small sample size ²
- This approach continues to be investigated



IMMUNOTHERAPY IN LOCALLY ADVANCED NSCLC



PACIFIC: Phase 3, Randomized, Double-blind, Placebo-controlled, Multicenter, International Trial



Primary endpoints

- PFS (BICR) using RECIST v1.1[‡]
- OS

Key secondary endpoints

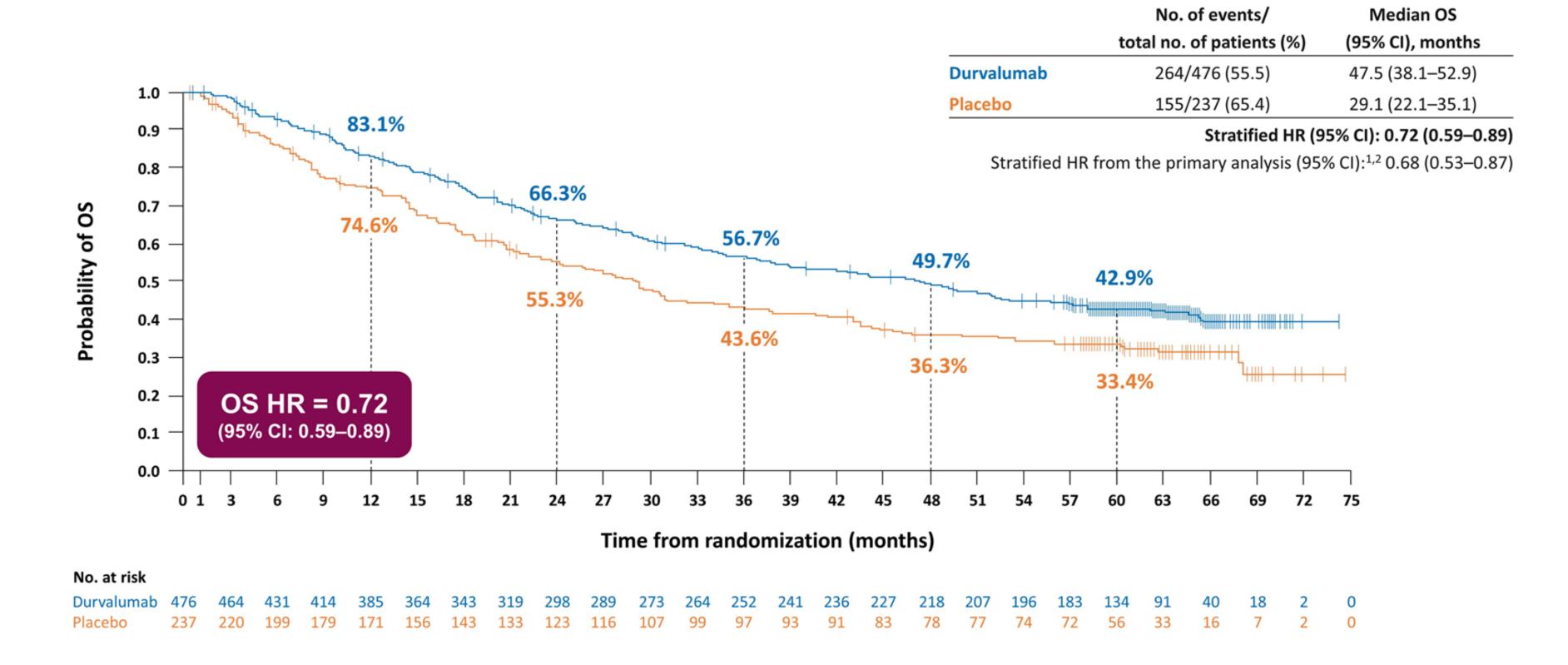
- ORR, DoR, and TTDM (BICR) using RECIST v1.1
- Safety
- Patient-reported outcomes
- Updated analyses of OS and PFS, assessed ~5 years after the last patient was randomized (data cutoff: 11 January 2021; exploratory, post-hoc analysis)
 - Treatment effects were estimated using stratified log-rank tests in the ITT population
 - Medians and yearly landmark rates were estimated using the Kaplan-Meier method

BICR, blinded independent central review; cCRT, concurrent chemoradiotherapy; DoR, duration of response; ITT, intent-to-treat; NSCLC, non-small-cell lung cancer; ORR, objective response rate; OS, overall survival; PD-L1, programmed cell death-ligand 1; PFS, progression-free survival; PS, performance status; q2w, every 2 weeks; RECIST, Response Evaluation Criteria in Solid Tumors; WHO, World Health Organization

NCTo2125461. *Radiation dosage typically 60–66 units of gray in 30–33 fractions. †Using the Ventana SP263 immunohistochemistry assay. ‡Defined as the time from randomization to the date of objective disease progression or death by any cause in the absence of progression

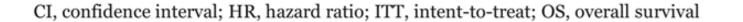


Updated OS (ITT)



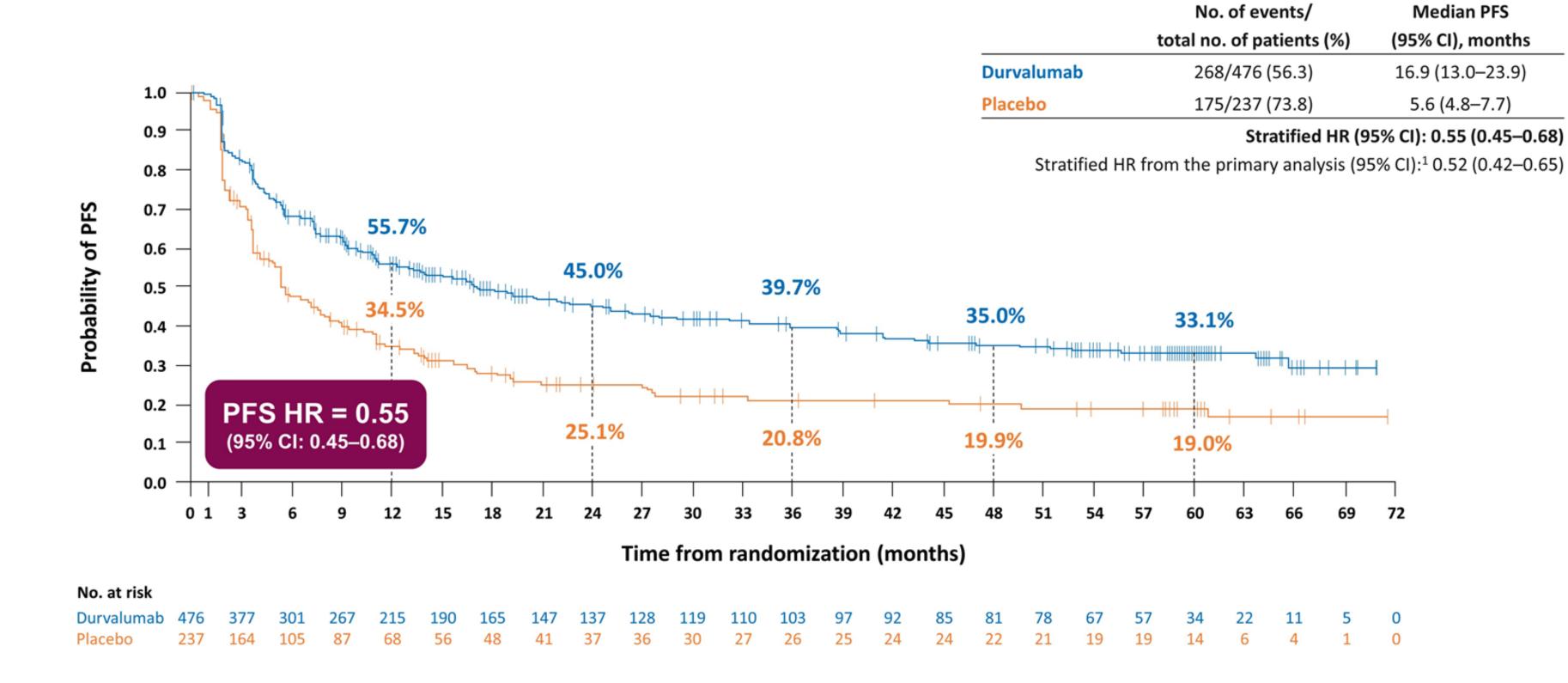
Data cutoff: 11 January 2021 (median follow-up: all patients, 34.2 months [range, 0.2–74.7]; censored patients, 61.6 months [range, 0.4–74.7]).

1. Antonia SJ, et al. New Engl J Med 2018;379:2342–50; 2. European Medicines Agency. Durvalumab (Imfinzi). Summary of product characteristics 2020. Available from: https://www.ema.europa.eu/en/documents/product-information/imfinzi-epar-product-information_en.pdf [Accessed April 2021]





Updated PFS (ITT; BICR)



BICR, blinded independent central review; CI, confidence interval; HR, hazard ratio; ITT, intent-to-treat; PFS, progression-free survival

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1. Antonia SJ, et al. New Engl J Med 2017;377:1919–29

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Targeted therapy in early stage disease



Neoadjuvant EGFR TKI: Early signals

- •A phase II single-arm study assessing the impact of 28 days of neoadjuvant gefitinib in stage I NSCLC
- •RR 50%
- More fibrosis
- Lower cell proliferation
- •Residual tumor cells concentrated in fibrous stroma with TILs.

J Clin Oncol. 2009 Dec 20; 27(36):6229-36.

Neoadjuvant EGFR TKI: Early signals

- Other trials showed:
- •Improved RR
- Downstaging
- Trend towards improved survival
- •However studies were small, unable to draw robust conclusions

J Hematol Oncol. 2015 May 17; 8():54 Oncologist. 2019 Feb; 24(2):157-e64. J Int Med Res. 2020 Apr; 48(4):300060519887275 •Neoadjuvant EGFR TKI trials

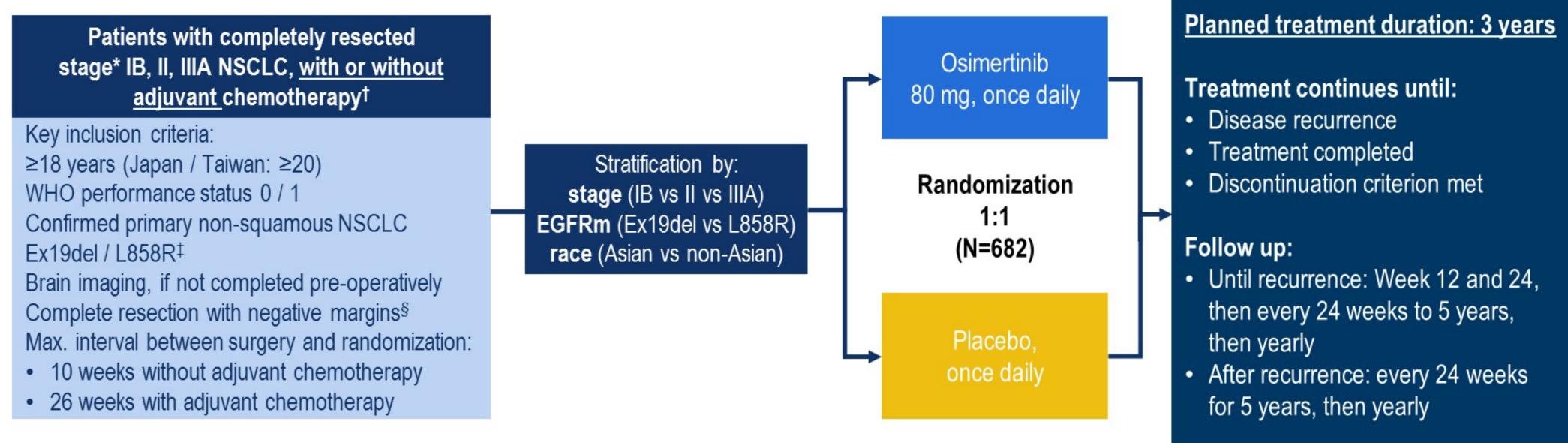
EMERGING	II	Neoadjuvant + adjuvant	IIIA EGFR- mutated NSCLCs	erlotinib for 6 weeks then 1 year post-op vs. cisplatin-gemcitabine	ORR	NCT01407822
NCT03203590	III	neoadjuvant	II-IIIA EGFR- mutated NSCLC	gefinitib for 8 weeks vs. carboplatin-vinorelbine	2 year DFS	NCT03203590
NeoADAURA	III	neoadjuvant	II-IIIA EGFR- mutated NSCLC	osimertinib +/- platinum- pemetrexed vs. platinum-pemetrexed	MPR	NCT04351555
NCT04302025	II	Neoadjuvant +/– adjuvant	IB-IIIB NSCLC with altered ALK, ROS1, NTRK or BRAF	8 weeks neoadjuvant +/- adjuvant with alectinib, entrectinib or vemurafenib+cobimetinib	MPR	NCT04302025
NCT03088930	II	neoadjuvant	IA-IIIA NSCLC with altered MET, ROS1 or ALK	crizotinib for 6 weeks	ORR	NCT03088930



Targeted therapy in the adjuvant setting



ADAURA Phase III double-blind study design



Endpoints

- Primary: DFS, by investigator assessment, in stage II/IIIA patients; designed for superiority under the assumed DFS HR of 0.70
- Secondary: DFS in the overall population DFS at 2, 3, 4, and 5 years, OS, safety, health-related quality of life
- Following IDMC recommendation, the study was unblinded early due to efficacy; here we report an unplanned interim analysis

PRESENTED BY: Roy S. Herbst

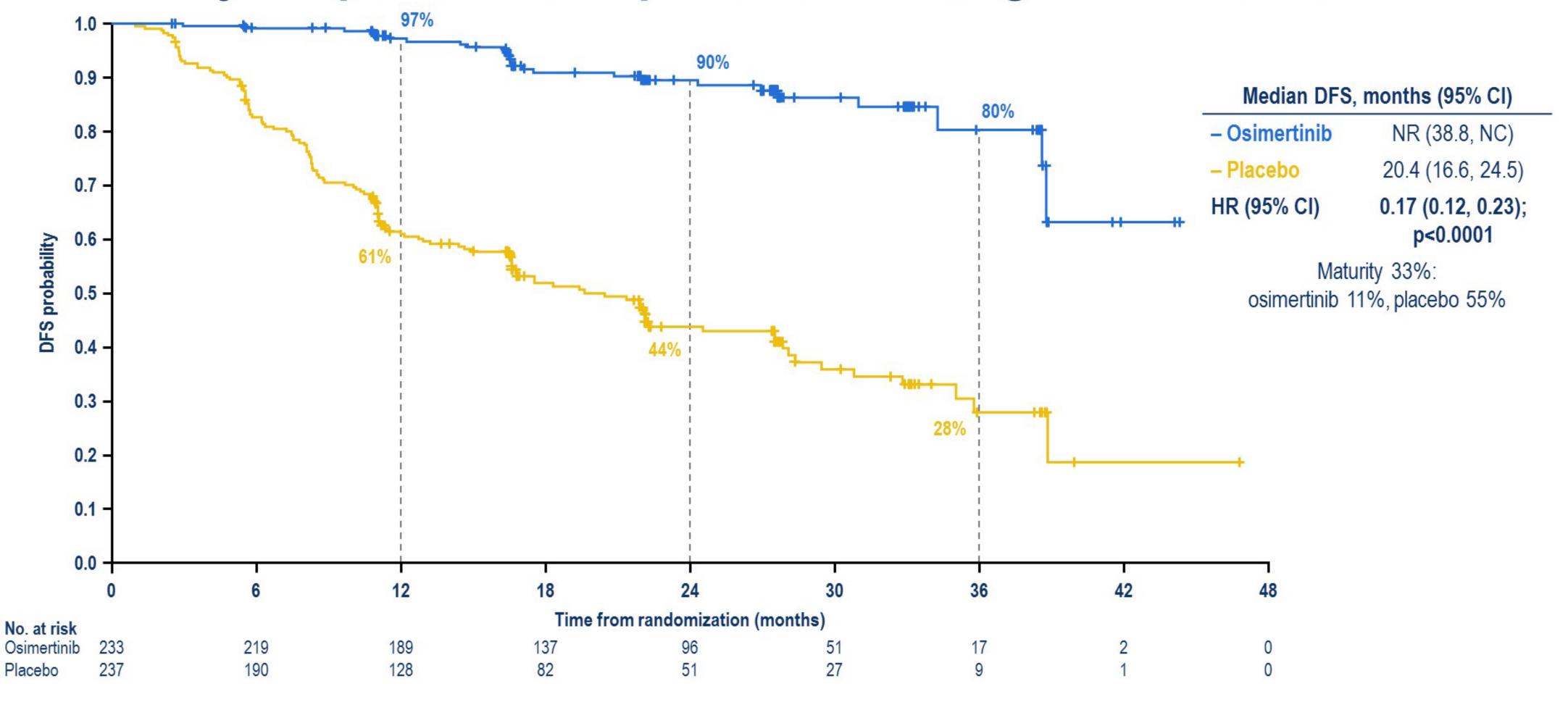
At the time of unblinding the study had completed enrollment and all patients were followed up for at least 1 year



Baseline characteristics in the overall population (stage IB/II/IIIA)

Osimertinib (n=339)	Placebo (n=343)	
32 / 68	28 / 72	
64 (30–86)	62 (31–82)	
32 / 68	25 / 75	
64 / 36	64 / 36	
64 / 36	64 / 36	
31 / 35 / 34	31 / 34 / 35	
95 / 5	96 / 4	
55 / 45	56 / 44	
55 / 45	56 / 44	
	(n=339) 32 / 68 64 (30–86) 32 / 68 64 / 36 64 / 36 31 / 35 / 34 95 / 5 55 / 45	

Primary endpoint: DFS in patients with stage II/IIIA disease



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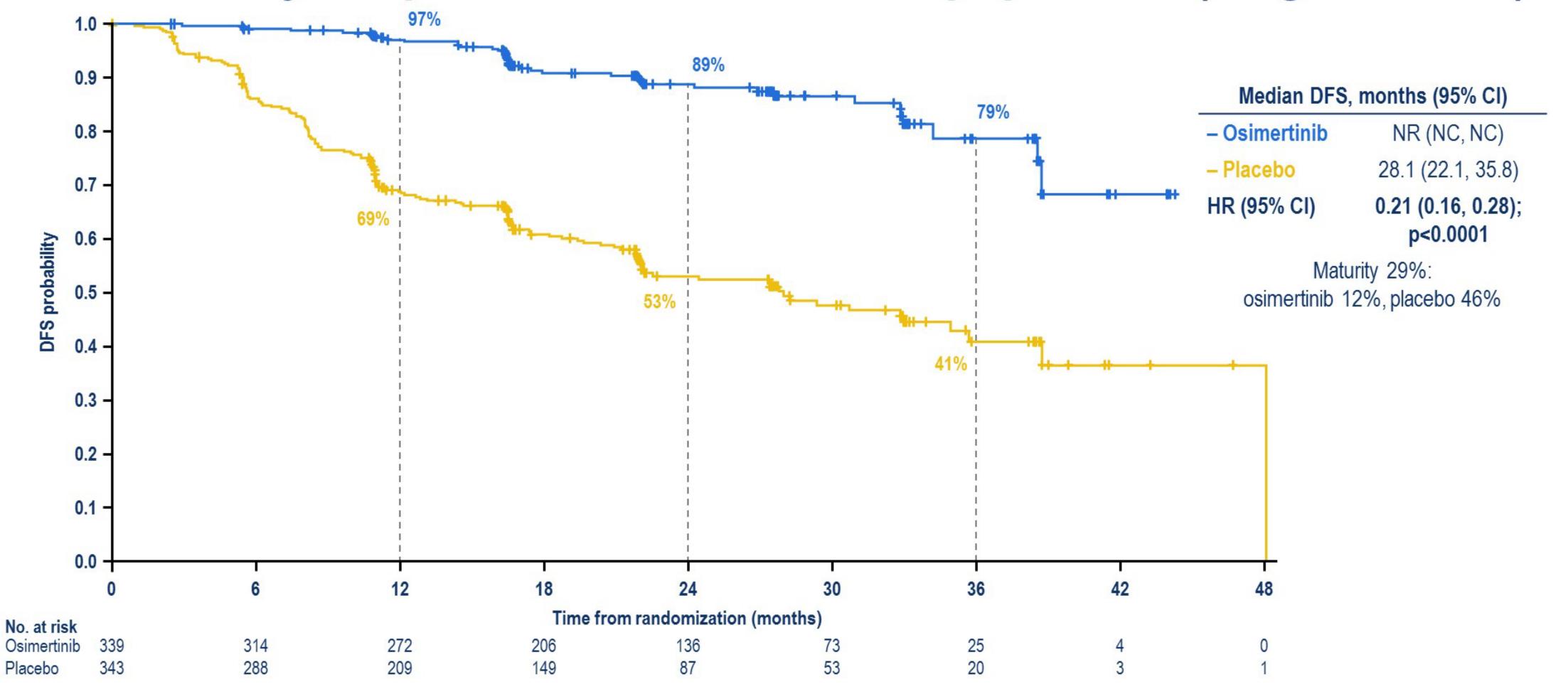
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ADAURA data cut-off. January 17, 2020.

Median follow-up: osimertinib 22.1, placebo: 15.0 months;

DFS by investigator assessment, Tick marks indicate censored data. NC, not calculable; NR, not reached

Secondary endpoint: DFS in the overall population (stage IB/II/IIIA)

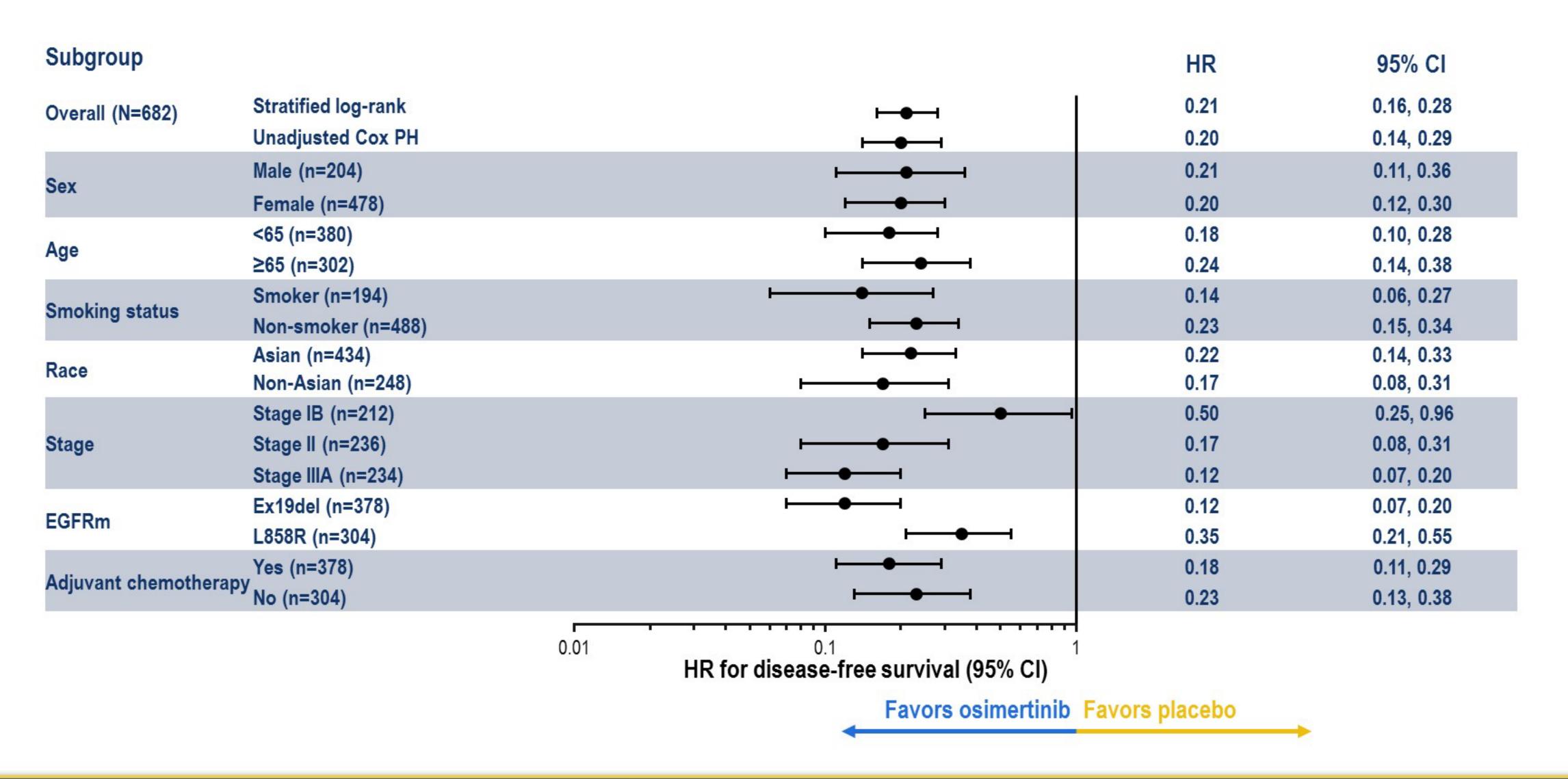


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DFS across subgroups in the overall population



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DFS by stage

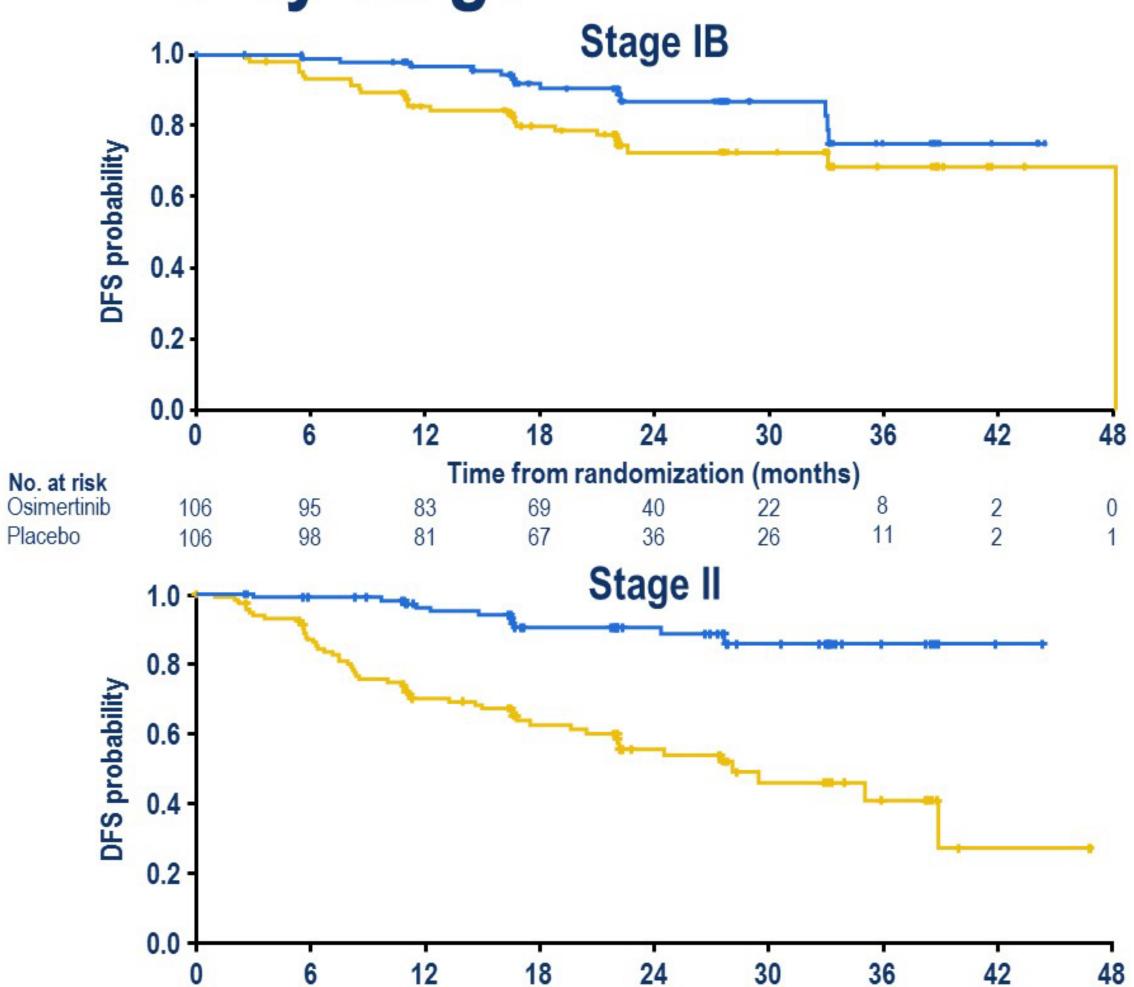
	Stage IB	Stage II	Stage IIIA
2 year DFS rate, % (95% CI)			
- Osimertinib	87 (77, 93)	91 (82, 95)	88 (79, 94)
- Placebo	73 (62, 81)	56 (45, 65)	32 (23, 42)
Overall HR (95% CI)	0.50 (0.25, 0.96)	0.17 (0.08, 0.31)	0.12 (0.07, 0.20)

- In the osimertinib arm, 2 year DFS rates were consistent across stages IB, II, and IIIA disease
- Maturity (overall population: stage IB / II / IIIA) 29%: osimertinib events 12%, placebo events 46%

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DFS by stage



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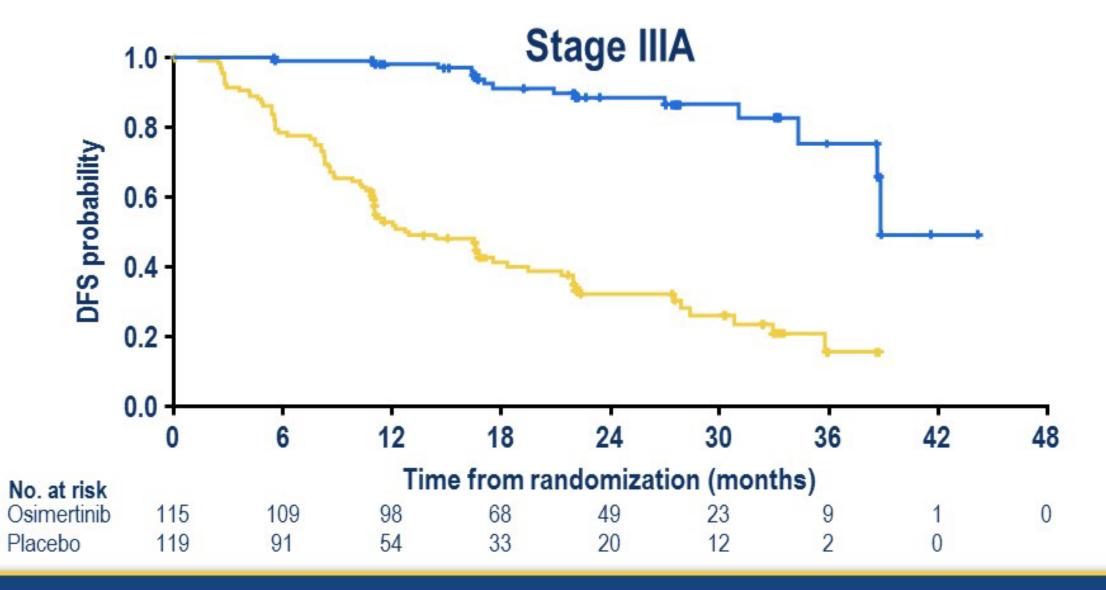
Time from randomization (months)

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	Stage IB	Stage II	Stage IIIA
2 year DFS rate, % (95% CI)			
Osimertinib	87 (77, 93)	91 (82, 95)	88 (79, 94)
- Placebo	73 (62, 81)	56 (45, 65)	32 (23, 42)
Overall HR (95% CI)	0.50 (0.25, 0.96)	0.17 (0.08, 0.31)	0.12 (0.07, 0.20)



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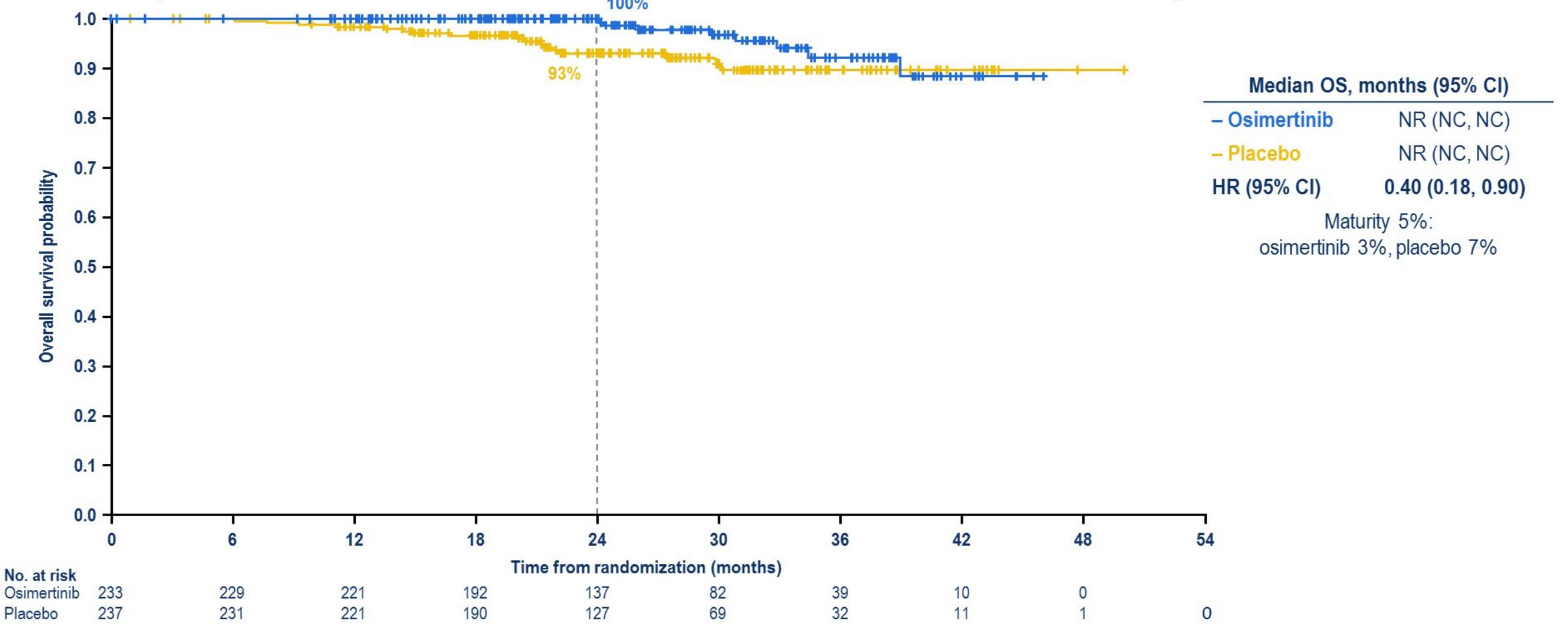
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No. at risk

Osimertinib

Placebo

Early snapshot: overall survival in patients with stage II/IIIA disease

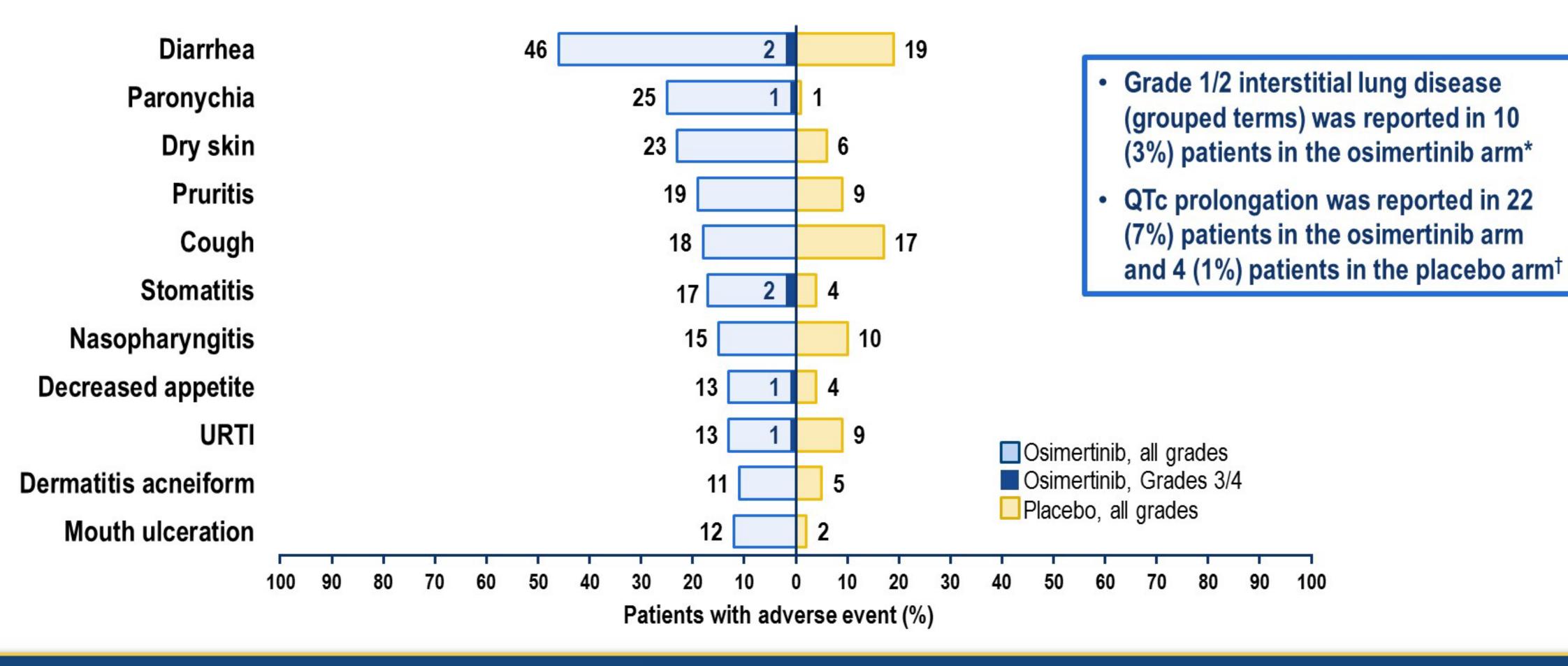


Safety summary

AE, any cause*, n (%)	Osimertinib (n=336)	Placebo (n=343)
Any AE	327 (97)	306 (89)
Any AE Grade ≥3	68 (20)	48 (14)
Any AE leading to death	0	1 (<1)
Any serious AE	54 (16)	44 (13)
Any AE leading to discontinuation	38 (11)	15 (4)
Any AE leading to dose reduction	25 (7)	2 (1)
AE, possibly causally related†, n (%)		
Any AE	303 (90)	190 (55)
Any AE Grade ≥3	32 (10)	9 (3)
Any AE leading to death	0	0
Any serious AE	9 (3)	2 (1)

All causality adverse events (≥10% of patients)

Median duration of exposure: osimertinib: 22.3 months (range 0 to 43), placebo: 18.4 months (range 0 to 48)



Conclusions

- Adjuvant osimertinib is the first targeted agent in a global trial to show a statistically significant and clinically meaningful improvement in DFS in patients with stage IB / II / IIIA EGFRm NSCLC
 - Overall, there was a 79% reduction in the risk of disease recurrence or death with osimertinib (DFS HR 0.21 [95% CI 0.16, 0.28]; p<0.0001)
 - Osimertinib vs placebo DFS rates at 2 years were 89% vs 53%, respectively
- A consistent improvement in DFS was seen regardless of whether patients received prior adjuvant chemotherapy
- The safety profile was consistent with the established safety profile of osimertinib, with mild EGFR-TKI class effects reported; median duration of exposure to osimertinib was 22 months

Adjuvant osimertinib will provide a highly effective, practice changing treatment for patients with stage IB / II / IIIA EGFRm NSCLC after complete tumor resection

Summary

- Immunotherapy continues to be an important modality in the treatment of NSCLC
- Neoadjuvant approach seems to be the most promising in early-stage resectable disease
- Adjuvant IO has become the standard of care
- Targeted therapy remains standard of care in the adjuvant setting
- Neoadjuvant approaches remain experimental