

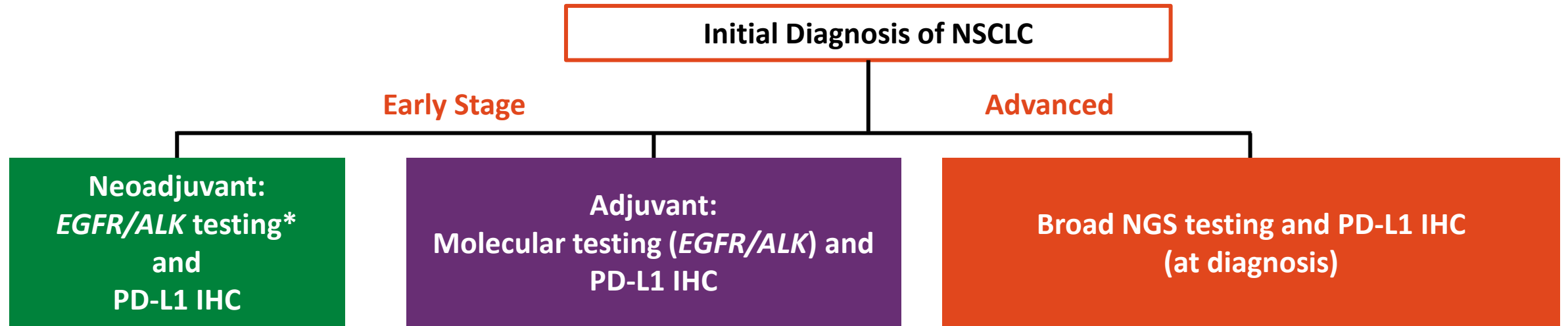
Continued Evolution of Immunotherapy-Based Treatment in NSCLC: Multidisciplinary Perspectives for Clinical Practice

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- I have no financial disclosures regarding this presentation.

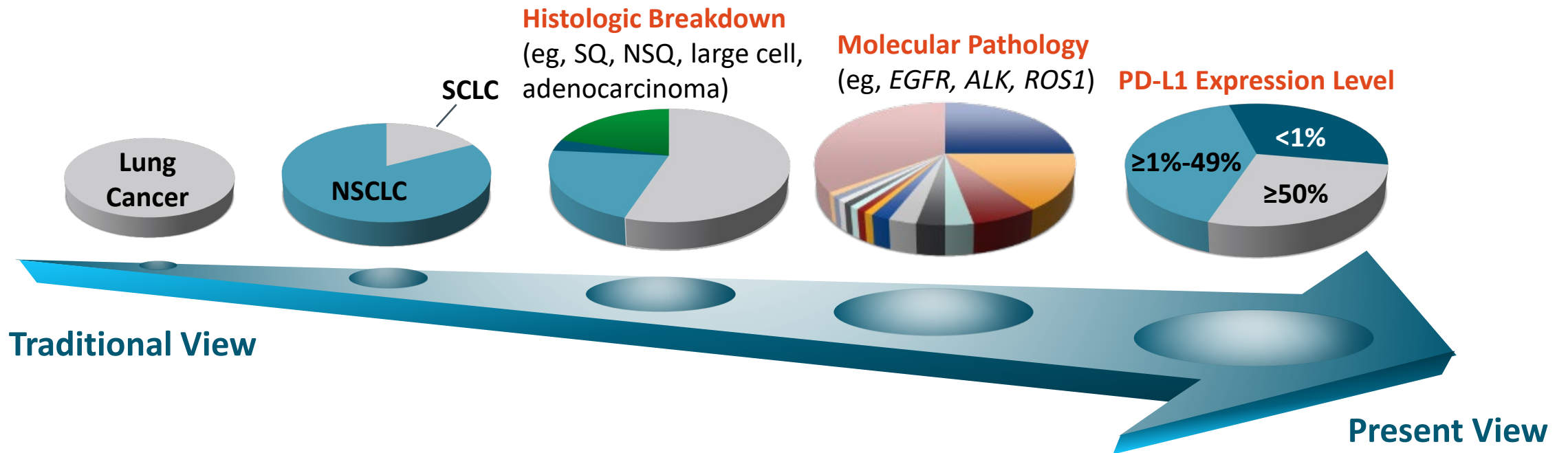
Molecular and PD-L1 Testing at Initial Diagnosis to Guide Treatment in NSCLC



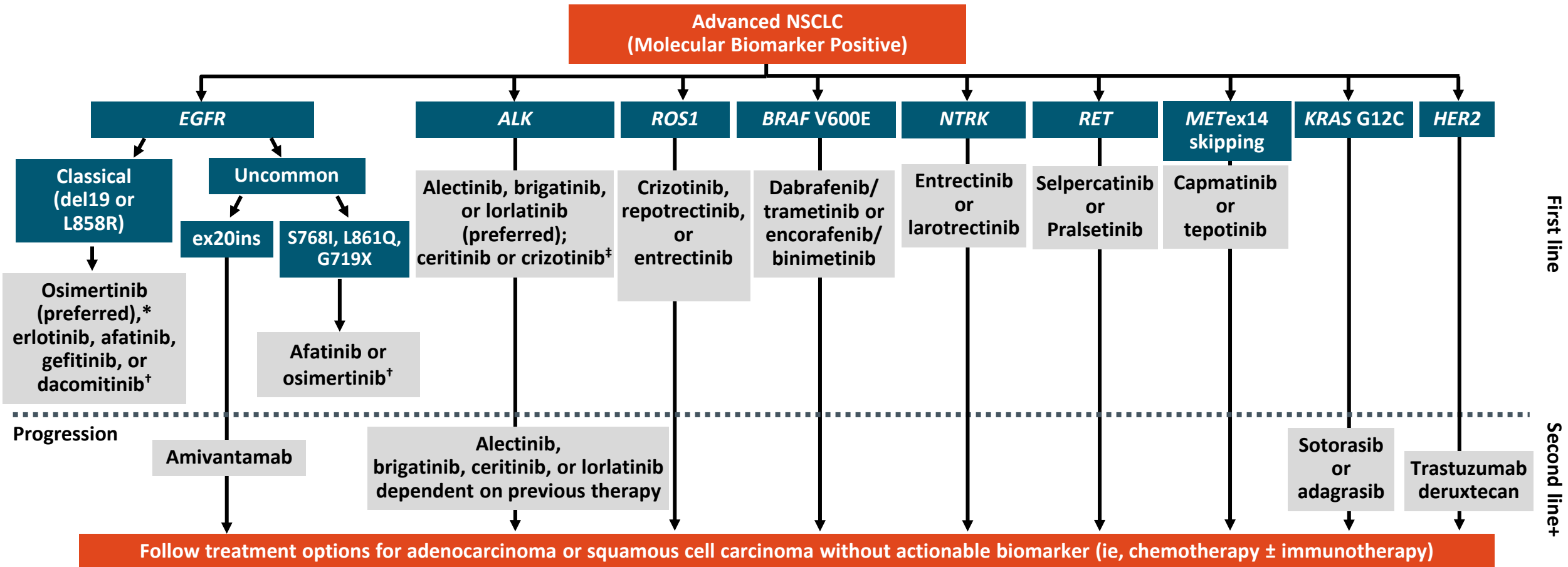
*NSQ or young, never-smoker SQ

- Test for PD-L1 expression required for all advanced NSCLC
- Broad molecular testing for all cases of advanced **nonsquamous** NSCLC should include *EGFR*, *ALK*, *ROS1*, *BRAF V600E*, *NTRK*, *RET*, *MET*ex14 skipping, *KRAS G12C*, and *HER2* mutation
 - For squamous NSCLC, consider testing in young, never/light smokers, and female patients, or if biopsy specimen is of mixed histology
- Biomarker results should be obtained before starting checkpoint inhibitor therapy

Evolution of Therapy in Lung Cancer



Targeted Therapy in Advanced NSCLC With Actionable Driver Mutations (2024)



*Osimertinib also approved as second-line therapy for *EGFR* T790M–positive disease after an earlier-generation *EGFR* TKI. [†]Afatinib, dacomitinib, erlotinib (alone or in combination with ramucirumab or bevacizumab), gefitinib, and osimertinib approved for *EGFR* exon19del, exon 21 L858R; afatinib for *EGFR* G719X, S768I, L861Q. Osimertinib also a preferred option for *EGFR* G719X, S768I, L861Q per NCCN guidelines. [‡]Or as second-line after CT.

Adagrasib PI. Afatinib PI. Alectinib PI. Amivantamab PI. Capmatinib PI. Ceritinib PI. Crizotinib PI. Dabrafenib PI. Dacomitinib PI. Entrectinib PI. Erlotinib PI. Gefitinib PI. Lorlatinib PI. Larotrectinib PI. Osimertinib PI. Pralsetinib PI. Selpercatinib PI. Sotorasib PI. Trametinib PI. Trastuzumab deruxtecan PI. NCCN. Clinical practice guidelines in oncology: NSCLC. v.3.2024.

Slide credit: clinicaloptions.com

Indications for ICI in Advanced NSCLC

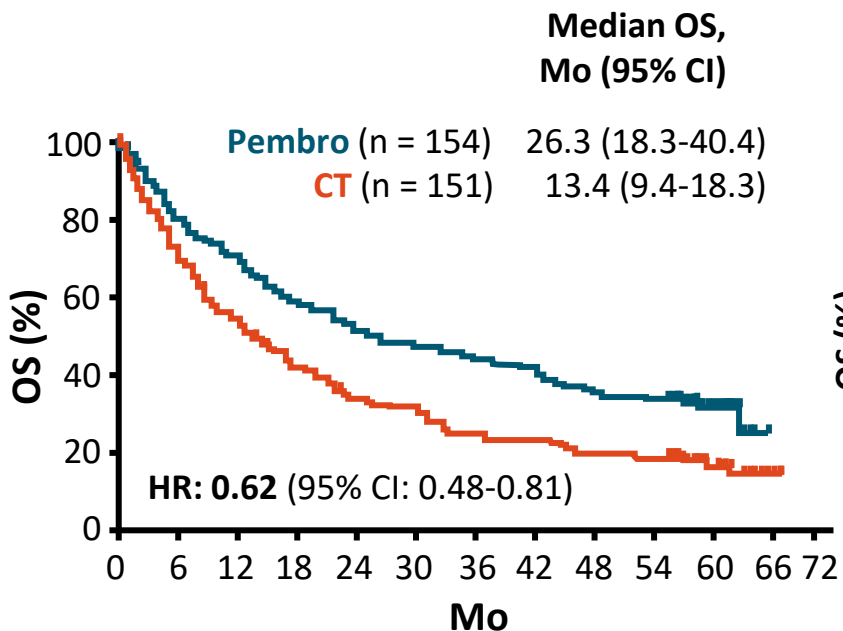
	ICI Regimen	Indication (FDA Approval)
Monotherapy	Atezolizumab	1L metastatic NSCLC, no <i>EGFR</i> or <i>ALK</i> aberrations (PD-L1 \geq 50% or IC \geq 10%)
	Cemiplimab	1L for locally advanced or metastatic NSCLC, no <i>EGFR</i> , <i>ALK</i> , or <i>ROS1</i> aberrations (PD-L1 \geq 50%)
	Pembrolizumab*	1L for metastatic [†] NSCLC (PD-L1 \geq 1%), no <i>EGFR</i> or <i>ALK</i> aberrations or 2L for metastatic NSCLC (PD-L1 \geq 1%), no <i>EGFR</i> or <i>ALK</i> aberrations after platinum CT

*Single-agent pembrolizumab approved for \geq 1% PD-L1 but not broadly recommended by experts; guideline recommended for PD-L1 1%-49% if poor PS or contraindications to combining with CT.

[†]Also indicated as 1L treatment for patients with stage III NSCLC who are not candidates for surgical resection or definitive chemoradiation.

FDA-Approved ICI Monotherapies for PD-L1–High Advanced or Metastatic NSCLC

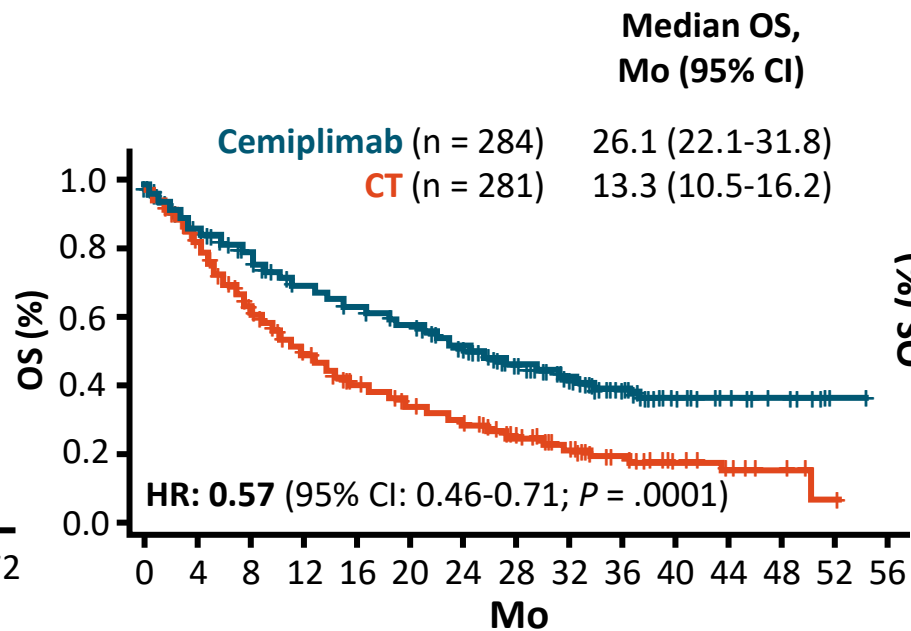
KEYNOTE-024 (N = 305)¹:
Pembro vs CT (PD-L1 TPS ≥50%*)



*PD-L1 IHC by 22C3.

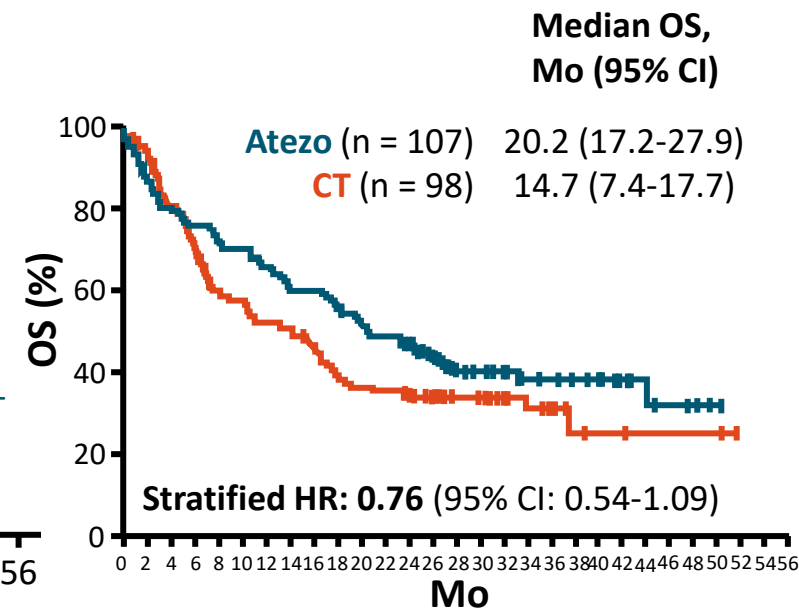
Pembrolizumab's approval as a single-agent treatment for metastatic NSCLC was expanded to tumors with PD-L1 TPS ≥1% based on the KEYNOTE-042 trial.²

EMPOWER-Lung 1 (N = 565[†])³:
Cemiplimab vs CT (PD-L1 TPS ≥50%*)



[†]712 patients enrolled in overall ITT population.

IMpower110 (N = 205[‡])⁴:
Atezo vs CT (PD-L1 ≥50% [TC] or ≥10% [IC])



[‡]572 patients with PD-L1 ≥1% on TC or IC (per SP142) enrolled in overall population.

Indications for ICIs in Advanced NSCLC

	ICI Regimen	Indication (FDA Approval)
Monotherapy	Atezolizumab	1L metastatic NSCLC, no <i>EGFR</i> or <i>ALK</i> aberrations (PD-L1 \geq 50% or IC \geq 10%)
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	Pembrolizumab*	1L for metastatic [†] NSCLC (PD-L1 \geq 1%), no <i>EGFR</i> or <i>ALK</i> aberrations or 2L for metastatic NSCLC (PD-L1 \geq 1%), no <i>EGFR</i> or <i>ALK</i> aberrations after platinum CT
Combination Regimens	Nonsquamous	
	Atezolizumab + bevacizumab + carboplatin + paclitaxel	1L for metastatic nonsquamous NSCLC, no <i>EGFR</i> or <i>ALK</i> aberrations
	Atezolizumab + carboplatin + nab-paclitaxel	1L for metastatic nonsquamous NSCLC, no <i>EGFR</i> or <i>ALK</i> aberrations
	Pembrolizumab + pemetrexed + platinum CT	1L for metastatic nonsquamous NSCLC, no <i>EGFR</i> or <i>ALK</i> aberrations
	Squamous	
	Pembrolizumab + carboplatin + (nab-)paclitaxel	1L for metastatic squamous NSCLC
	Any histology	
	Cemiplimab + platinum-based CT	1L for locally advanced or metastatic NSCLC, no <i>EGFR</i> , <i>ALK</i> , or <i>ROS1</i> aberrations
	Durvalumab + tremelimumab + platinum-based CT	Metastatic NSCLC, no sensitizing <i>EGFR</i> or <i>ALK</i> aberrations
	Nivolumab + Ipilimumab	1L for metastatic NSCLC (PD-L1 \geq 1%), no <i>EGFR</i> or <i>ALK</i> aberrations
Nivolumab[†] + ipilimumab + platinum-doublet CT	1L for metastatic/recurrent NSCLC, no <i>EGFR</i> or <i>ALK</i> aberrations	

*Single-agent pembrolizumab approved for \geq 1% PD-L1 but not broadly recommended by experts; guideline recommended for PD-L1 1%-49% if poor PS or contraindications to combining with CT. [†]Also indicated as 1L treatment for patients with stage III NSCLC who are not candidates for surgical resection or definitive chemoradiation.

Atezolizumab PI. Cemiplimab PI. Durvalumab PI. Nivolumab PI. Pembrolizumab PI.

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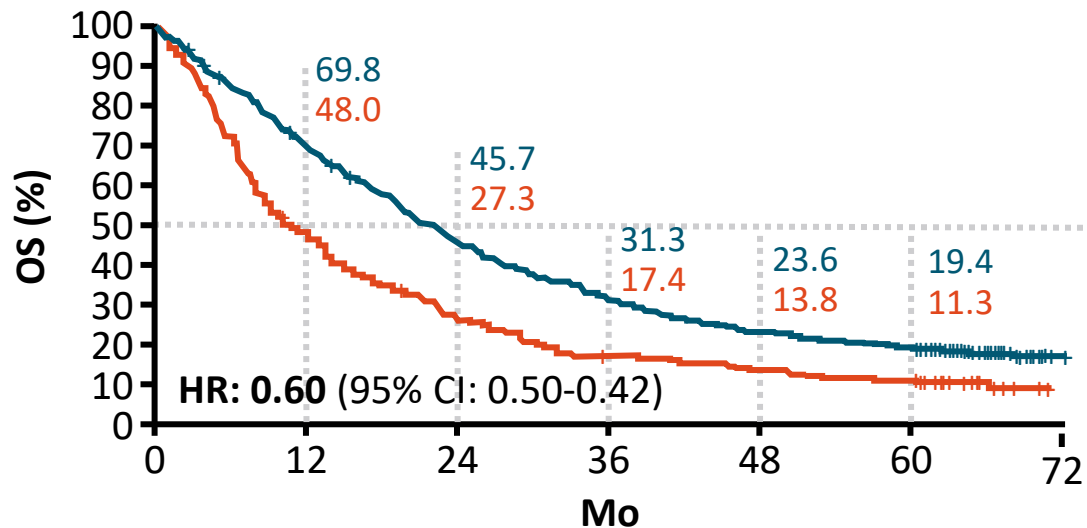
First-line Pembrolizumab Plus Chemotherapy in Advanced NSCLC

KEYNOTE-189:

Pembrolizumab vs CT in **Nonsquamous** NSCLC

OS in ITT (N = 616)

Treatment Group	Median OS, mo (95% CI)
Pembro + CT	19.4 (15.7-23.4)
Placebo + CT	11.3 (7.4-16.1)

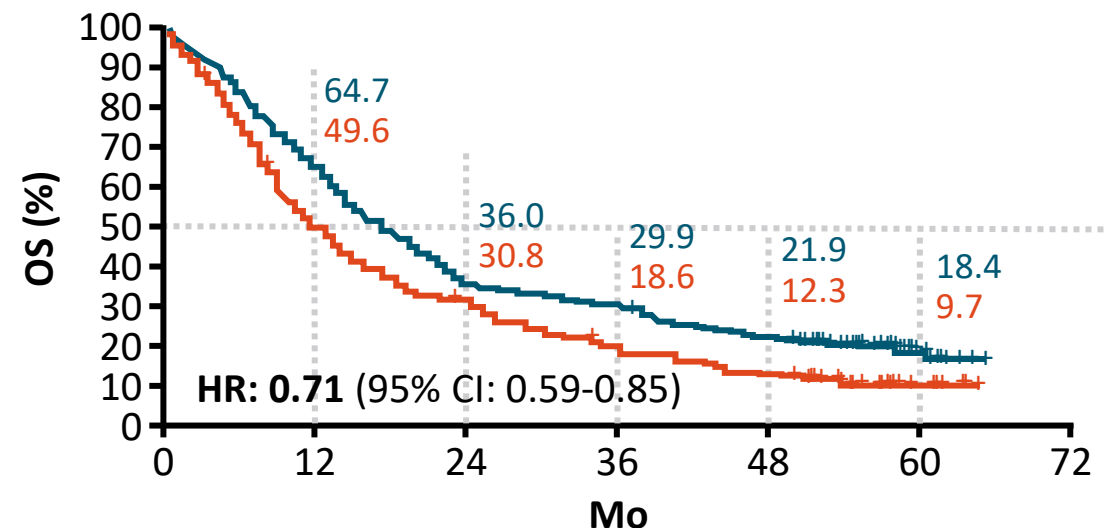


KEYNOTE-407:

Pembrolizumab vs CT in **Squamous** NSCLC

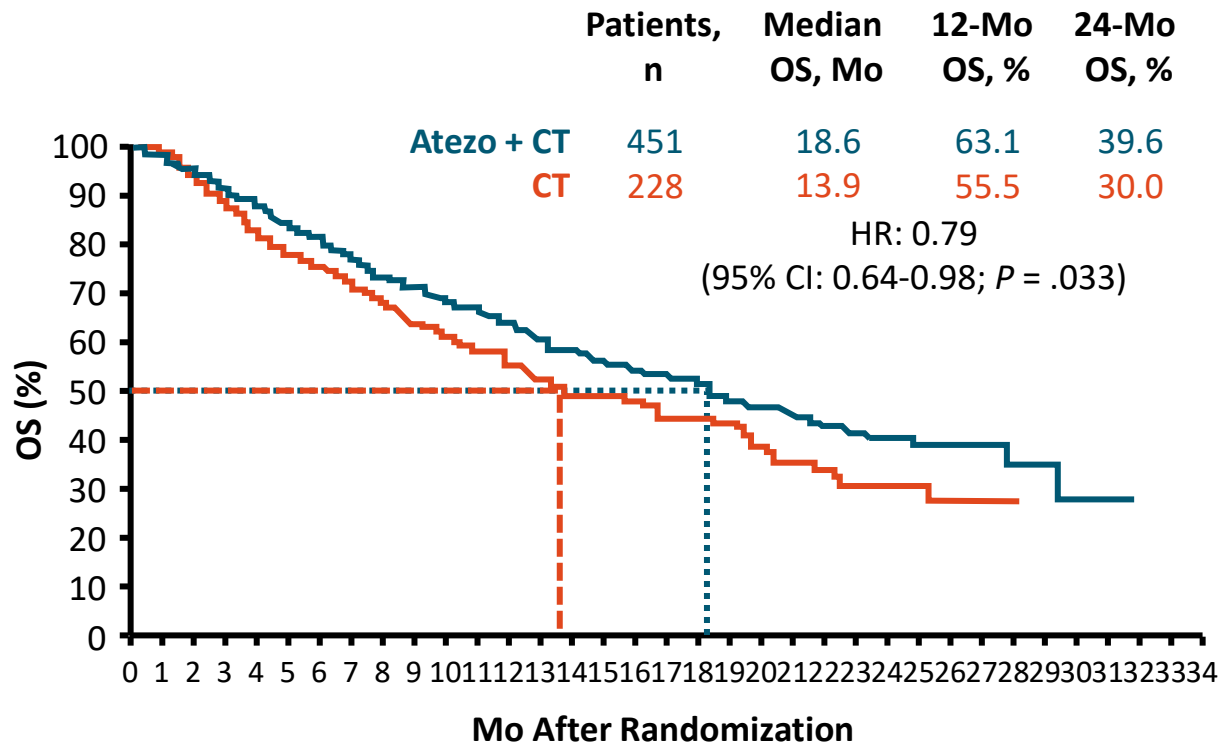
OS in ITT (N = 563)

Treatment Group	Median OS, mo (95% CI)
Pembro + CT	18.4 (13.8-23.4)
Placebo + CT	9.7 (6.5-13.7)

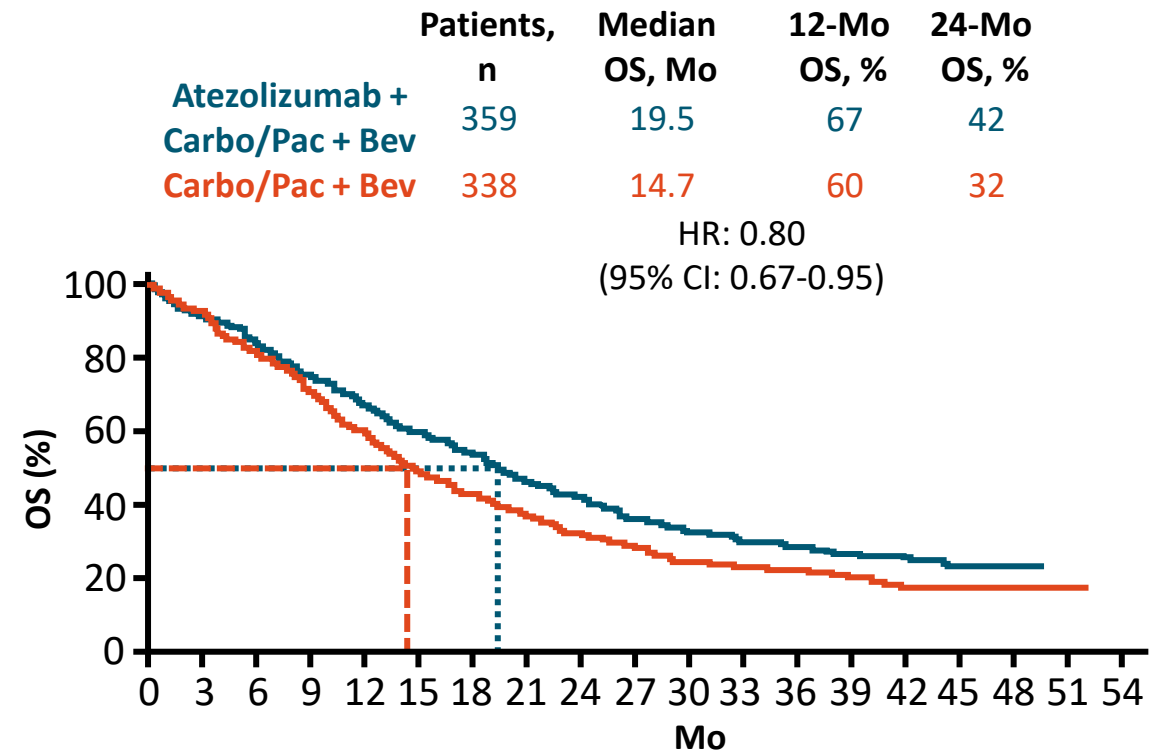


First-line Atezolizumab Plus Chemotherapy in Nonsquamous Advanced NSCLC

IMpower130: Atezolizumab ± Carbo/*nab*-Paclitaxel vs CT
OS in ITT WT* (N = 723)

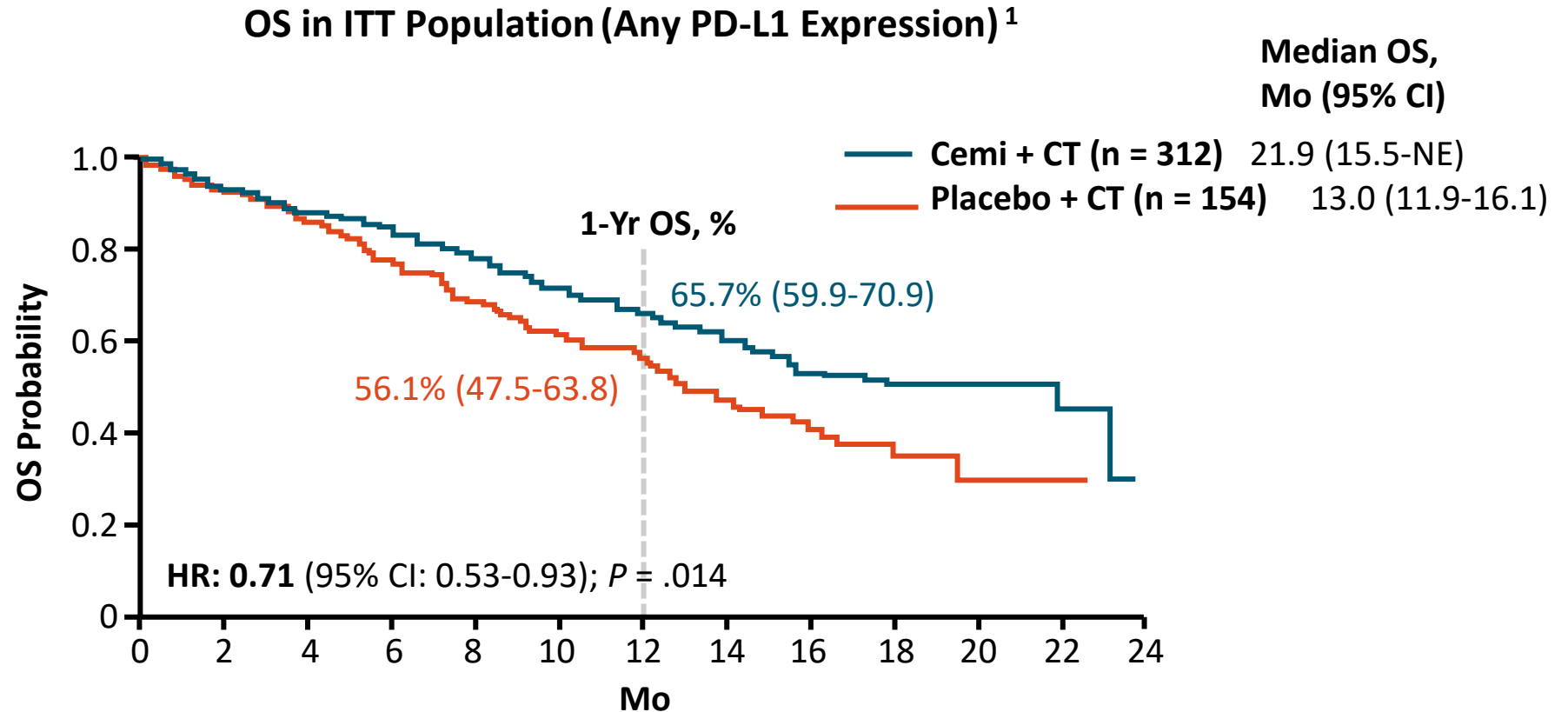


IMpower150: Atezolizumab + Carbo/Pac + Bev vs Carbo/Pac + Bev
OS in ITT WT* (N = 697)



*ITT WT: patients without *EGFR* or *ALK* alterations.

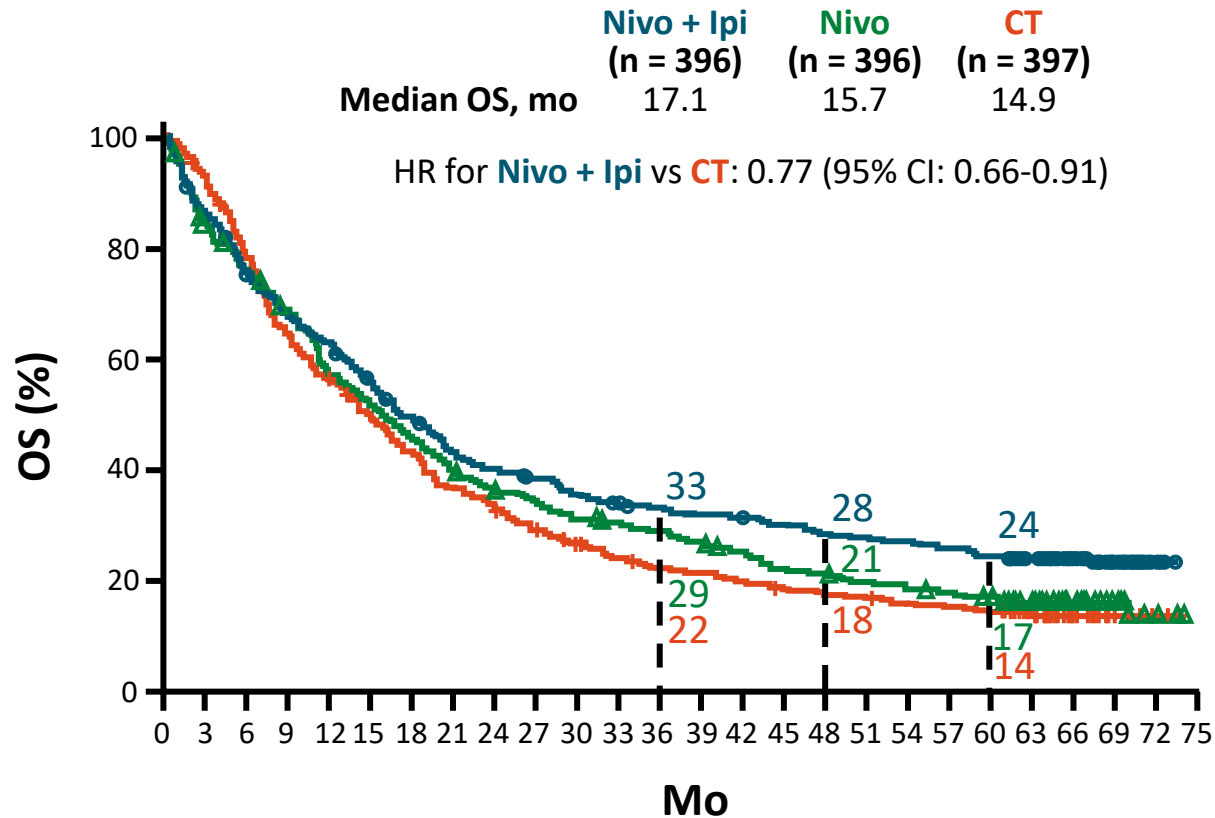
EMPOWER-Lung 3: First-line Cemiplimab + Platinum CT vs Placebo + CT in Advanced NSCLC of Any Histology



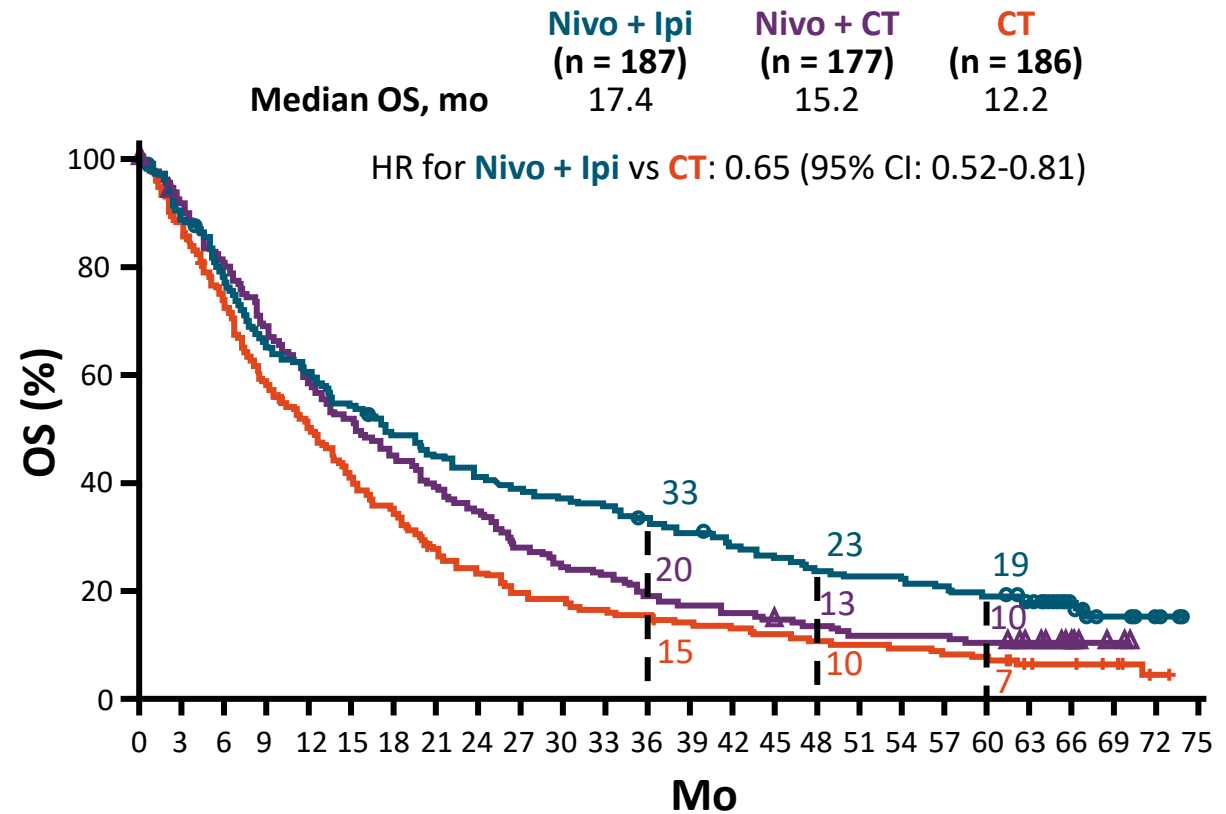
- Although the study was not powered to determine efficacy within subgroups, there were median OS improvements in the cemiplimab arm vs CT in both squamous (21.9 mo vs 13.8 mo) and nonsquamous (15.8 mo vs 13.0 mo) histology¹
- In PD-L1 $\geq 1\%$ population, median OS was 23.5 mo vs 12.1 mo (HR: 0.52 (95% CI: 0.38-0.69); P < .0001)²

CheckMate 227: First-line Nivolumab + Ipilimumab vs Chemotherapy for Advanced NSCLC

5-Yr OS: PD-L1 $\geq 1\%$



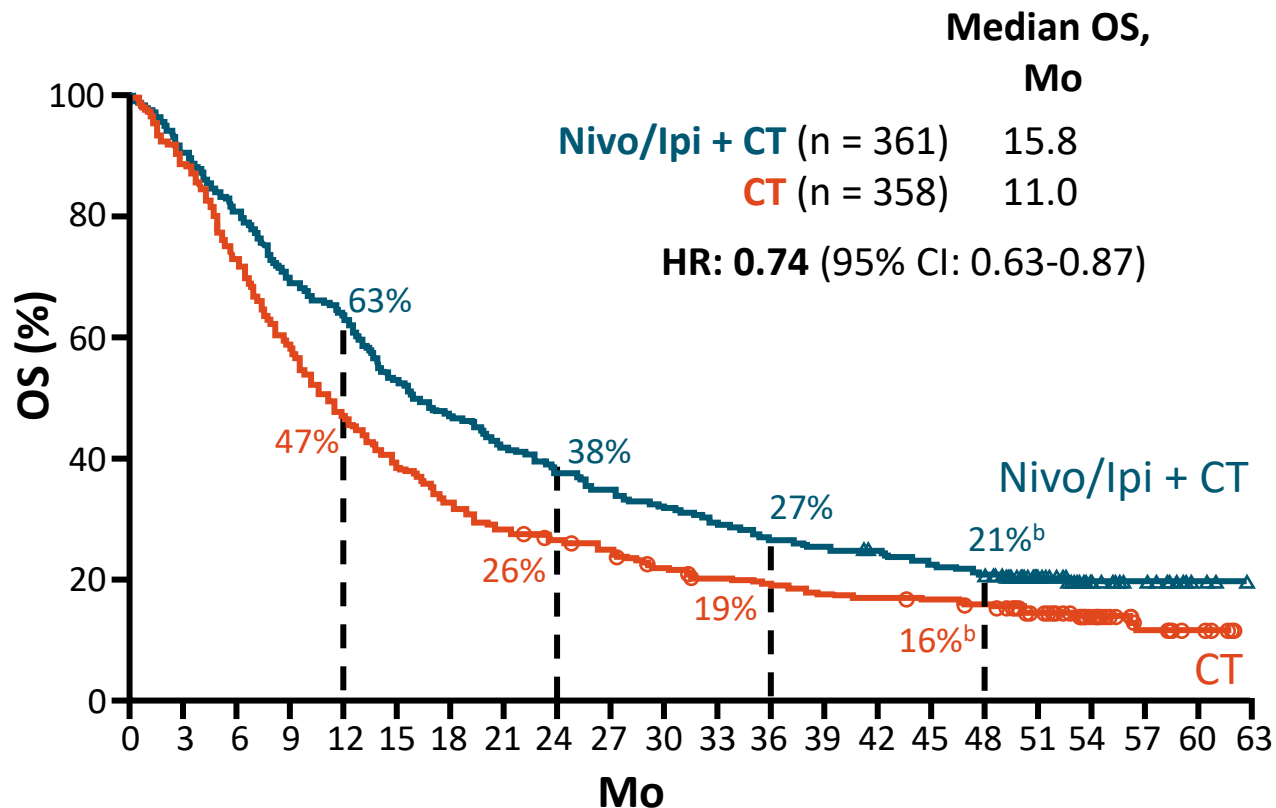
5-Yr OS: PD-L1 $< 1\%*$



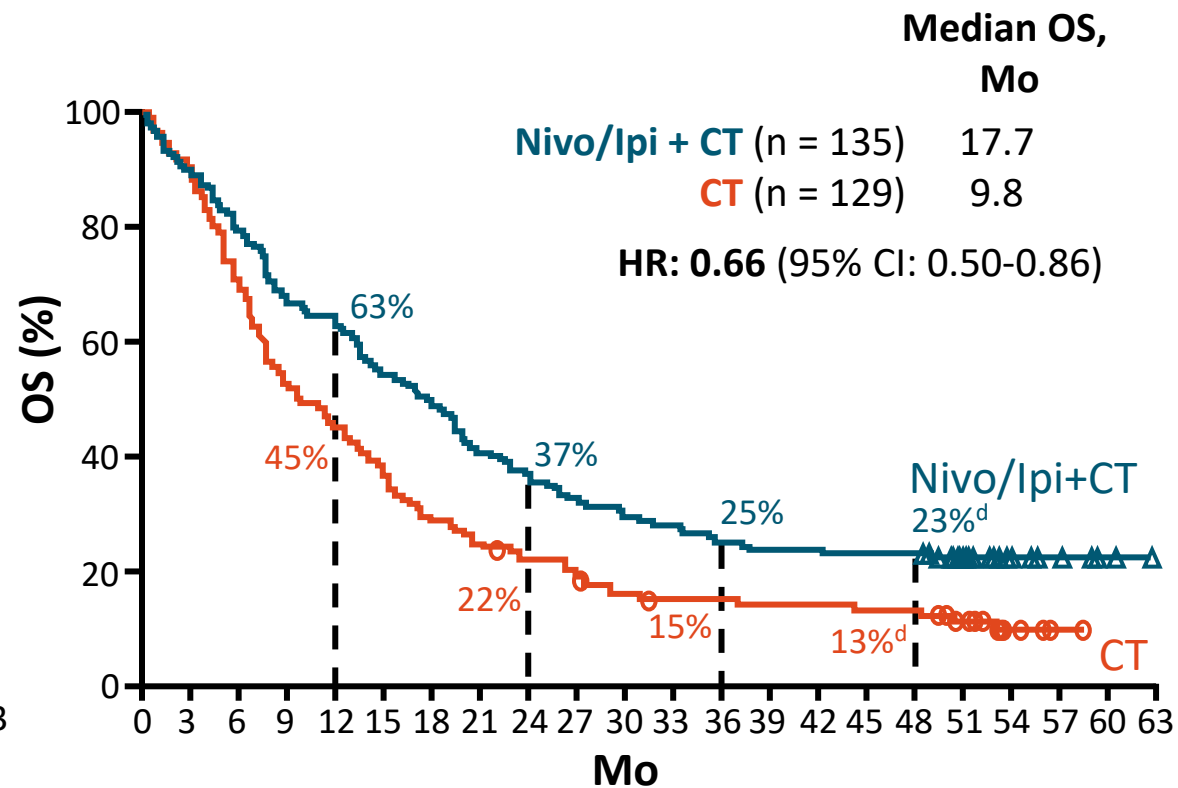
*Not FDA approved indication.

CheckMate 9LA: Nivolumab + Ipilimumab + CT vs CT in Advanced NSCLC

OS (All Randomized)



OS (PD-L1 <1*)

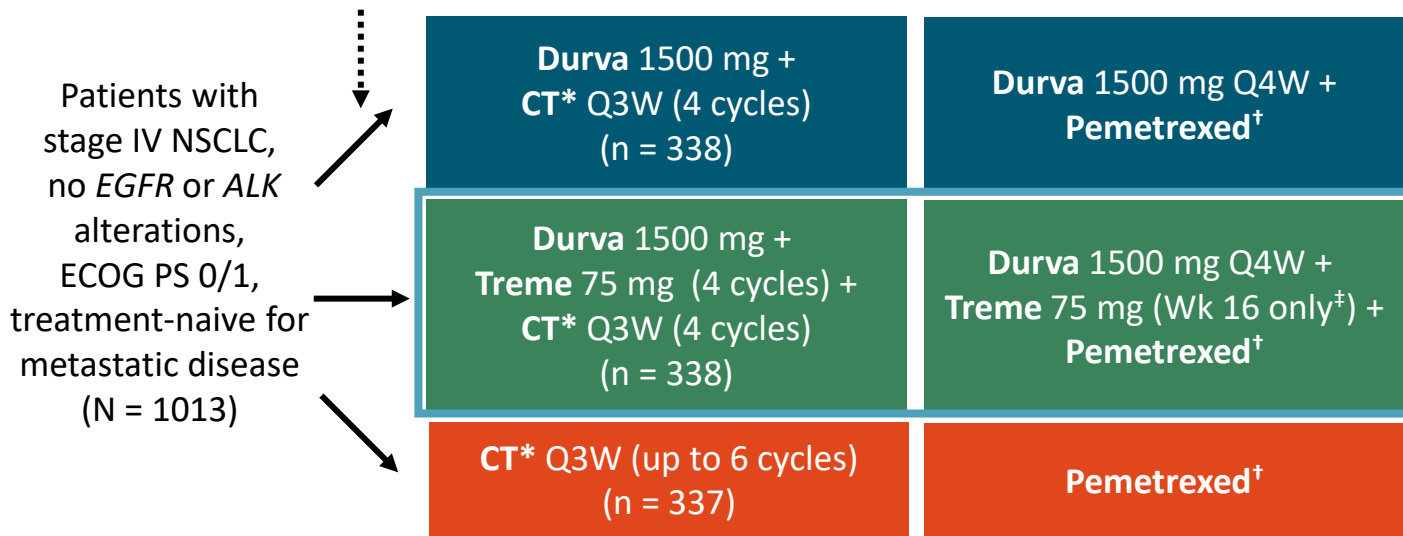


*Measured by IHC (28-8 PharmDx assay).

POSEIDON: 1L Durvalumab ± Tremelimumab + Platinum Chemotherapy in Stage IV NSCLC

- Open-label, multicenter, randomized phase III trial

Stratified by PD-L1 (≥50% vs <50%), disease stage (IVA vs IVB), histology

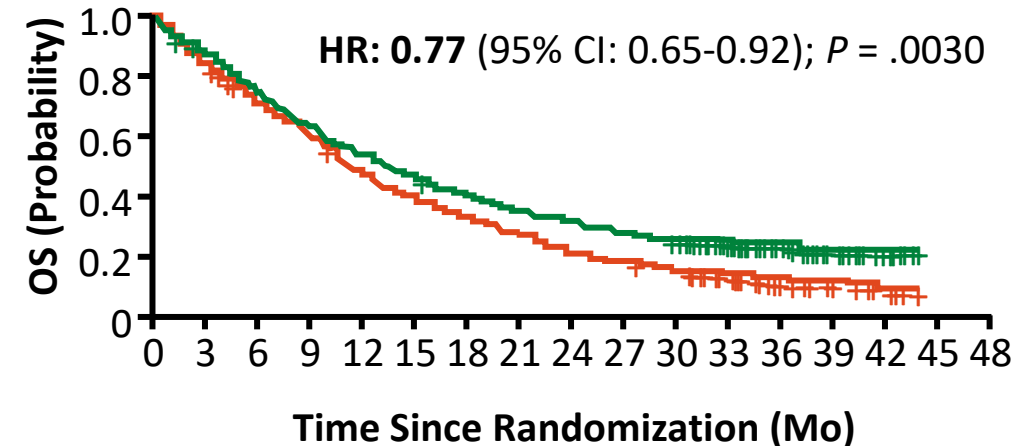


*Gem + carbo or cis (squamous), pemetrexed + carbo or cis (nonsquamous), or nab-pac + carboplatin (either histology). [†]Maintenance pemetrexed only given to patients with nonsquamous NSCLC who received first-line pemetrexed. [‡]218 patients received 5 doses of tremelimumab.

- Primary endpoints:** PFS by BICR, OS (D + CT vs CT); positivity for either triggered analysis of key secondary endpoints

OS With D + T + CT vs CT

	Median OS, Mo (95% CI)
T+ D + CT	14.0 (11.7 to 16.1)
CT	11.7 (10.5 to 13.1)



Genomic Biomarkers for Immunotherapy Response



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Immunotherapy Plus Chemotherapy in *EGFR*-Mutated NSCLC After Progression on TKIs

Trial	Treatment	Patient Population	Results
IMpower150 ¹	ACP (atezo + carbo/pac) vs ABCP (atezo + bev + carbo/pac) vs BCP (bev + carbo/pac)	<i>EGFR</i> + advanced, NSCLC* (n = 124)	In patients with <i>EGFR</i> sensitizing mutation: OS HR (ACP vs BCP): 0.90 (95% CI: 0.47-1.74)
CheckMate 722 ^{2,†}	Nivo/Ipi or Nivo + CT vs CT	<i>EGFR</i> -mutated, metastatic NSCLC after PD on <i>EGFR</i> TKI (N = 294)	mOS, mo (Nivo + CT vs CT): 19.4 vs 15.9 HR: 0.82 (95% CI: 0.61-1.10) mPFS, mo (Nivo + CT vs CT): 5.6 vs 5.4 HR: 0.75 (95% CI: 0.56-1.00); P = .0528
KEYNOTE-789 ³	Pembrolizumab + CT vs CT	TKI resistant, <i>EGFR</i> -mutated, metastatic NSQ NSCLC (N = 492)	mOS: 15.9 mo vs 14.7 mo HR: 0.84 (95% CI: 0.69-1.02); P = .0362 [‡]
ORIENT-31 ⁴	Sintilimab + bevacizumab [§] + CT vs sintilimab + CT vs CT	<i>EGFR</i> -mutated, advanced or metastatic, NSQ NSCLC after PD on <i>EGFR</i> TKI (N = 476)	mOS: 21.1 vs 20.5 vs 19.2 HR (sintilimab + bevacizumab + CT vs CT): 0.98 (95% CI: 0.72-1.34) HR (sintilimab + CT vs CT): .97 (95% CI: 0.71-1.32)
IMpower151 ⁵	ABCP vs BCP	Metastatic NSQ NSCLC with sensitizing <i>EGFR</i> or <i>ALK</i> alterations with PD after ≥1 prior TKI (n = 163)	mPFS, mo: (<i>EGFR/ALK</i> +) 8.5 vs 8.3 HR: 0.86 (95% CI: 0.61-1.21)
ATLAS ⁶	ABCP vs PC (pemetrexed + carbo or cis)	<i>EGFR</i> - or <i>ALK</i> -mutated, metastatic NSCLC after <i>EGFR</i> or <i>ALK</i> inhibitor (N = 228)	mOS: 20.63 vs 20.27; HR: 1.01 (95% CI: 0.69-1.46); P = .975

*Patient subgroup. †Trial was underpowered to differentiate between treatment arms due to reduced sample size due to the COVID-19 pandemic. ‡Did not reach prespecified threshold for statistical significance of P = .0117). §Study used a bevacizumab biosimilar IBI305.

1. Reck. Lancet Respir Med. 2019;7:387. 2. Mok. ESMO Asia 2022. Abstr LBA8. 3. Yang. ASCO 2023. Abstr LBA9000. 4. Lu. Lancet Respir Med. 2023;11:624. 5. Zhou. WCLC 2023. Abstr OA09.06. 6. Park. JCO. 2023;[EPub]

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Potential Toxicity With Sequential Use of Immunotherapy Followed by a TKI

- Retrospective review of patient records to identify severe toxicity with ICI and EGFR TKI, regardless of sequence, in patients with *EGFR*-mutated NSCLC (N = 126)
 - Of 41 patients treated with ICI followed by osimertinib, 6 developed a severe irAE
 - Of 21 patients treated with osimertinib within 3 mo of ICI, 24% developed a severe irAE; conversely, no severe irAEs were identified if osimertinib was given before ICI

Pt No.	ICI	Days on ICI	Days Between ICI and Osi	Days to irAE Onset After 1st Osi Dose	irAE	Hospitalized?	Response to Steroids?
1	Nivolumab	14	29	24	G3 pneumonitis	Yes	Yes
2	Pembrolizumab + CT*	21	23	15	G3 pneumonitis	No	Yes
3	Nivolumab + ipilimumab	392	22	167	G3 pneumonitis	Yes	Yes
4	Pembrolizumab	126	28	14	G3 colitis	Yes	No
5	Pembrolizumab	126	314	15	G3 pneumonitis	Yes	Yes
6	Nivolumab	68	39	39	G4 hepatitis	Yes	No

*Carboplatin plus pemetrexed.

Schoenfeld. Ann Oncol. 2019;30:839.

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Practical Considerations for IO in Advanced NSCLC

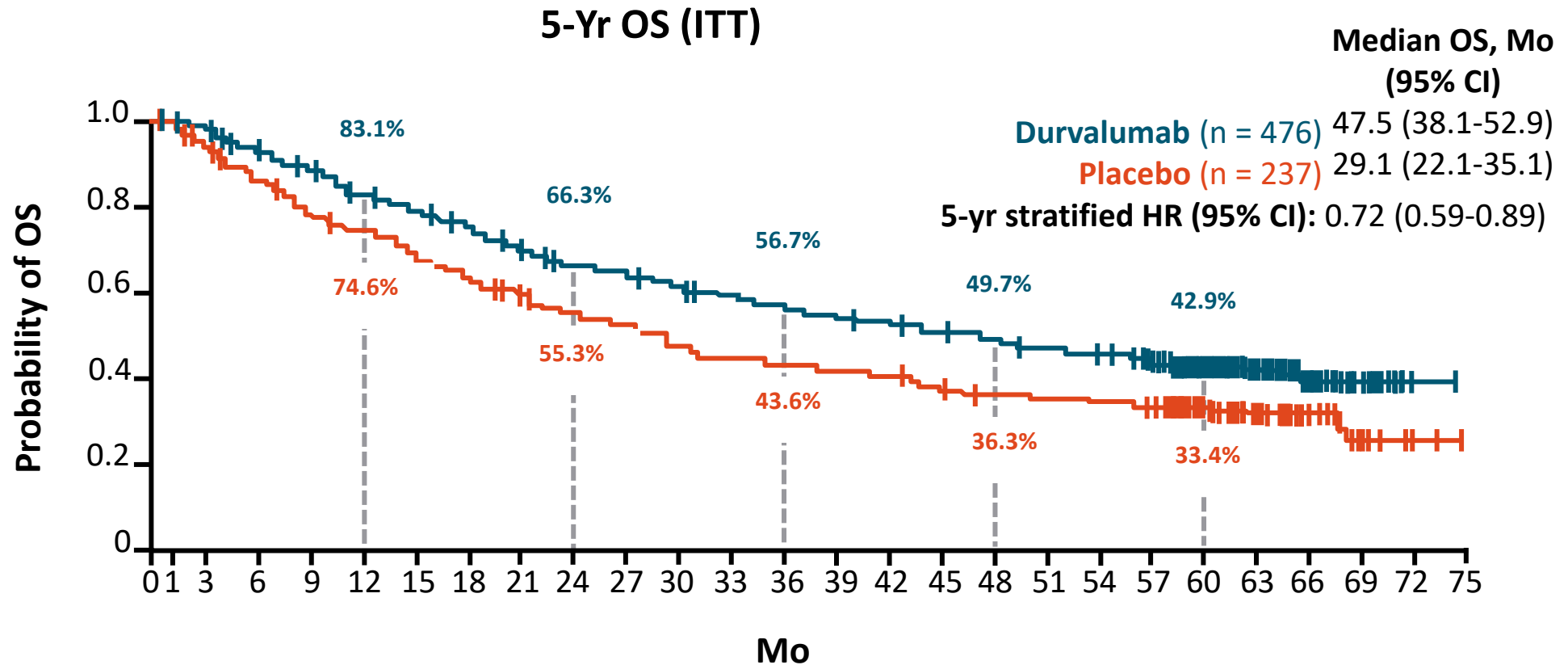
- For PD-L1–high disease, single-agent PD-1 or PD-L1 antibodies remain mainstay of treatment
 - Chemo/IO combinations increase response, but survival is similar to single-agent PD-1 blockade
- For PD-L1–negative disease, either chemo/IO, or IO/IO/chemo
 - IO/IO combinations without chemo can be considered for off-label use in select patients
- For PD-L1 1%-49%, either chemo/IO, IO/IO, or IO/IO/chemo are options
- Although long-term survival is possible, it is only realized in a subset of patients
- Sequencing of IO therapy and chemo remains an open question

Role of Immunotherapy in the Management of Stage I-III NSCLC



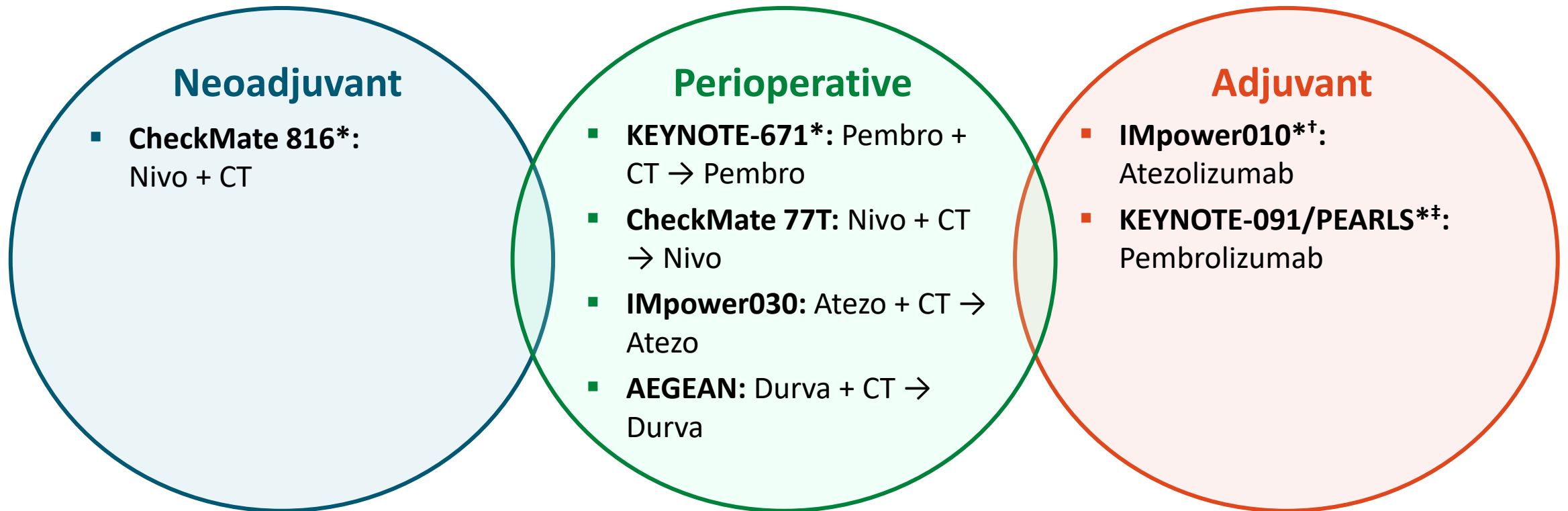
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PACIFIC: Consolidation Durvalumab After Concurrent CRT for Locally Advanced, Unresectable, Stage III NSCLC



In February 2018, the FDA approved durvalumab for the treatment of unresectable stage III NSCLC without disease progression following concurrent CRT

Evolving Immunotherapy-Based Treatment Landscape in Resectable NSCLC

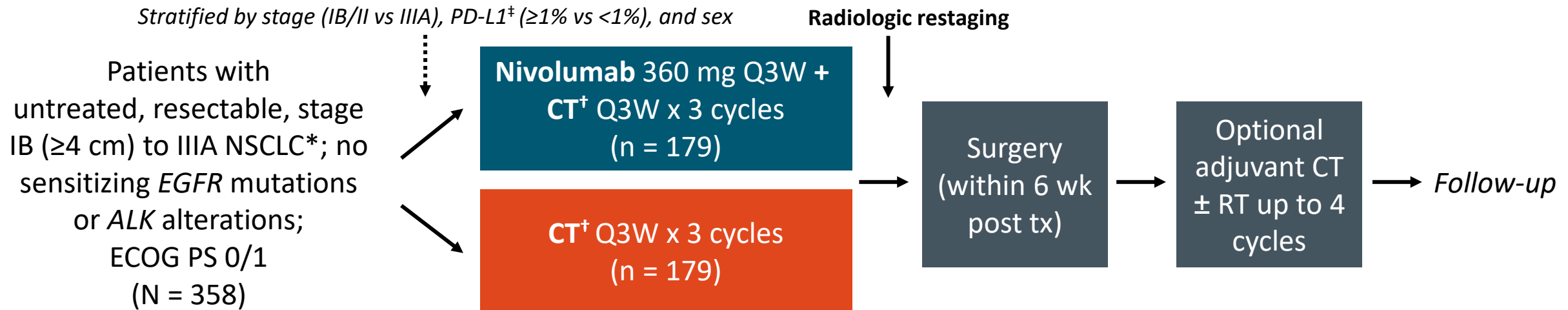


*Trials leading to FDA approvals of denoted treatment regimen

†Mandatory chemotherapy. ‡Chemotherapy not mandatory.

CheckMate 816: Neoadjuvant Nivolumab + Platinum Chemotherapy for Resectable Stage IB-IIIA NSCLC

- Randomized, open-label phase III trial



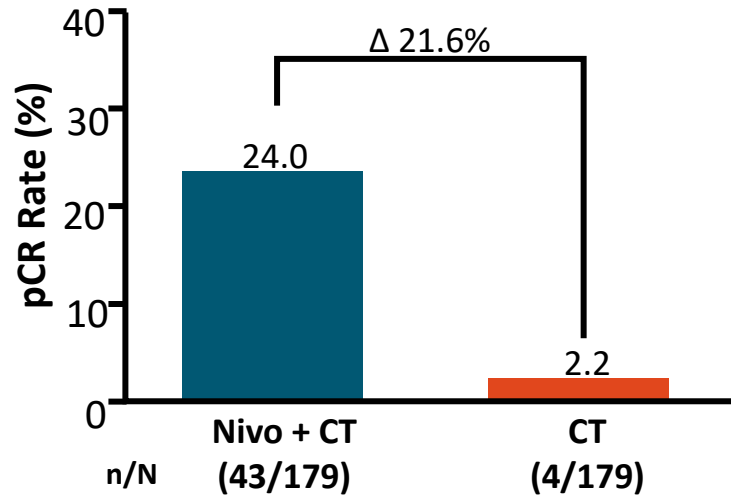
*By TNM 7th edition. [†]NSQ: cisplatin/pemetrexed; SQ: cisplatin/gemcitabine; both: carboplatin/paclitaxel; if receiving adjuvant chemotherapy: cisplatin/vinorelbine, cisplatin/docetaxel. [‡]PD-L1 28-8 pharmDx IHC assay.

- **Primary endpoints:** pCR (by BIPR) and EFS (by BICR)
- **Key secondary endpoints:** OS, MPR (by BIPR), time to death or distant metastasis
- **Key exploratory endpoints:** ORR (by BICR), feasibility of surgery, peri- and postoperative surgery related AEs

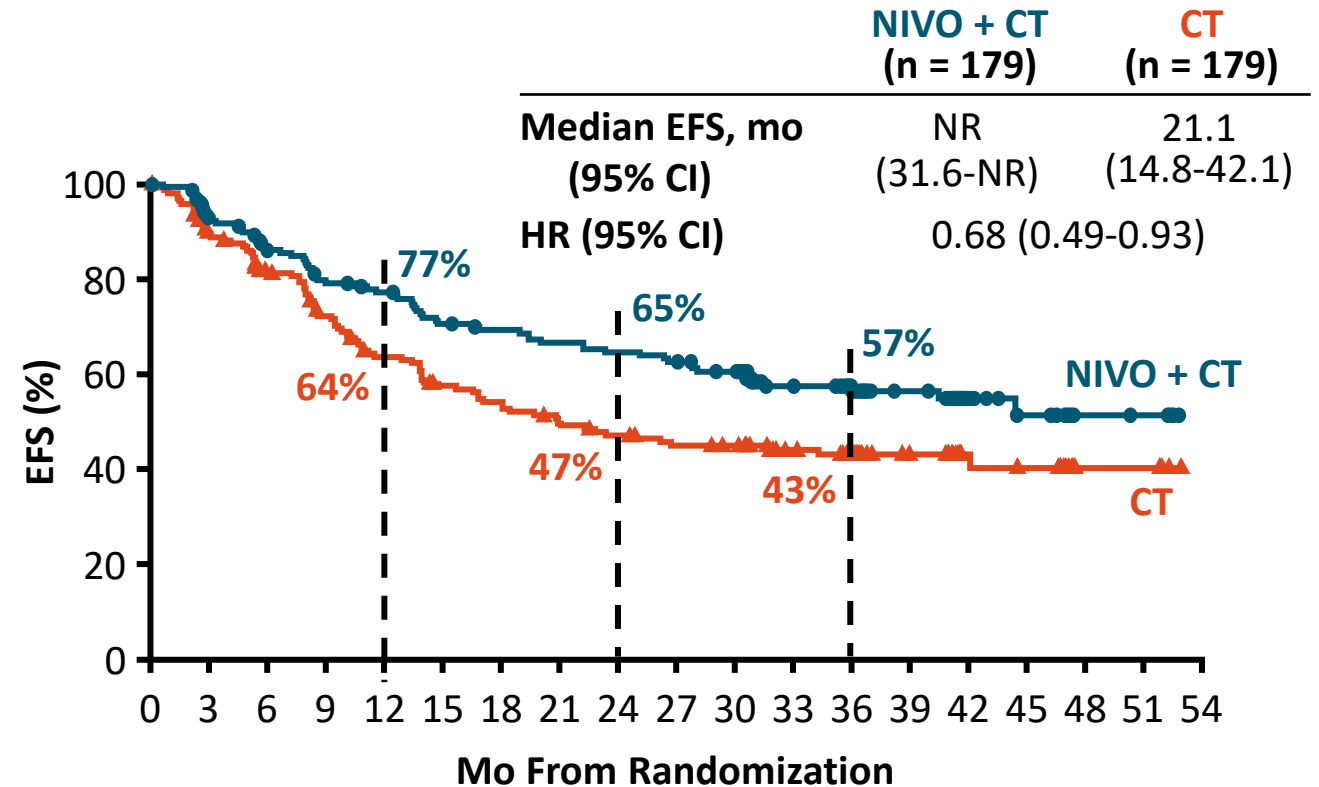
Phase III CheckMate 816: pCR and EFS

pCR (ITT; ypTON0)¹

OR: 13.94
(99% CI: 3.49-55.75;
 $P < .0001$)



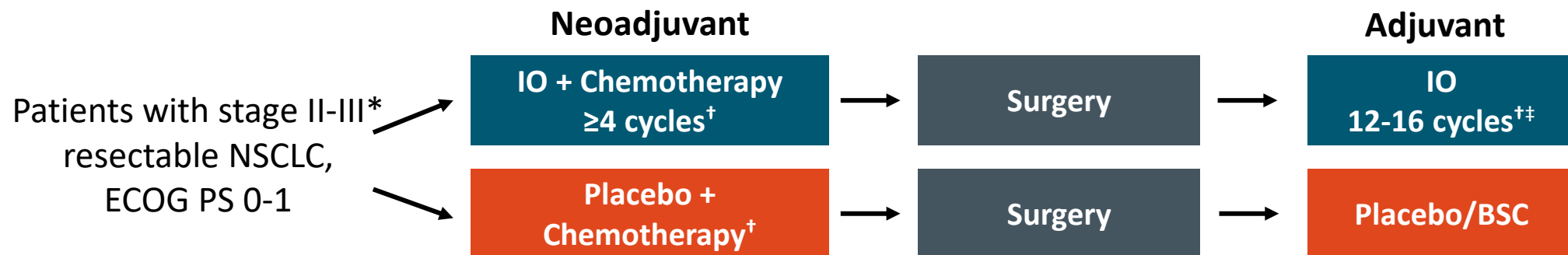
Event-free Survival²



FDA-approved in March 2022 for adults with resectable NSCLC (tumors ≥4 cm or N+) in combination with platinum doublet CT in the neoadjuvant setting³

1. Forde. NEJM. 2022;386:1973. 2. Girard. ELCC 2023. Abstr 840. 3. Nivolumab PI.

Ongoing Phase III Perioperative Studies in Resectable NSCLC



	KEYNOTE-671 ^{1,2}	AEGEAN ^{3,4}	CheckMate 77T ^{5,6}	IMpower030 ^{7,8}
IO agent	Pembrolizumab	Durvalumab	Nivolumab	Atezolizumab
Primary endpoint(s)	EFS, OS	pCR, EFS	EFS	EFS
Disease stage (TNM 8th ed.)	II-III [§]	IIA-III [§]	II-III [§]	II-III [§]
Target N	797 (actual)	826 (actual)	452	453 (actual enrollment)
EGFR or ALK mut allowed	Yes	Amended to exclude	No	No
Chemotherapy backbone	≥4 cycles of cis/(gem or pemetrexed)	4 cycles of carbo/pac, carbo/pemetrexed, cis/gem, or cis/pemetrexed	≥4 cycles carbo/pac, cis/doc, carbo/pemetrexed, cis/pemetrexed, or carbo/pac	4 cycles of carbo/pemetrexed, carbo/nab-pac, cis/pemetrexed, or cis/gem

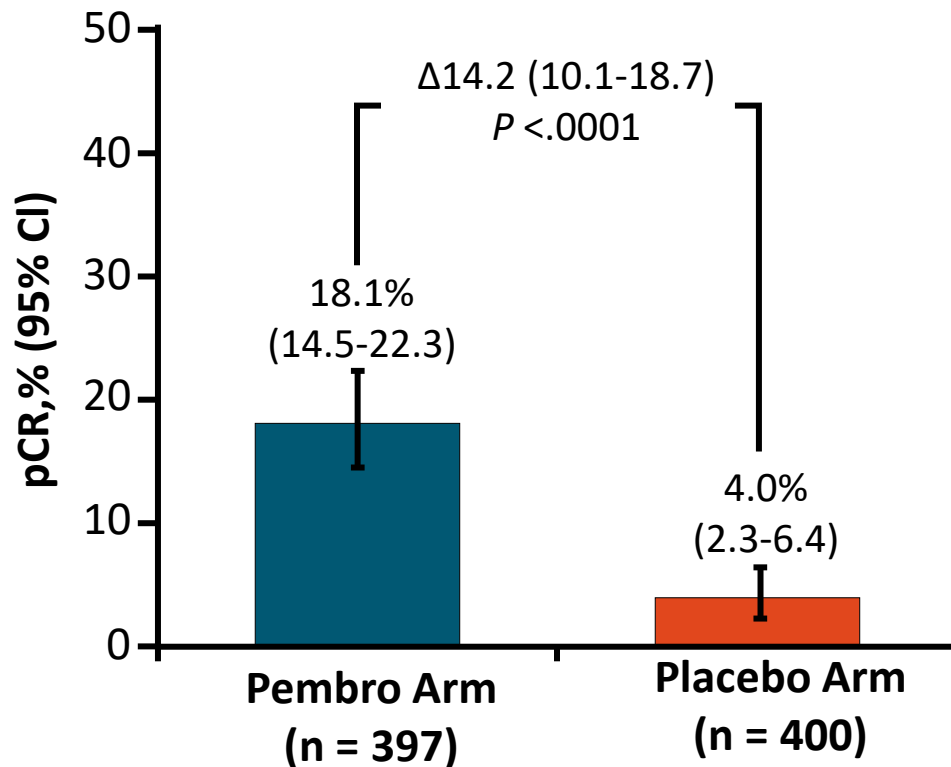
*Stages included differ between trials. [†]Dosage, timing, duration, and chemotherapy backbones differ between trials. [‡]In contrast, CheckMate 816 allowed optional adjuvant CT ± RT. [§]Includes stages III^B patients with N2 disease that is considered resectable. Cross trial comparisons are not intended. ^{||}Molecular testing no mandated

1. Spicer. ESMO 2023. Abstr LBA56. 2. NCT03425643. 3. Heymach. NEJM. 2023;389:1672. 4. NCT03800134.
5. Cascone. ESMO 2023. Abstr LBA1. 6. NCT04025879 7. Peters. Annal Oncol. 2019;30:Suppl 2. 8. NCT03456063.

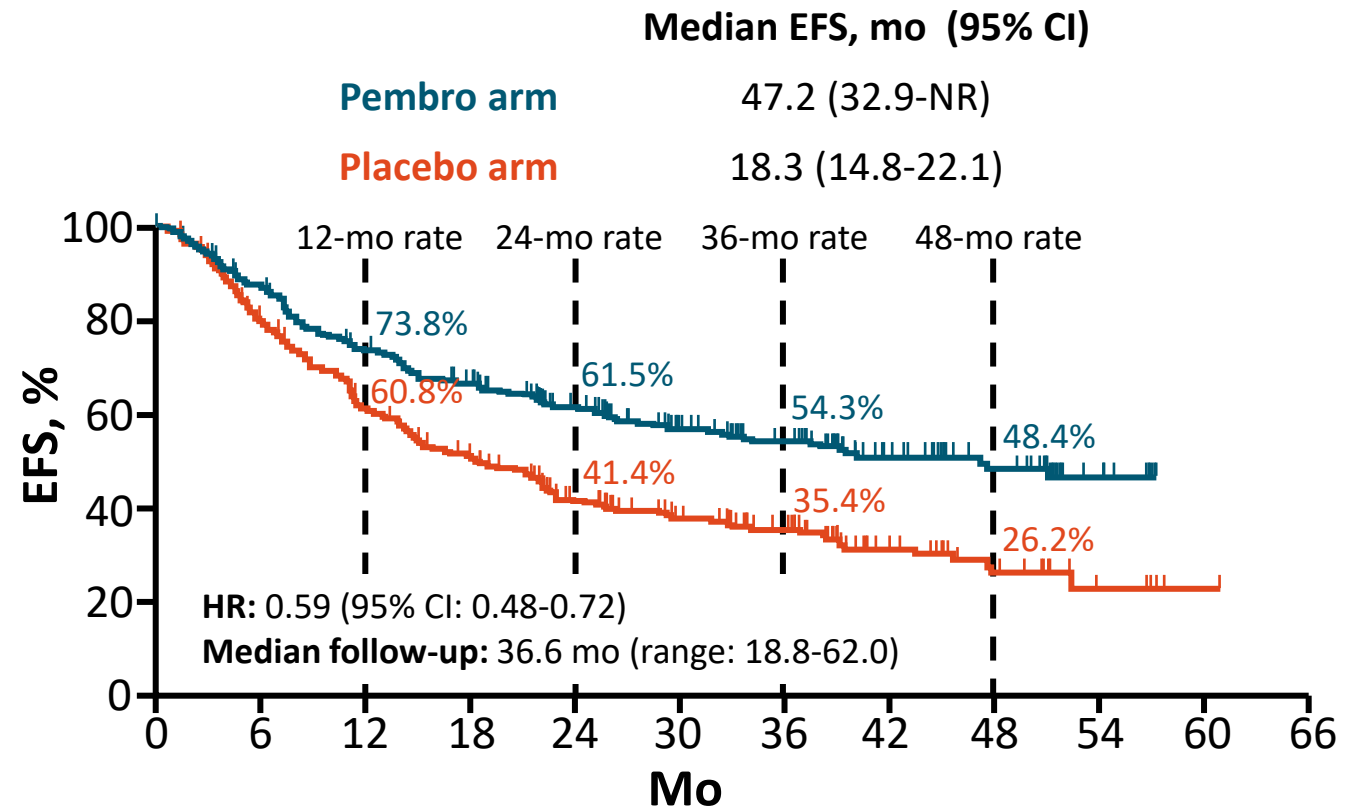
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KEYNOTE-671: Perioperative Pembrolizumab in Resectable NSCLC — pCR and Event Free Survival

pCR (Interim Analysis 1)

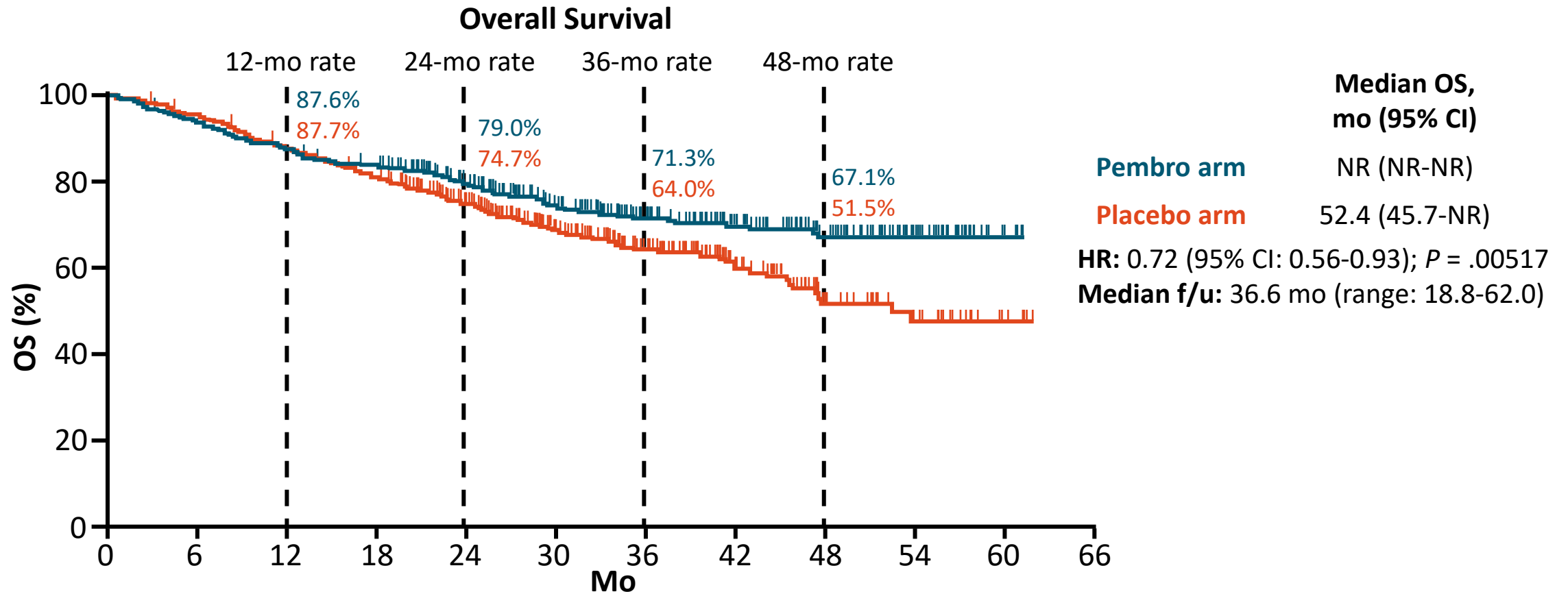


Event-free Survival



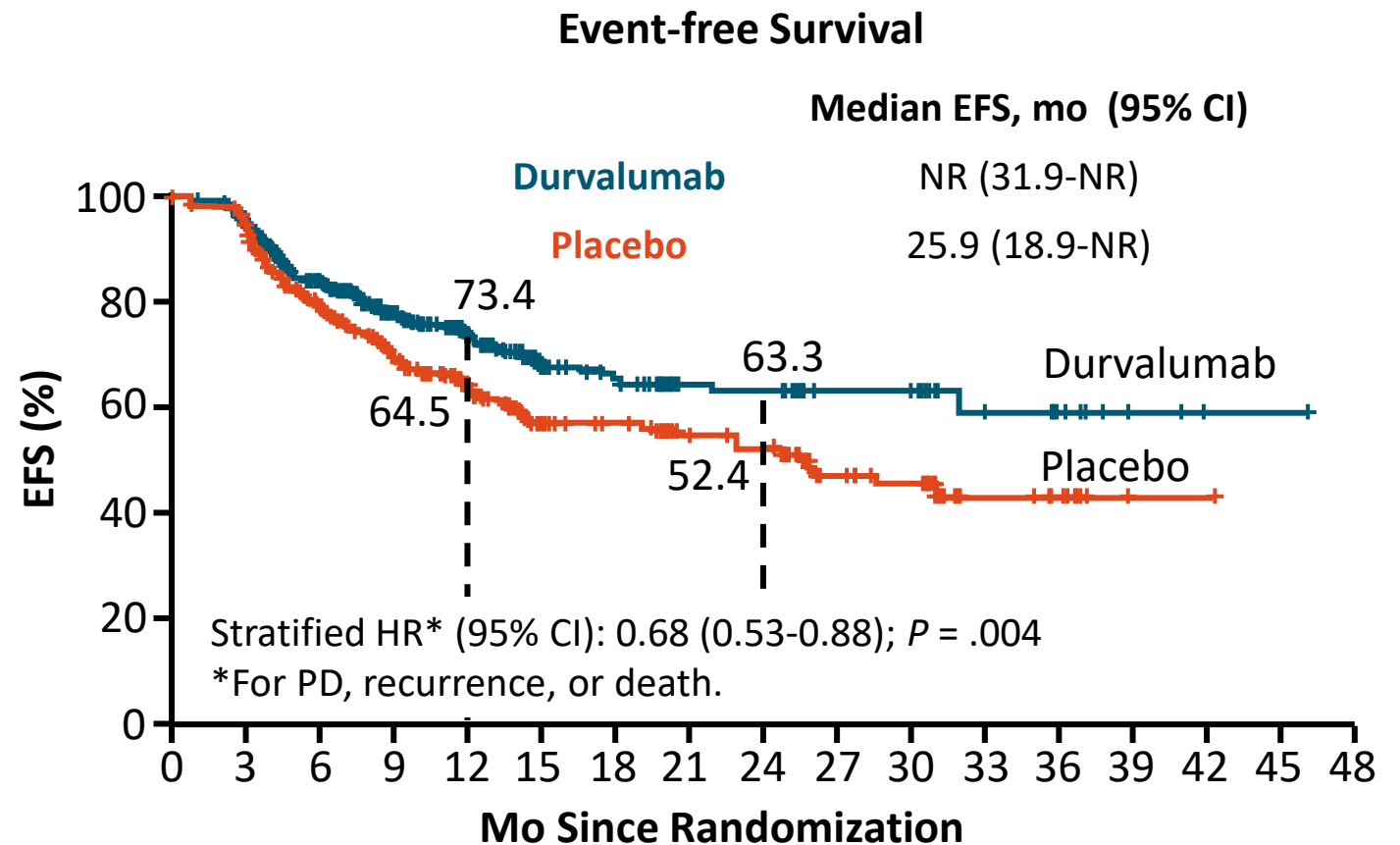
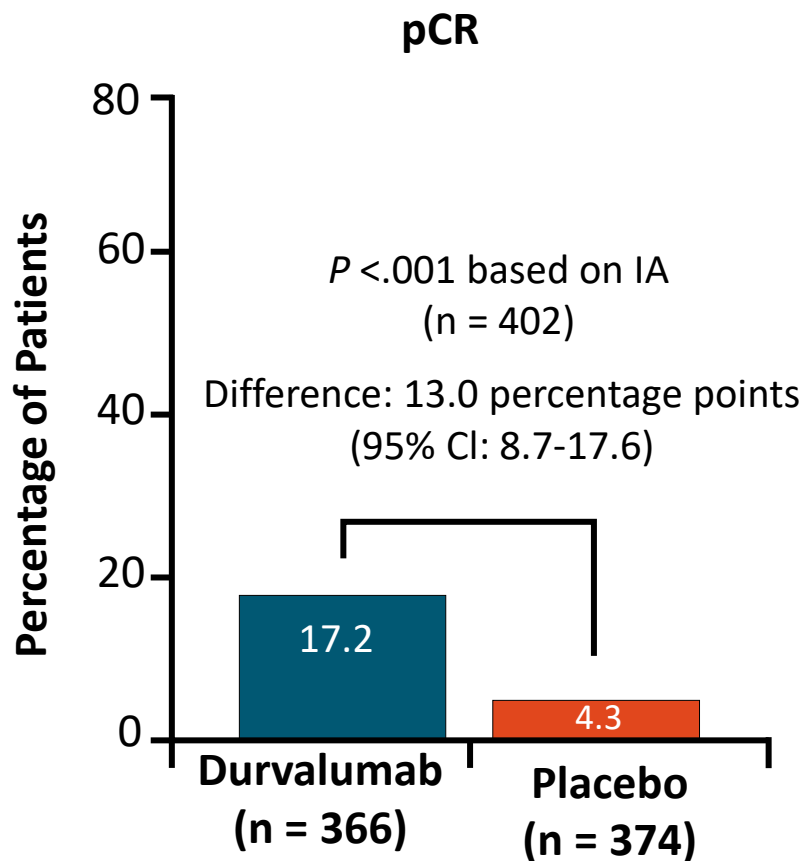
- In subgroup analysis, PD-L1 TPS $\geq 1\%$ was linked to greater EFS and OS benefit from perioperative pembrolizumab

KEYNOTE-671: Overall Survival



FDA-approved in October 2023 for resectable (tumors ≥ 4 cm or node-positive) NSCLC in combination with platinum-containing CT **as neoadjuvant treatment**, and then **continued as a single agent as adjuvant treatment** after surgery

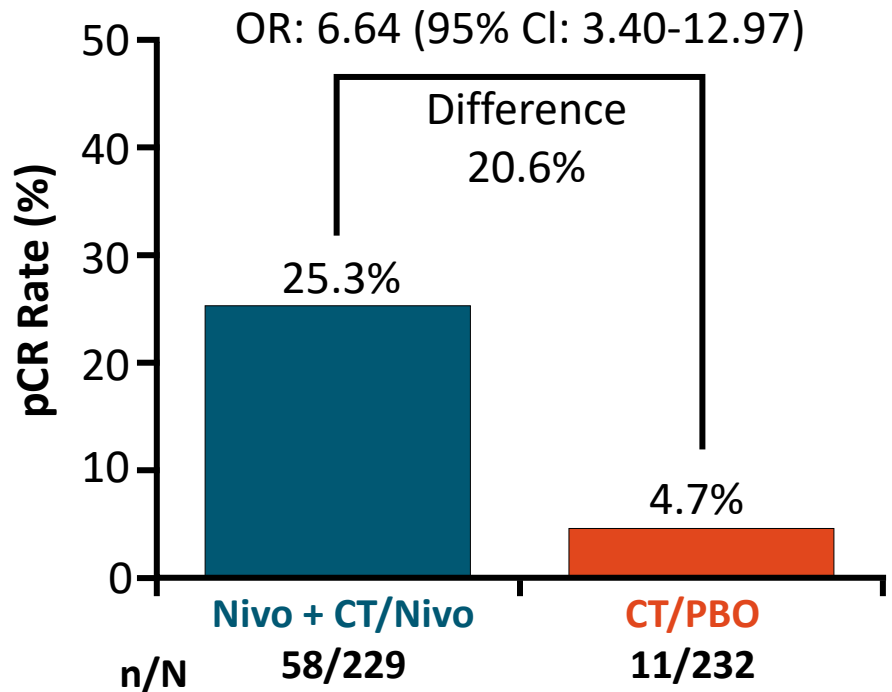
AEGEAN: Perioperative Durvalumab in Resectable NSCLC — pCR and EFS



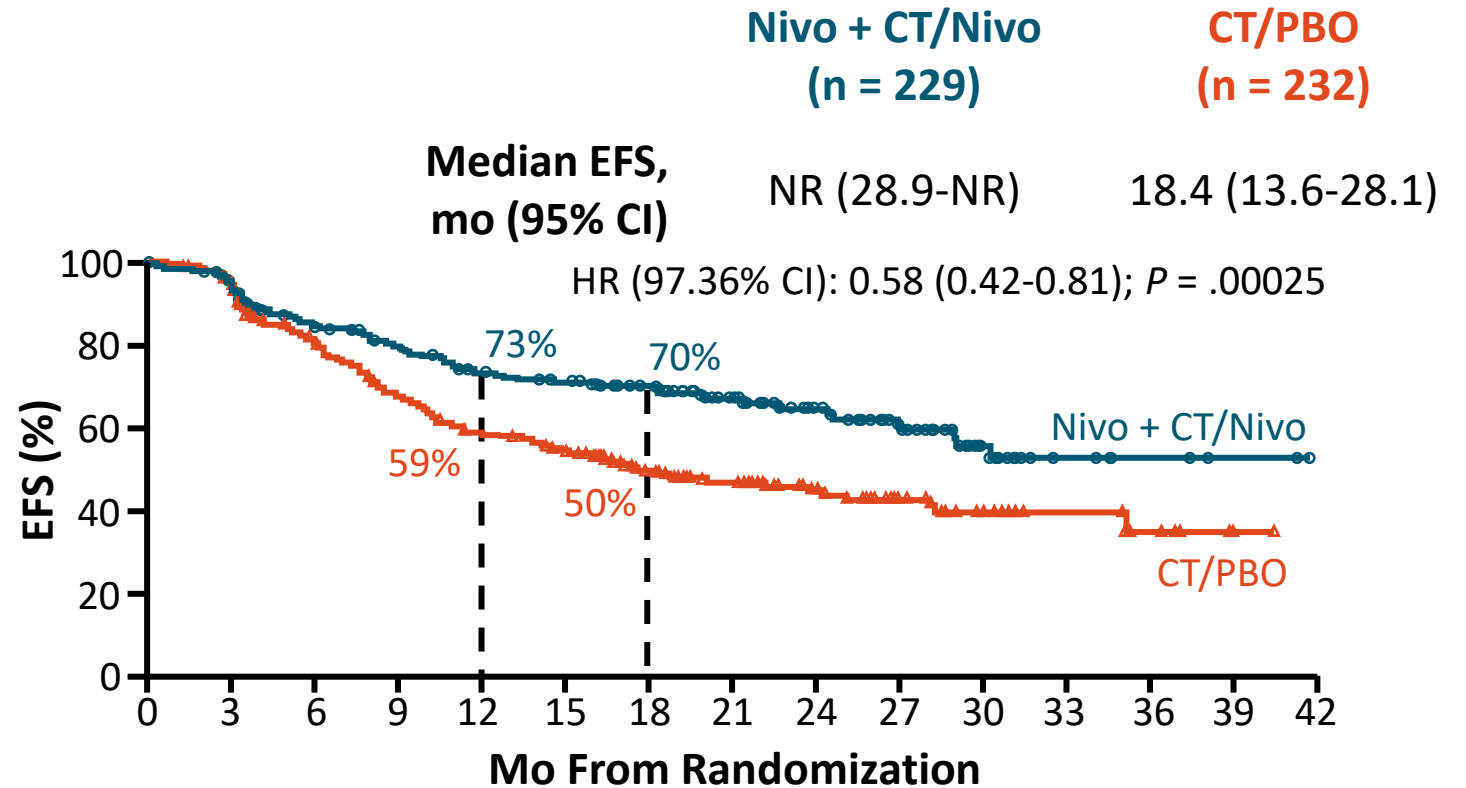
- EFS and pCR benefit with perioperative durvalumab was seen regardless of disease stage and PD-L1 expression

CheckMate 77T: Perioperative Nivolumab in Resectable NSCLC

pCR



Event-free Survival

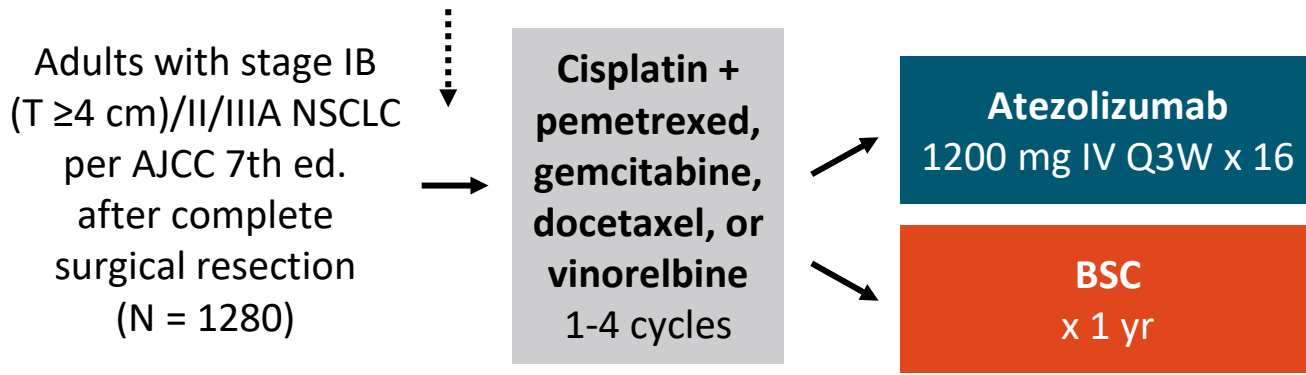


- EFS benefit was across key subgroups including disease stage, nodal status, tumor histology, and PD-L1 expression
- MPR (35.4% vs 12.1%) rates were improved in the nivolumab arm compared with the chemotherapy arm

Phase III Adjuvant Immunotherapy Trials

IMpower010^{1,2}

Stratified by PD-L1 expression, sex, stage (IB vs II vs IIIA), and histology

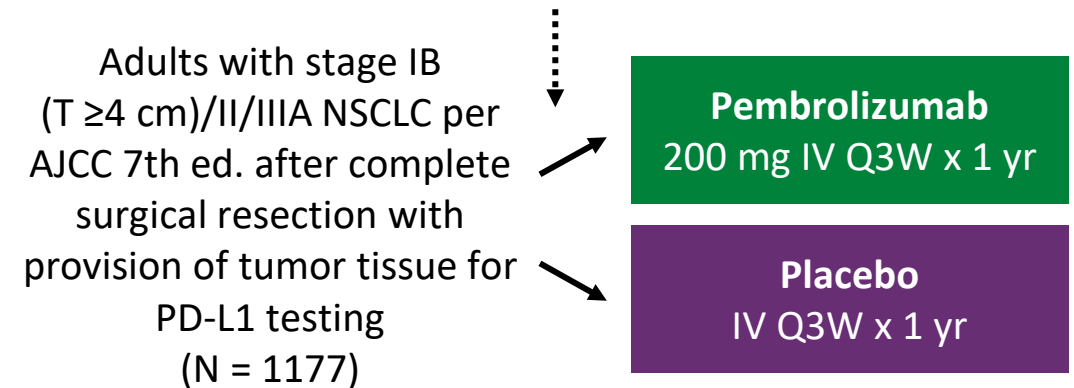


Chemotherapy mandatory

- **Primary endpoint:** DFS by investigator (hierarchical design) in PD-L1+ stage II-III A > all stage II-III A > ITT (stage IB-III A)

PEARLS/KEYNOTE-091³

Stratified by disease stage (IB vs II vs IIIA), PD-L1 TPS (<1% vs 1%-49% vs ≥50%, and geographic region)

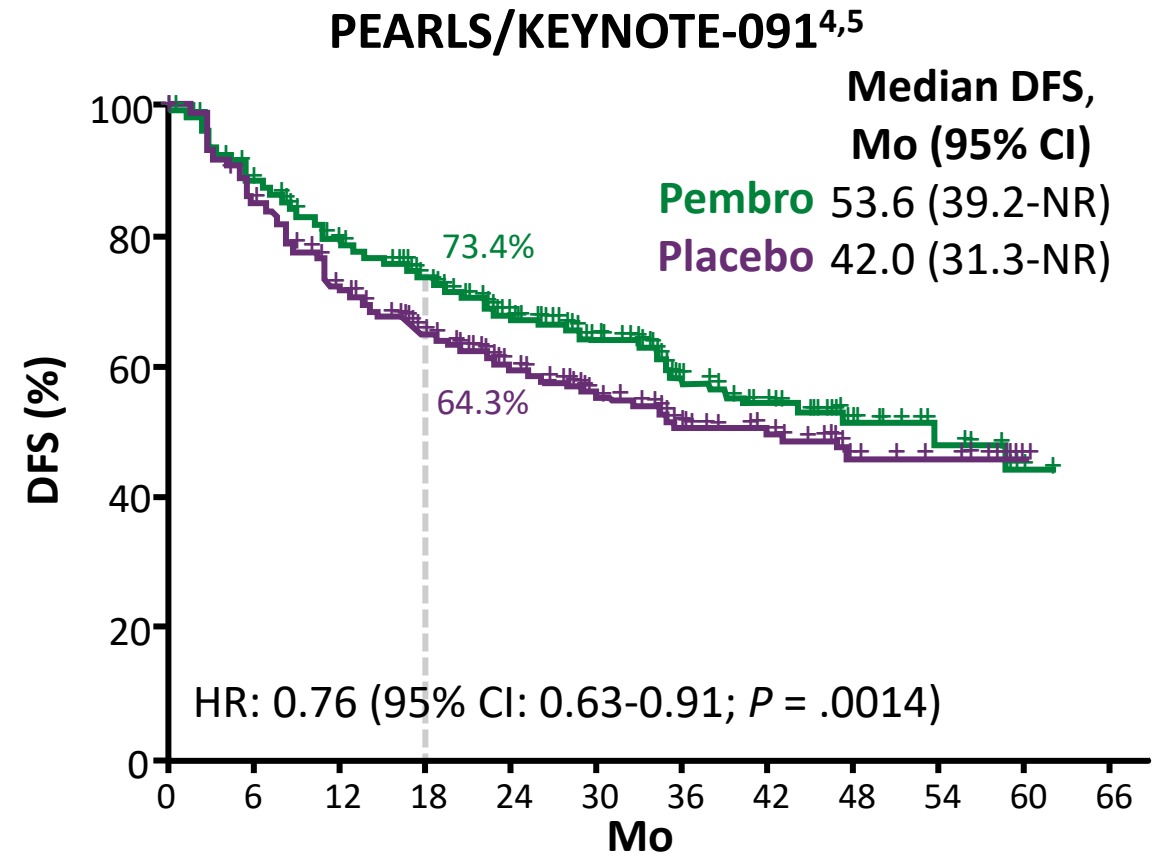
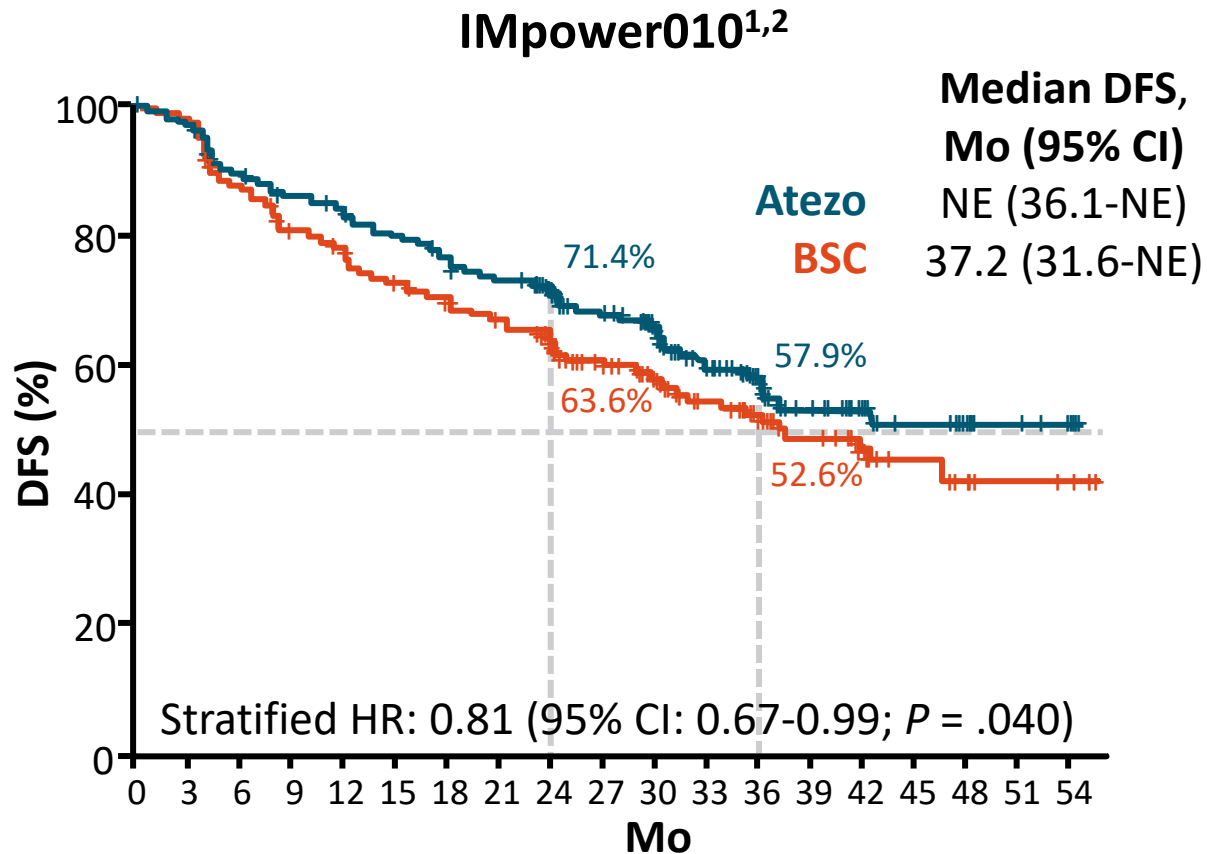


Chemotherapy not mandatory

- **Primary endpoint:** DFS

Cross-trial comparisons have significant limitations. The information in this section is presented in order to generate discussion, not to make direct comparisons between study results.

Adjuvant IO Trials: DFS in Overall Population (ITT)



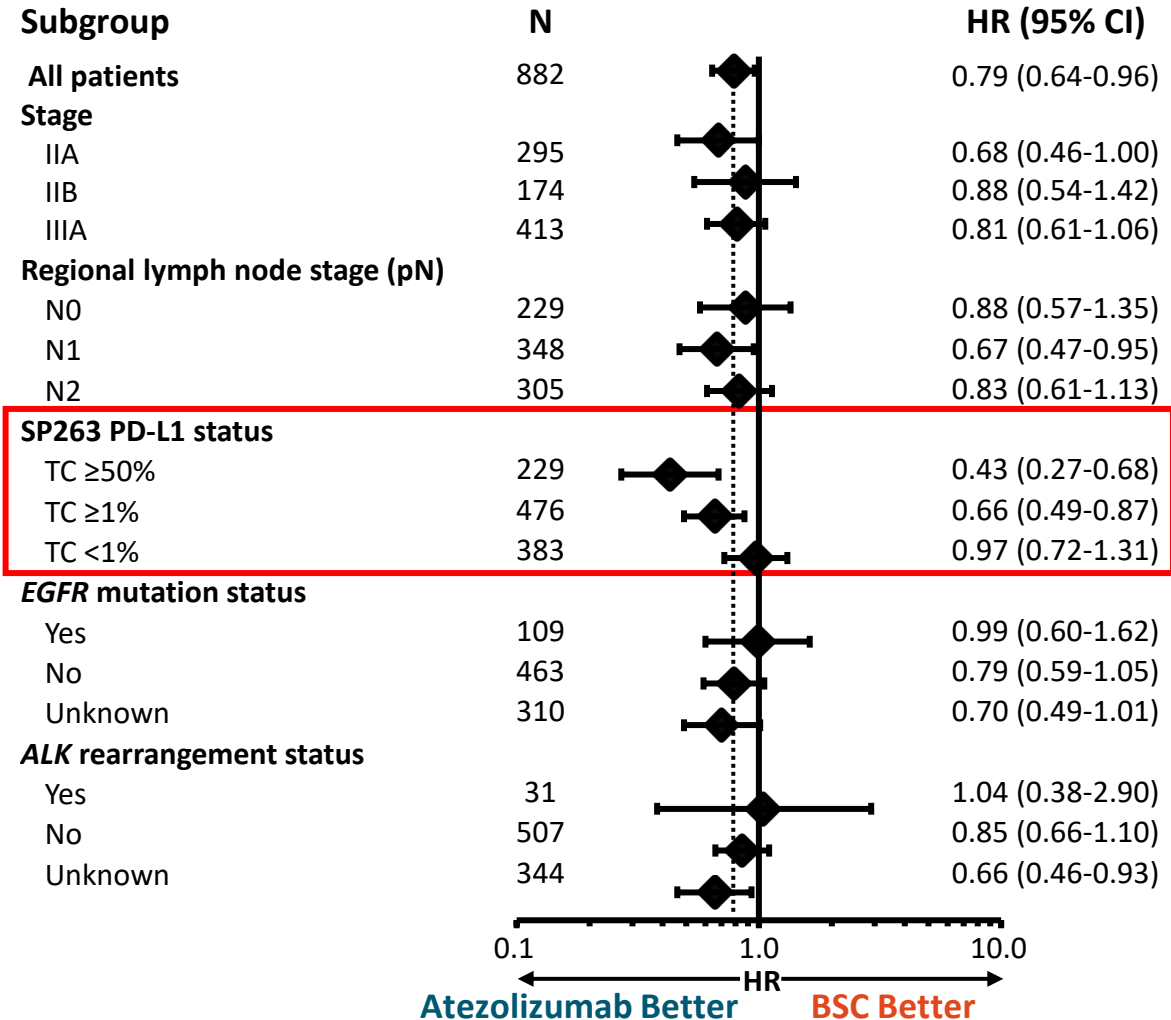
FDA-approved in October 2021 as **adjuvant treatment** following resection and platinum-based CT for adult patients with stage II to IIIA NSCLC whose tumors have PD-L1 expression on $\geq 1\%$ of tumor cells³

FDA-approved in January 2023 for **adjuvant treatment** following resection and platinum-based CT for adult patients with stage IB (T2a ≥ 4 cm), II, or IIIA NSCLC⁶

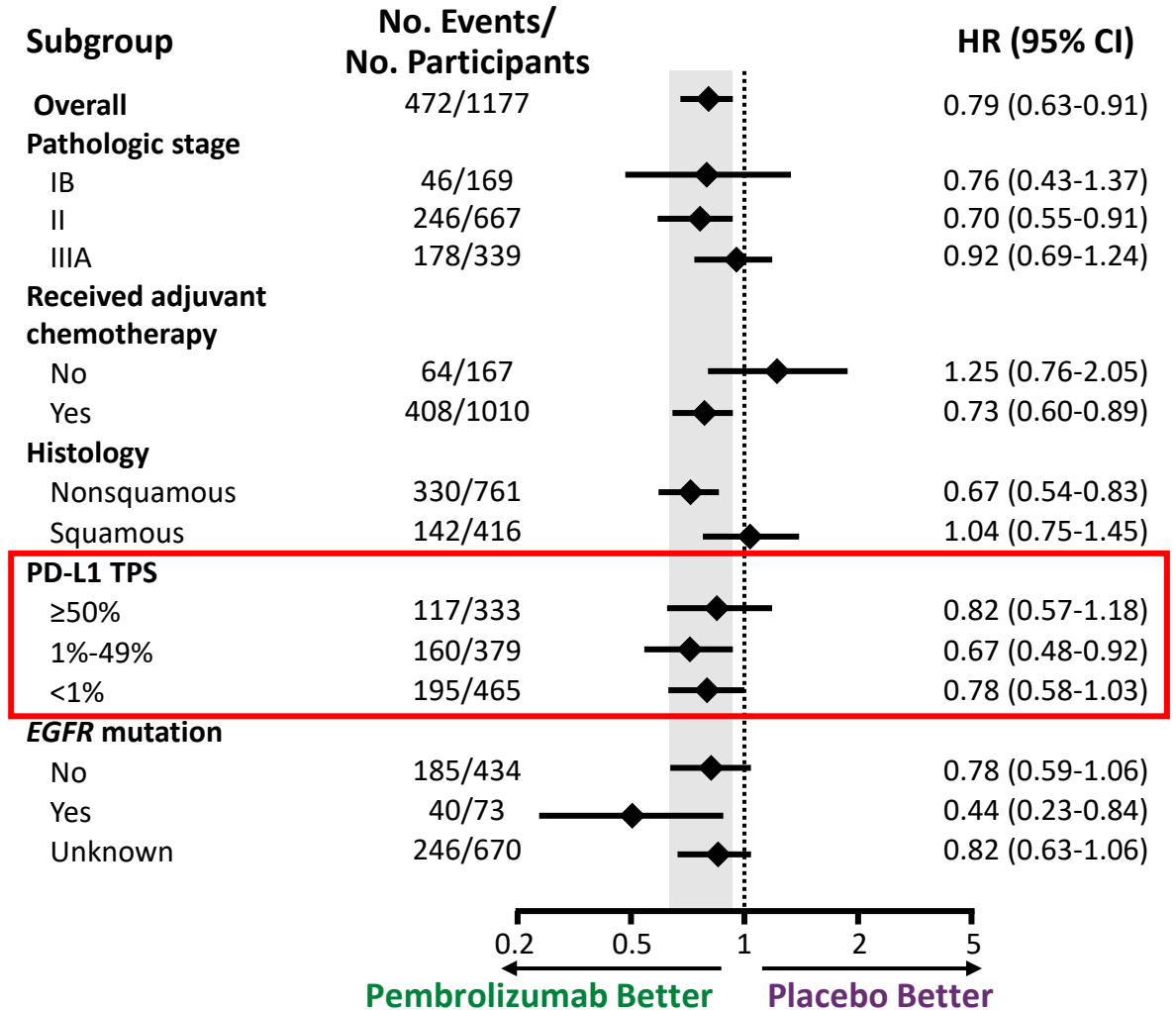
1. Wakelee. ASCO 2021. Abstr 8500. 2. Felip. Lancet. 2021;398:1344. 3. Atezolizumab PI. 4. Paz-Ares. ESMO Virtual 2022. Abstr VP3-2022. 5. O'Brien. Lancet Oncol. 2022;23:1274. 6. Atezolizumab PI.

Adjuvant IO Trials: DFS by Subgroup

IMpower010: All Randomized Stage II-III A^{1,2}



PEARLS/KEYNOTE-091: Overall Population^{3,4}



1. Wakelee. ASCO 2021. Abstr 8500. 2. Felip. Lancet. 2021;398:1344. 3. Paz-Ares. ESMO Virtual 2022. Abstr VP3-2022. 4. O'Brien. Lancet Oncol. 2022;23:1274.

How Is the Decision Made?

Neoadjuvant

- Shorter treatment time
- Better treatment compliance
- Allows response assessment
- Option to tailor further therapy to response
- Potential downstaging
- Better antigen priming?
- Early reduction of micrometastases

Perioperative

- Eradicate micrometastases before and after surgery
- Risk of overtreatment
- Allows response assessment
- Longer treatment time

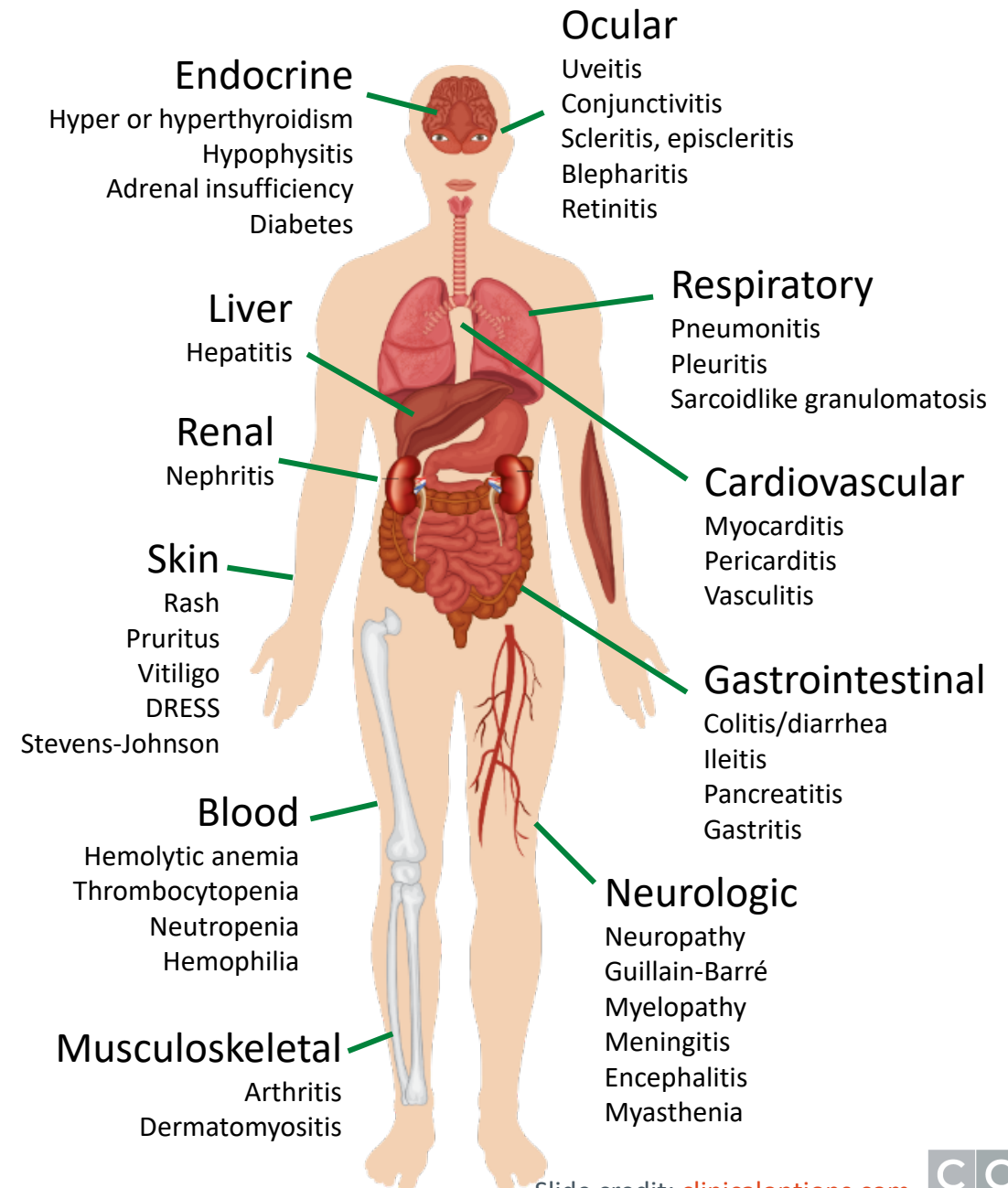
Adjuvant

- No risk of surgical delay
- No increased perioperative risks due to preop therapy
- Complete pathologic staging
- Longer treatment time

- Multidisciplinary discussion is critical and should be done early—prior to surgery but after mediastinal staging

Spectrum of irAEs

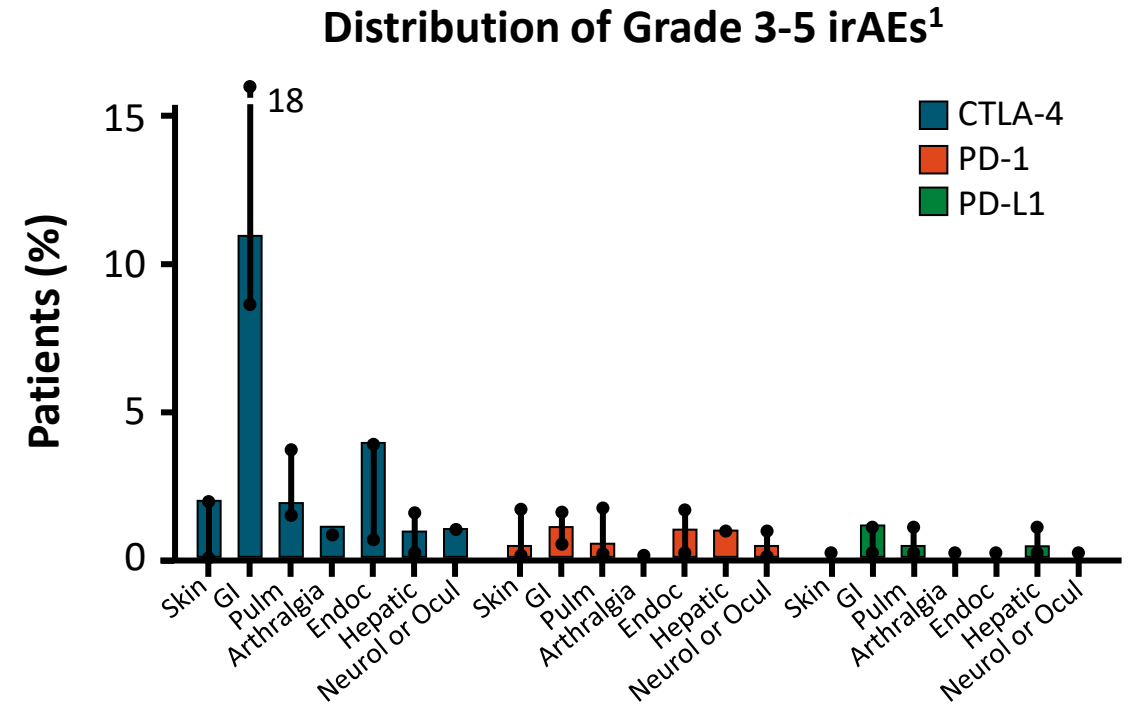
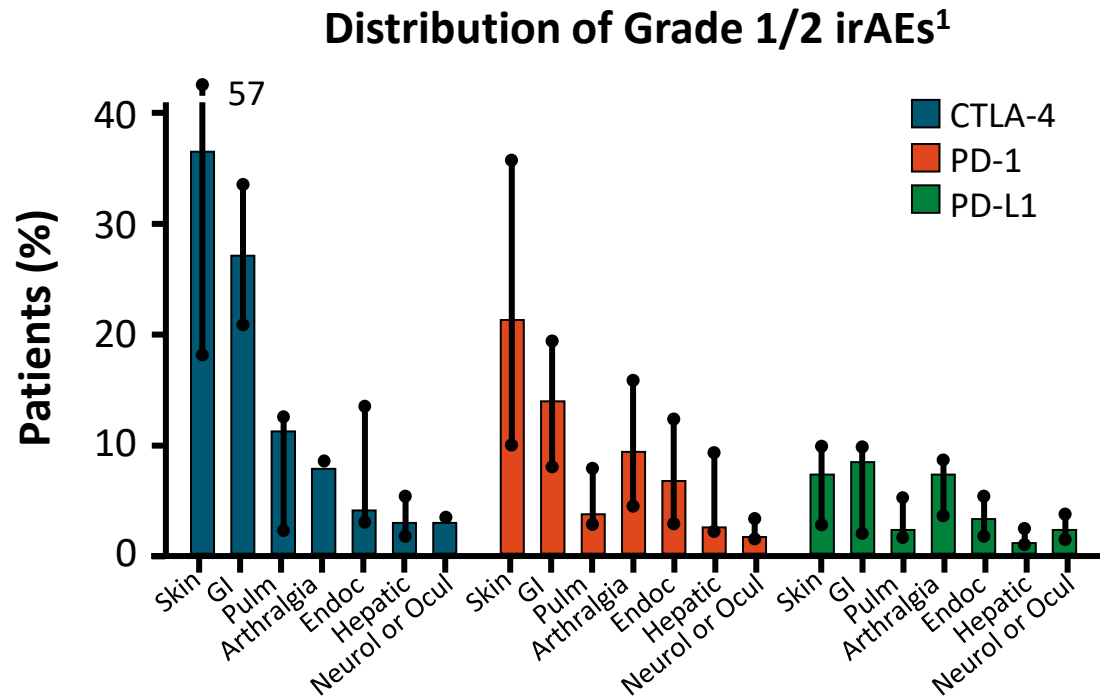
- irAEs can affect **any** organ of the body
- Onset varies
 - Usually 2 to 3 mo after starting tx
 - Up to 2 yr after tx completion
- Maintain high level of suspicion for irAEs when new symptoms develop
- If irAEs are suspected, conduct a complete workup, including lab tests, to rule out other causes



Brahmer. JCO. 2018;36:1714. Champiat. Ann Oncol. 2016;27:559. Michot. Eur J Cancer. 2016;54:139. Robert. ASCO 2017. Education session: checkpoint inhibitor immunotherapy. Steven. Rheumatology (Oxford). 2019;58:vii29. Winer. J Thorac Dis. 2018;10:S480. Zimmerman. Am Soc Clin Oncol Educ Book. 2018;38:682.

Slide credit: clinicaloptions.com

Frequency of irAEs With ICI Monotherapy*



*CTLA4 monotherapy is not used in NSCLC

- Incidence of irAEs varies among malignancies
 - Colitis more common in melanoma, pneumonitis more common in NSCLC²

Patient and Caregiver Education and Counseling

- Provide overview of MoA
 - Provide information booklet, wallet card
 - Review recommendations for inactivated (nonlive) vaccinations (eg, COVID-19)
- Ensure patient understands AEs associated with both ICI and CT during and after tx
 - Address any concerns about reporting symptoms
 - Review how to contact office to report symptoms
 - Review symptoms that patient needs to report urgently (eg, temp $\geq 100.5^{\circ}\text{F}$)
 - Counsel to report all symptoms!

IMMUNOTHERAPY WALLET CARD

NAME: _____

CANCER DX: _____

I-O AGENTS RCVD: CHECKPOINT INHIBITOR(S)

CAR-T VACCINES ONCOLYTIC VIRAL THERAPY

MONOCLONAL ANTIBODIES

DRUG NAME(S): _____

IMMUNOTHERAPY TX START DATE: _____

OTHER CANCER MEDICATIONS: _____

NOTE: IMMUNOTHERAPY AGENTS ARE NOT CHEMOTHERAPY AND SIDE EFFECTS MUST BE MANAGED DIFFERENTLY. (SEE BACK)

IMMUNOTHERAPY CARD

IMMUNE-RELATED SIDE EFFECTS*, COMMON WITH CHECKPOINT INHIBITORS VARY IN SEVERITY AND MAY REQUIRE REFERRAL AND STEROIDS. PATIENTS HAVE A LIFETIME RISK OF IMMUNE-RELATED SIDE EFFECTS.

*MAY PRESENT AS RASH, DIARRHEA, ABDOMINAL PAIN, COUGH, FATIGUE, HEADACHES, VISION CHANGES, ETC.—CONFER WITH ONCOLOGY TEAM BEFORE CHANGING I-O REGIMEN OR STARTING SIDE EFFECT TREATMENT.

ONCOLOGY PROVIDER NAME _____

ONCOLOGY PROVIDER NO. _____

EMERGENCY CONTACT _____

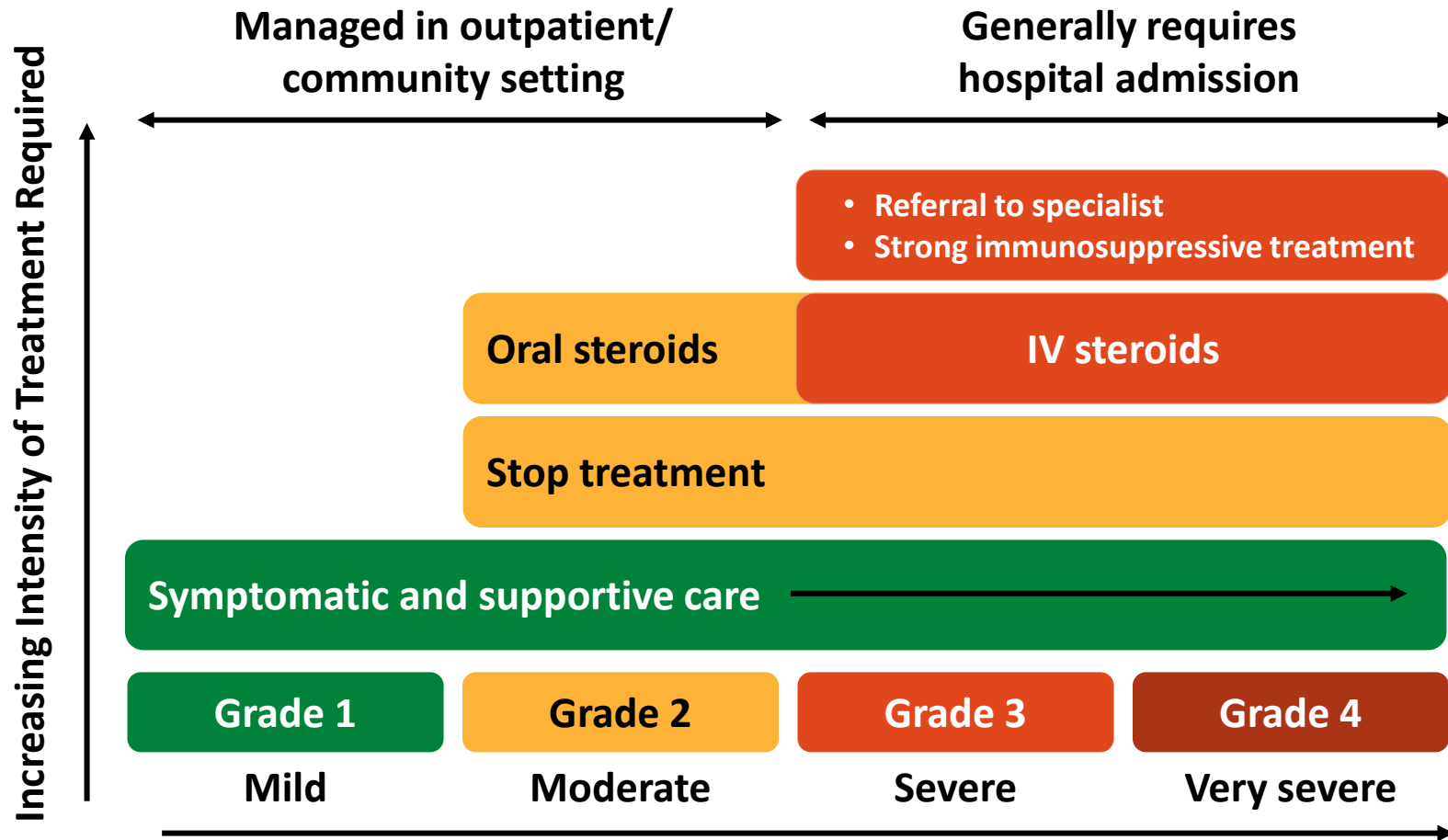
CONTACT PHONE NO. _____

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ons.org/clinical-practice-resources/immunotherapy-patient-wallet-card

Patient Counseling Script
“If we catch the irAE early, there’s a better chance we can reverse it and restart you on the ICI.”

General Recommendations for Treatment of irAEs



- Steroids (PO/IV): 0.5-2 mg/ kg/d prednisone or equivalent; slow taper over 4-6 wk
- For some irAEs, ICI can be restarted after resolution (eg, rash)
- Endocrinopathies: ICI can generally be continued with management
- Multidisciplinary approach management is beneficial
 - Consult with specialists for severe irAEs

General Recommendations for Management of AEs With Chemoimmunotherapy

- Counsel patients: “Report all your symptoms and let the provider figure out what’s causing it”
 - Sometimes patients assume a symptom is just due to CT
- Management depends on figuring out cause of AE → **timing is critical!**
 - Employ a multidisciplinary approach for challenging cases

Parameter	CT	ICI
Typical timing/pattern	<ul style="list-style-type: none"> ▪ Rapid onset after administration ▪ Cyclical onset/recovery 	<ul style="list-style-type: none"> ▪ Onset after several cycles ▪ Persists/worsens over time
General management strategies		
▪ Hold dose	Yes	Yes
▪ Reduce dose	Yes	No
▪ Switch to less toxic agent	Yes	No
▪ Steroids	Rarely (depends on toxicity)	Yes*
▪ Permanently discontinue	Yes (if severe)	Yes (if severe)

*Steroid should be tapered slowly over 4-6 wk.