Expert Second Opinion: The Emerging Role of Immunotherapy and Targeted Treatment in Localized Non-Small Cell Lung Cancer

A Live Webinar Held as a Satellite CME/MOC Symposium During the IASLC 2021 World Conference on Lung Cancer Worldwide Virtual Event

Sunday, September 12, 2021 11:15 PM – 12:15 AM ET

Faculty

Edward B Garon, MD, MS
Jarushka Naidoo, MB BCH, MHS
Harvey I Pass, MD
Heather Wakelee, MD



Faculty



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Moderator
Neil Love, MD
Research To Practice
Miami, Florida



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Professor of Medicine
Chief, Division of Oncology
Stanford University School of Medicine
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Stanford, California



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Dr Love — Disclosures

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Dr Pass — Disclosures

No relevant conflicts of interest to disclose

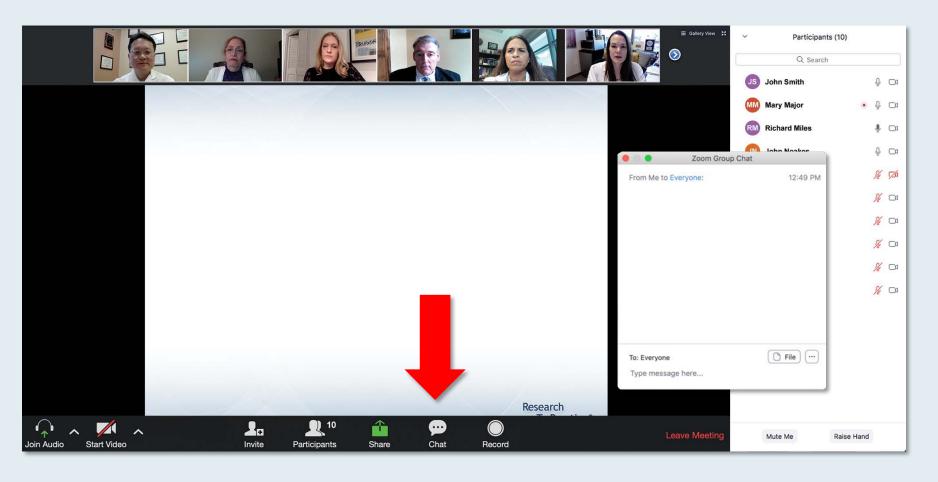


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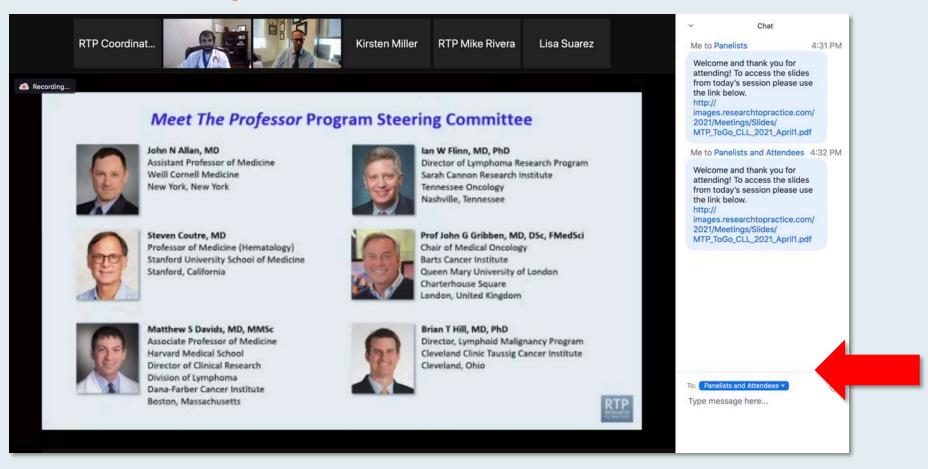
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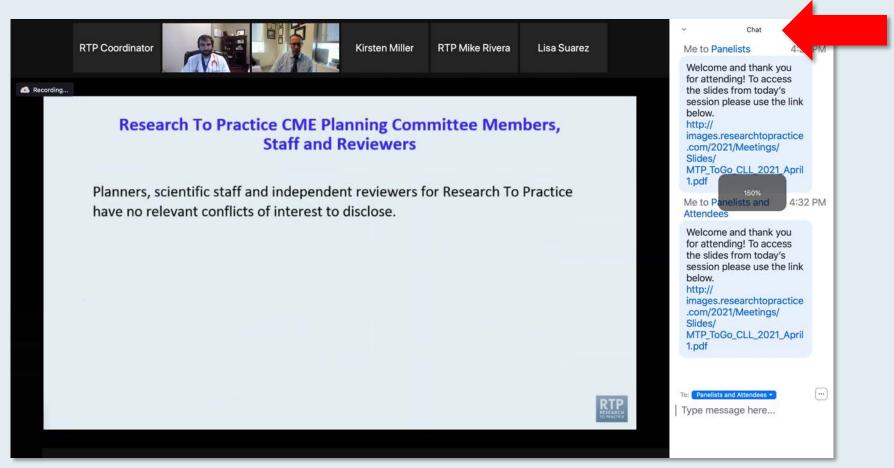


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Key Presentations on Lung Cancer from the 2021 ASCO Annual Meeting



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What Urologists Want To Know: Addressing Current Questions and Controversies in the Management of Bladder Cancer

A Virtual CME Satellite Symposium During the American Urological Association (AUA) 2021 Annual Meeting

Monday, September 13, 2021 11:00 AM – 12:30 PM ET

Faculty

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Ashish M Kamat, MD, MBBS
Guru Sonpavde, MD
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Neal D Shore, MD



Meet The Professor Optimizing the Selection and Sequencing of Therapy for Patients with Renal Cell Carcinoma

Tuesday, September 14, 2021 5:00 PM - 6:00 PM ET

> Faculty Neeraj Agarwal, MD



Meet The Professor Optimizing the Clinical Management of Hodgkin and Non-Hodgkin Lymphomas

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Loretta J Nastoupil, MD



Meet The Professor Optimizing the Selection and Sequencing of Therapy for Patients with Advanced Gastrointestinal Cancers

Friday, September 17, 2021 12:00 PM – 1:00 PM ET

Faculty

Philip A Philip, MD, PhD, FRCP



Meet The Professor

Optimizing the Selection and Sequencing of Therapy for Patients with HER2-Positive Breast Cancer

Wednesday, September 22, 2021 5:00 PM - 6:00 PM ET

Faculty
Sara M Tolaney, MD, MPH



Thank you for joining us!

CME credit information will be emailed to each participant within 3 business days.



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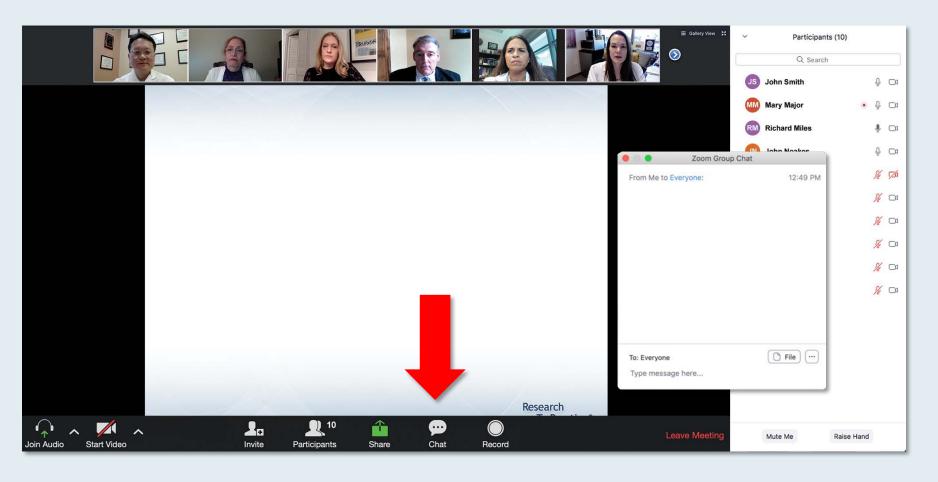
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ex	periences an as	Pomalidomide +/- dexamethasone	ical relapse?		John Noakes	₽ 🗅
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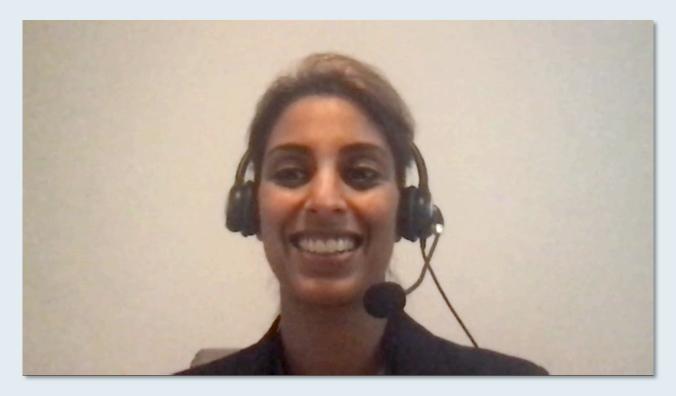
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Agenda

Introduction: Tumor Board Discussions Since ASCO 2021?

Module 1: Immunotherapy in Surgically Resectable Non-Small Cell Lung Cancer

- Case: A 62-year-old woman with Stage IIA lung adenocarcinoma PD-L1-negative, pan-wild type
- Case: A 56-year-old man with Stage IIA squamous NSCLC PD-L1 15%
- Case: A 90-year-old man with Stage IB lung adenocarcinoma PD-L1 10%
- Key relevant data sets

Module 2: Adjuvant Treatment of NSCLC with a Driver Mutation

- Case: A 68-year-old man with Stage III lung adenocarcinoma PD-L1 <1%, EGFR L858R mutation
- Case: A 49-year-old woman with Stage IIIA lung adenocarcinoma PD-L1 50%, ALK mutation
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May 2020

Adjuvant Chemotherapy

Jessica A. Hellyer, MD, Heather A. Wakelee, MD*

KEYWORDS

Adjuvant
 Chemotherapy
 Targeted agents

KEY POINTS

- Standard of care for resectable, early-stage lung cancer is 4 cycles of adjuvant chemotherapy.
- Chemotherapy regimens have equitable efficacy, although in practice platinum plus pemetrexed is
 used most often for nonsquamous non-small cell lung cancer (NSCLC) due to favorable toxicity
 profile, with recent support for this approach from the JIPANG trial.
- Adjuvant immunotherapy is under investigation and discussed separately.
- Targeted therapies currently are not standard-of-care adjuvant treatment in driver mutationpositive early-stage NSCLC, but several trials are under way examining their use.



10 in the Surgically Resectable Patient

Jamie E. Chaft, MD

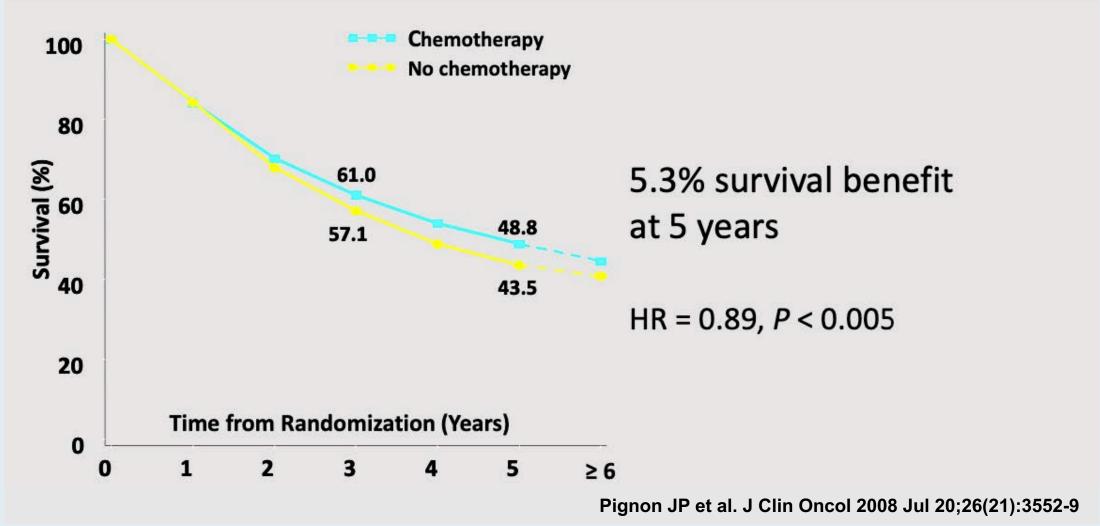
Memorial Sloan Kettering Cancer Center

USA



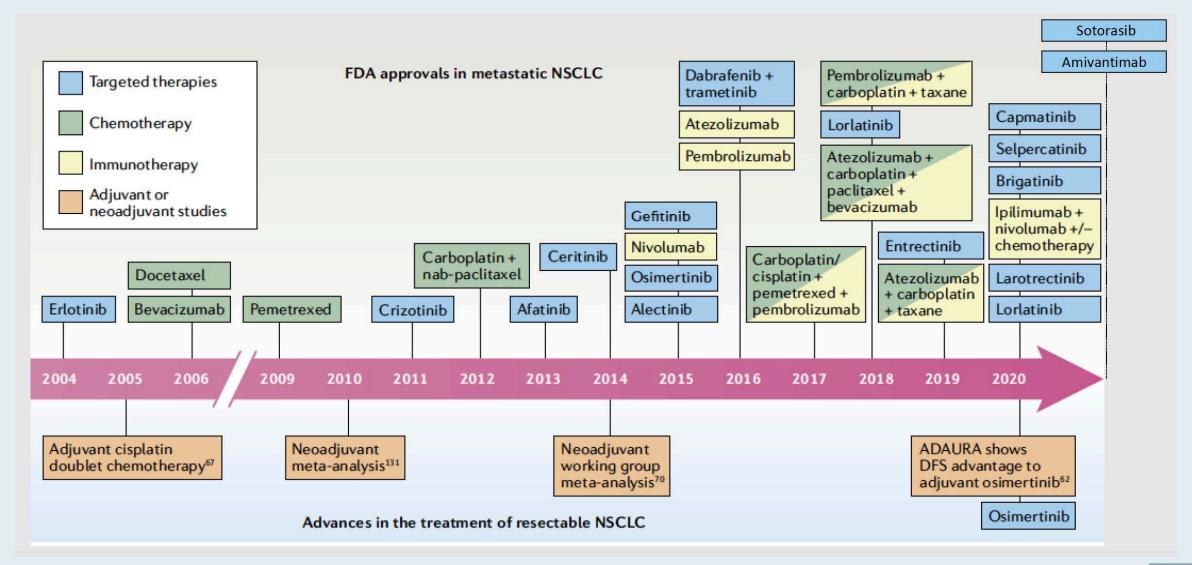


We need to move beyond perioperative chemotherapy...





Chasing Progress in Metastatic NSCLC





What about adjuvant IO?



- >4,650 patients enrolled
- All studies enrolled after SOC chemo
- All studies enrolled irrespective of PD-L1, however subsets planned
- Only 1 study powered for OS



Ongoing Adjuvant PD-1/PD-L1 IO trials

Drug/Trial	Description	Stages entered	Description	Primary endpoint
Nivolumab	US, NCI (ECOG), Observational control	IB (4cm)-IIIA After Adj Chemo +/- radiation	Phase 3 Allows PD-L1 +/-	OS/DFS
Atezolizumab	Global, Placebo controlled	IB (4cm)-IIIA After Adj Chemo	Phase 3 Allows PD-L1 +/-	DFS
Durvalumab	Global, Placebo controlled	IB (4cm)-IIIA After Adj Chemo	Phase 3 Allows PD-L1 +/-	DFS
Pembrolizumab	nbrolizumab ETOP/EORTC, Placebo Controlled		Phase 3 Allows PD-L1 +/-	DFS







IMpower010: Primary Results of a Phase 3 Global Study of Atezolizumab vs Best Supportive Care After Adjuvant Chemotherapy in Resected Stage IB-IIIA Non-Small Cell Lung Cancer (NSCLC)

Heather A. Wakelee,¹ Nasser Altorki,² Caicun Zhou,³ Tibor Csőszi,⁴ Ihor O. Vynnychenko,⁵ Oleksandr Goloborodko,⁶ Alexander Luft,⁷ Andrey Akopov,⁸ Alex Martinez-Marti,⁹ Hirotsugu Kenmotsu,¹⁰ Yuh-Min Chen,¹¹ Antonio Chella,¹² Shunichi Sugawara,¹³ Fan Wu,¹⁴ Jing Yi,¹⁵ Yu Deng,¹⁵ Mark McCleland,¹⁵ Elizabeth Bennett,¹⁵ Barbara J. Gitlitz,¹⁵ Enriqueta Felip¹⁶

Abstract CT003

Nivolumab + platinum-doublet chemotherapy vs chemotherapy as neoadjuvant treatment for resectable (IB-IIIA) non-small cell lung cancer in the phase 3 CheckMate 816 trial

Patrick M. Forde, ¹ Jonathan Spicer, ² Shun Lu, ³ Mariano Provencio, ⁴ Tetsuya Mitsudomi, ⁵ Mark M. Awad, ⁶ Enriqueta Felip, ⁷ Stephen Broderick, ¹ Julie Brahmer, ¹ Scott J. Swanson, ⁶ Keith Kerr, ⁸ Changli Wang, ⁹ Gene B. Saylors, ¹⁰ Fumihiro Tanaka, ¹¹ Hiroyuki Ito, ¹² Ke-Neng Chen, ¹³ Cecile Dorange, ¹⁴ Junliang Cai, ¹⁴ Joseph Fiore, ¹⁴ Nicolas Girard ¹⁵

Neoadjuvant/Adjuvant Immunotherapy for Curing Nondriver Genes

PD-(L)1 Checkpoint inhibitors:

Neoadjuvant: Improve surgical and pathologic outcomes

Adjuvant: Improve DFS in stage II-IIIA with PD-L1 expression

Becoming new Standard of Care for Early Stage NSCLC without a driver mutation

Likely will lead to improved cure rates



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Case Presentation: A 62-year-old woman with Stage IIA lung adenocarcinoma – PD-L1-negative, pan-wild type



Dr Jarushka Naidoo

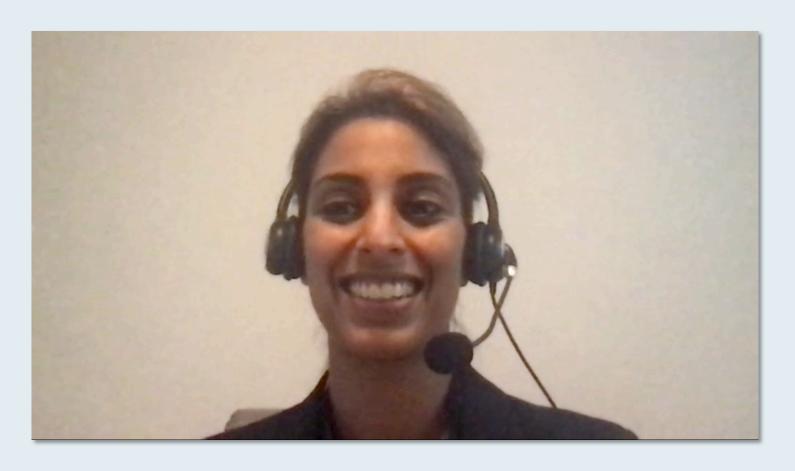
- Incidental finding of a 7-cm right-sided lung mass with no other areas of metastatic disease after she presents to the ER after a motor vehicle accident
- NGS: No actionable mutations; PD-L1 assay: Negative
- Resection → Stage IIA, T3N02a

Questions

- When do you think mature data in terms of overall survival will be available for IMpower010?
- May we use the 22C3 assay for assessing PD-L1 status for patients where administration of atezolizumab is planned?
- Are there any data available on patients who have relapsed after atezolizumab, what are the patterns of relapse? Does administering immunotherapy early change the natural history of lung cancer in some way?



ctDNA as a biomarker for treatment selection



Dr Jarushka Naidoo



Case Presentation: A 56-year-old man with Stage IIA squamous NSCLC – PD-L1 15%

Dr Jarushka Naidoo

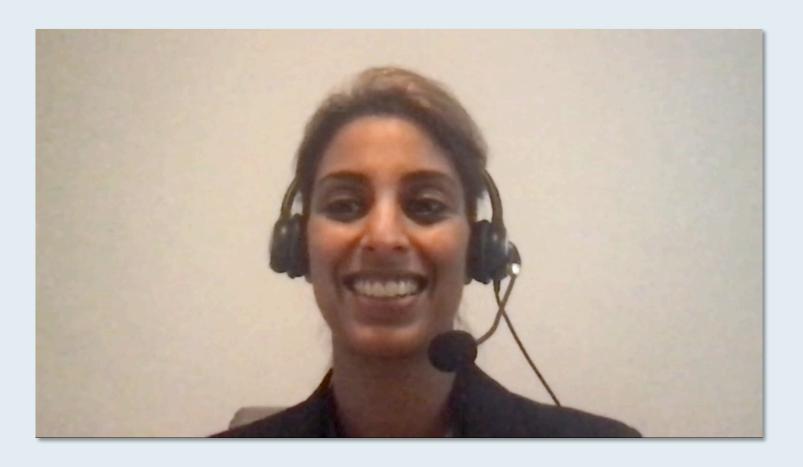
- Smoker who attends a lung cancer screening clinic is found to have a 4-cm right-sided lung mass on non-contrast CT
 - PET-CT identifies an FDG-avid right hilar lymph node, squamous NSCLC
 - Stage IIA, T2bN1
 - PD-L1: 15%

Questions

- Does PD-L1 score matter when deciding between a neoadjuvant and adjuvant approach for a patient? What are the cut-off values?
- What role does TMB play in your decision-making?



Role of surgery after neoadjuvant therapy



Dr Jarushka Naidoo



Case Presentation: A 90-year-old man with Stage IB lung adenocarcinoma – PD-L1 10%



Dr Jarushka Naidoo

- Multiple medical comorbidities, ECOG PS 2
- He undergoes right upper lobe lobectomy for a Stage IB adenocarcinoma
- PD-L1 assay: 10%
- He has a slow postoperative recovery and returns for next appointment 10 weeks later

Questions

- What adjuvant treatment would you have recommended for this patient?
- From IMpower010, what do we know about the efficacy of atezolizumab in the Stage IB patient population?
- For this patient with multiple medical comorbidities in a poor performance status, should we
 think about adapting the algorithm and giving the patient atezolizumab alone and forgoing
 the chemotherapy?



10 in the Surgically Resectable Patient

Considerations for Future Studies

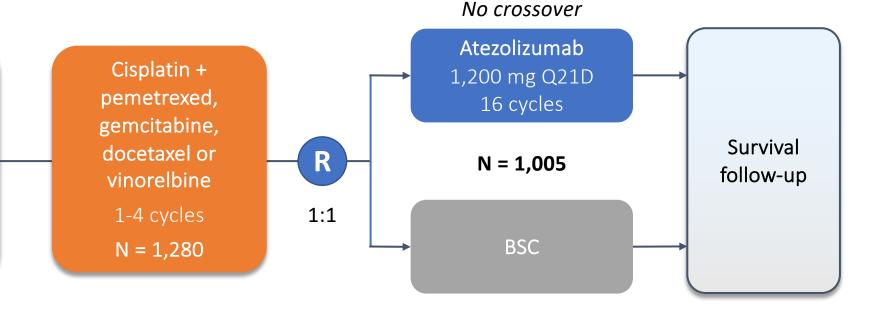
- IO clearly has a role in early-stage lung cancer!
- Adenocarcinoma and Squamous cell carcinoma are different diseases and should be studied separately
- NGS is needed to understand impact of all drivers, not just EGFR and ALK, particularly in the adjuvant setting where time to test is ample
- We need to compare preop IO to postop IO, not default to give both as 4 randomized phase 3 studies are doing



Phase 3 IMpower010 Study: Schema

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

- Stage IB tumors ≥4 cm
- ECOG PS 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

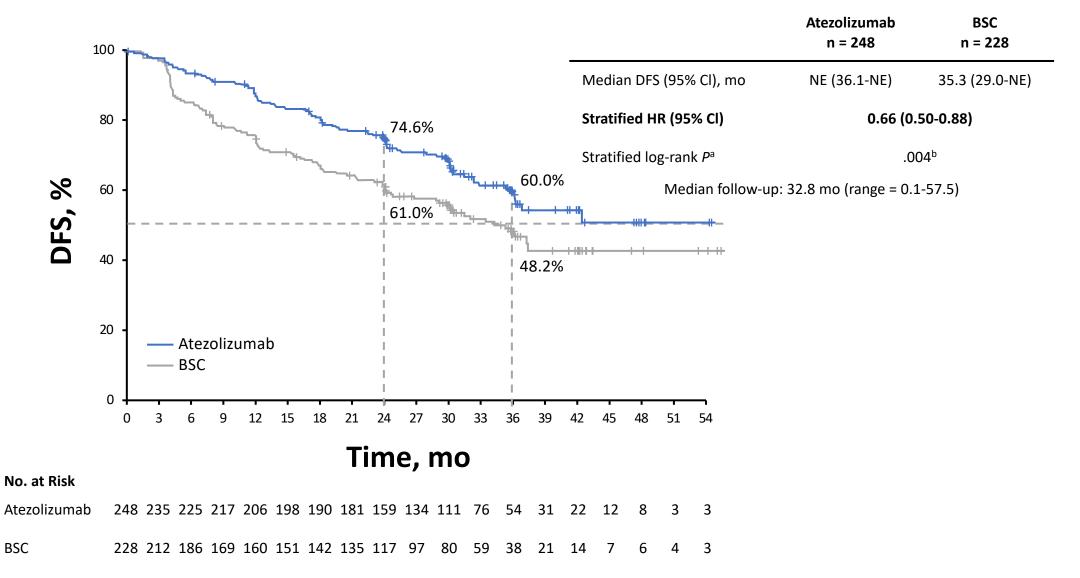
Primary endpoints

- 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)

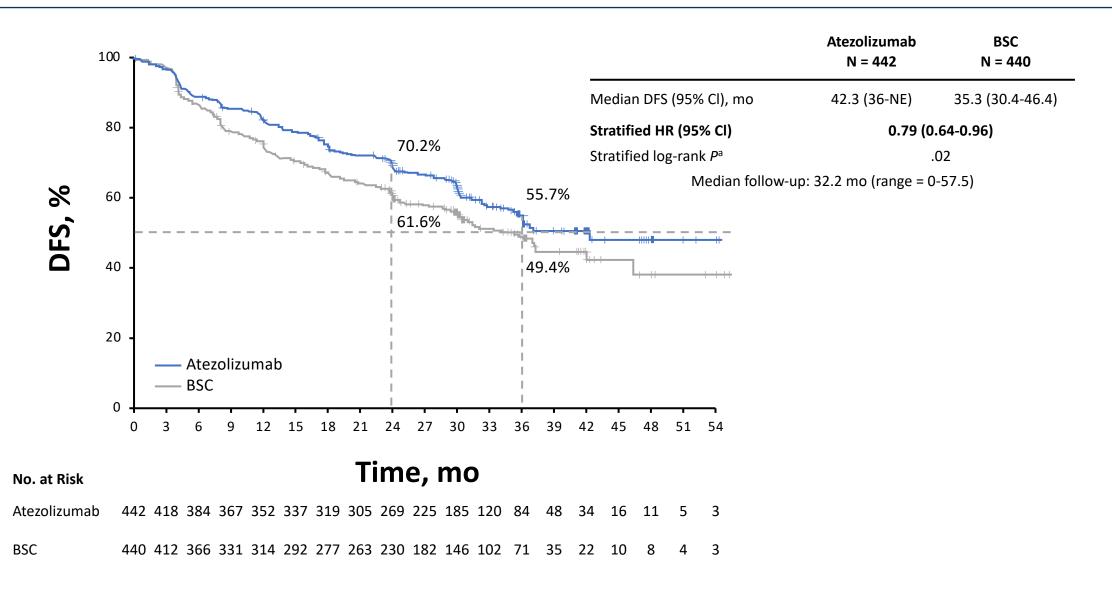
Exploratory endpoints

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

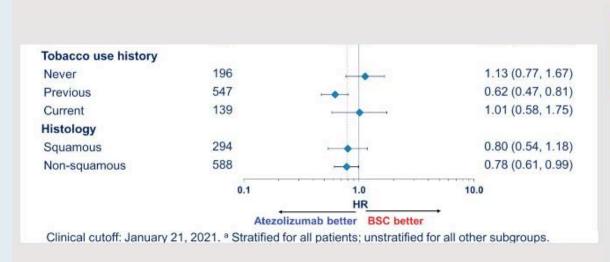
IMpower010: DFS in the PD-L1 TC ≥1% Stage II-IIIA Population (Primary Endpoint)

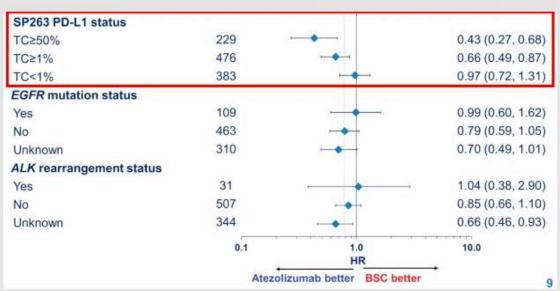


IMpower010: DFS in the All-Randomized Stage II-IIIA Population (Primary Endpoint)



IMpower010: DFS in NSCLC ≥5cm (7th ed. St II-III) Key Subsets





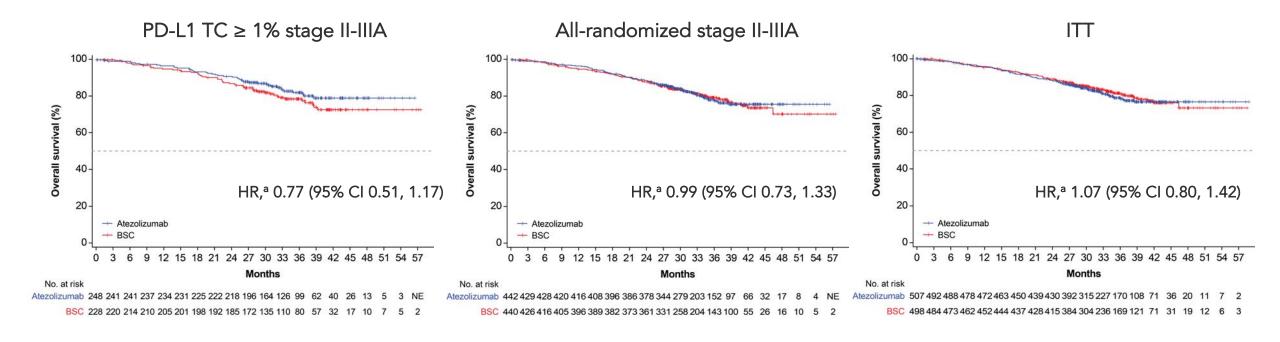
No obvious benefit in:

- Never smokers
- PD-L1 negative
- EGFR/ALK+

Adapted from Wakelee H et al. ASCO 2021; Abstract 8500



IMpower010: early OS data at interim DFS analysis



OS data were immature at this pre-planned DFS interim analysis

OS in the ITT population was not formally tested

A trend toward OS improvement with atezolizumab was seen in the PD-L1 TC ≥1% stage II-IIIA population

IMpower010: Characterization of Stage IB-IIIA NSCLC Patients by Type and Extent of Therapy Prior to Adjuvant Atezolizumab

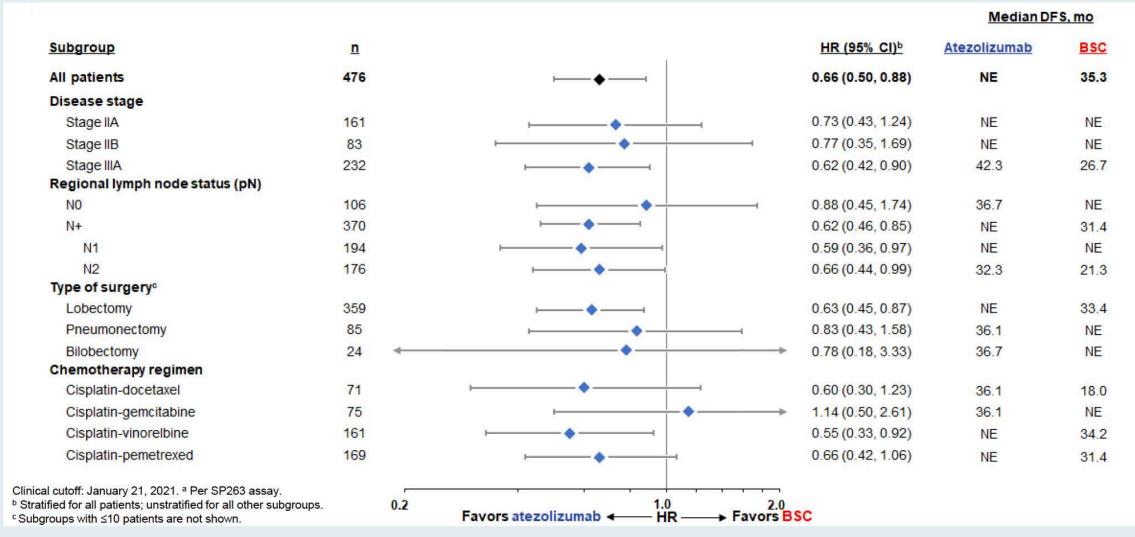
Nasser Altorki,¹ Enriqueta Felip,² Caicun Zhou,³ Eric Vallieres,⁴ Vladimir Moiseyenko,⁵ Alexey Smolin,⁶ Achim Rittmeyer,⁷ Roman Vereshchako,⁸ Maurice Perol,⁹ Wolfgang Schutte,¹⁰ Jian Fang,¹¹ Min Tao,¹² Encarnacao Teixeira,¹³ Young-Chul Kim,¹⁴ Virginia McNally,¹⁵ Fan Wu,¹⁶ Yu Deng,¹⁷ Elizabeth Bennett,¹⁷ Barbara Gitlitz,¹⁷ Heather Wakelee¹⁸

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 Krankenhaus Martha-Maria; Halle-Dolau gGmbH, Halle, Germany;
 Beijing Cancer Hospital, Beijing, China;
 First Affiliated Hospital of Soochow University, Jiangsu, China;
 Centro Hospitalar de Lisboa Norte E.P.E – Hospital Pulido Valente, Lisbon, Portugal;
 Chonnam National University Medical School, and CNU Hwasun Hospital, Jeollanam-do, South Korea;
 F. Hoffmann-La Roche Ltd., Basel, Switzerland;
 Roche (China) Holding Ltd, Shanghai, China;
 Genentech Inc, South San Francisco, CA;
 Stanford University School of Medicine/Stanford Cancer Institute, Stanford, CA



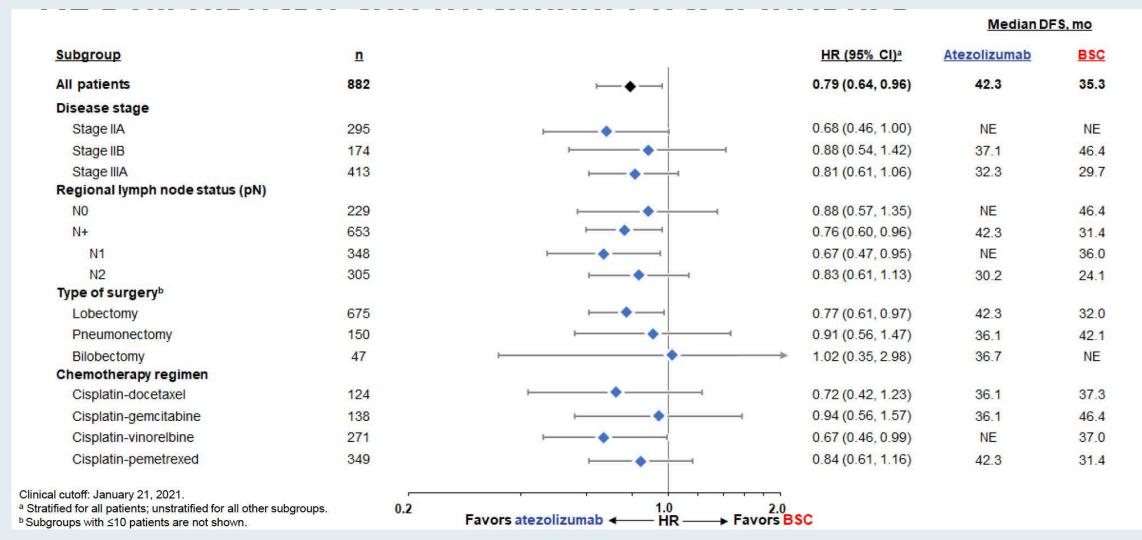


IMpower010: PD-L1 TC ≥1% Stage II-IIIA Population DFS by Disease and Treatment Characteristics



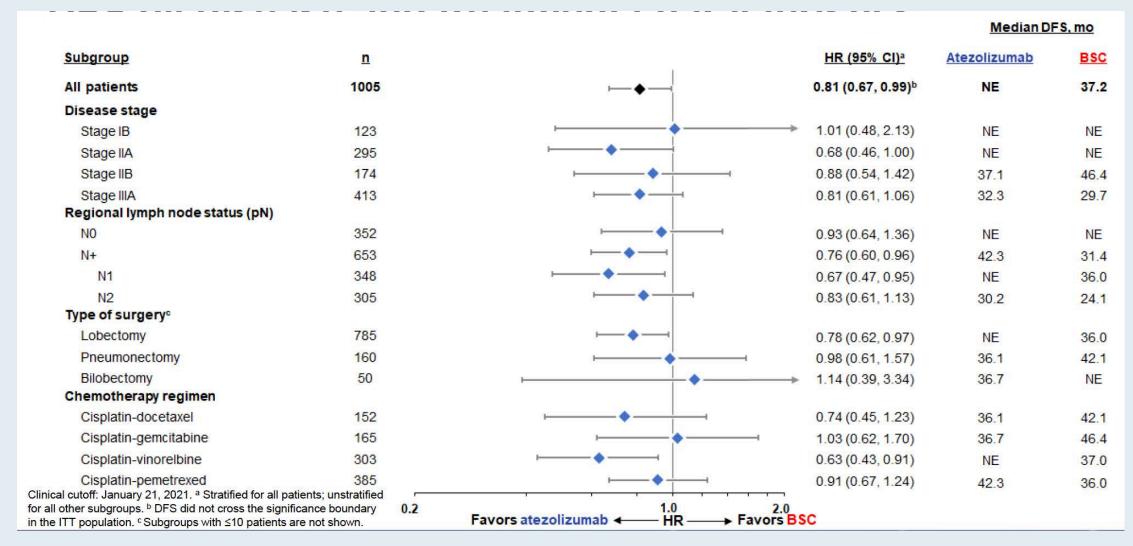


IMpower010: All-Randomized Stage II-IIIA Population DFS by Disease and Treatment Characteristics





IMpower010: ITT (All-Randomized Stage IB-IIIA) Population DFS by Disease and Treatment Characteristics



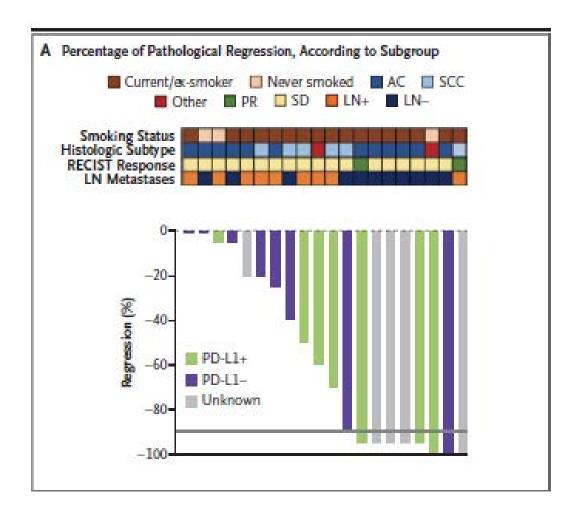


The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Neoadjuvant PD-1 Blockade in Resectable Lung Cancer

P.M. Forde, J.E. Chaft, K.N. Smith, V. Anagnostou, T.R. Cottrell, M.D. Hellmann, M. Zahurak, S.C. Yang, D.R. Jones, S. Broderick, R.J. Battafarano, M.J. Velez, N. Rekhtman, Z. Olah, J. Naidoo, K.A. Marrone, F. Verde, H. Guo, J. Zhang, J.X. Caushi, H.Y. Chan, J.-W. Sidhom, R.B. Scharpf, J. White, E. Gabrielson, H. Wang, G.L. Rosner, V. Rusch, J.D. Wolchok, T. Merghoub, J.M. Taube, V.E. Velculescu, S.L. Topalian, J.R. Brahmer, and D.M. Pardoll

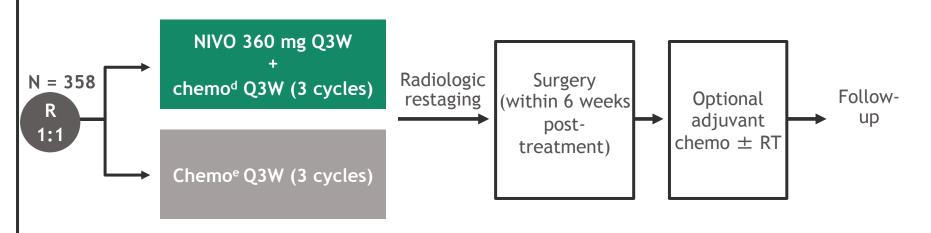


CheckMate 816 Phase III study design

Key eligibility criteria

- Newly diagnosed, resectable, stage IB (≥ 4 cm)-IIIA NSCLC (per TNM 7th edition)
- ECOG PS 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

Key secondary endpoints

- MPR by BIPR
- OS
- Time to death or distant metastases

Key exploratory endpoints included

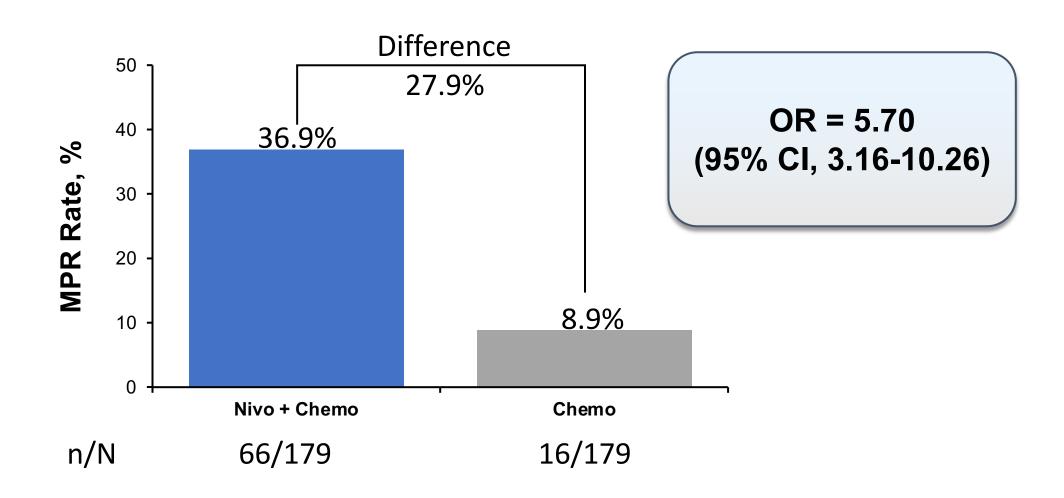
- ORR by BICR
- Feasibility of surgery; peri- and post-operative surgery-related AEs

Database lock: September 16, 2020; minimum follow-up: 7.6 months for NIVO + chemo and chemo arms.

aNCT02998528; this study included an exploratory arm: NIVO 3 mg/kg Q2W (3 cycles) + ipilimumab 1 mg/kg (cycle 1 only). Data from this arm are not included in this presentation; bDetermined by the PD-L1 IHC 28-8 pharmDx assay (Dako); cIncluded patients with PD-L1 expression status not evaluable and indeterminate; dNSQ: pemetrexed + cisplatin or paclitaxel + carboplatin; SQ: gemcitabine + cisplatin or paclitaxel + carboplatin; eVinorelbine + cisplatin, docetaxel + cisplatin, gemcitabine + cisplatin (SQ only), pemetrexed + cisplatin (NSQ only), or paclitaxel + carboplatin.

1. Forde PM, et al. Oral presentation at the AACR Annual Meeting; April 8-10, 2021; virtual. Abstract 5218.

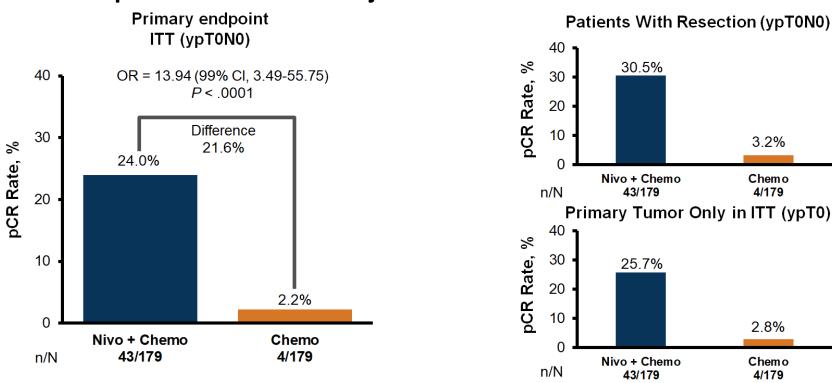
CheckMate 816: MPR Rate in the ITT Population



CheckMate 816: pCR Rate (Primary Endpoint)

- The addition of nivo to chemo increased pCR from 2.2% with chemo alone to 24% with chemo + nivo (P < .0001)
- pCR was assessed by central pathologists who were blinded to trial arms

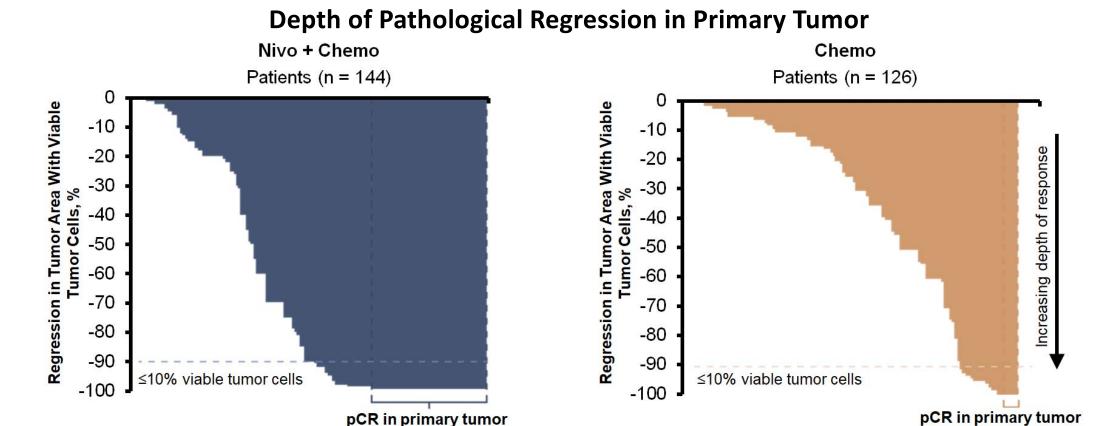
pCR Rate With Neoadjuvant Nivo + Chemo vs Chemo



pCR rate in the exploratory nivo + ipi arm (ITT) was 20.4% (95% Cl, 13.4-29.0)

CheckMate 816: Pathological Regression

• Surgical specimens had a median of 10% residual tumor cells after chemo + nivo vs 74% after chemo alone

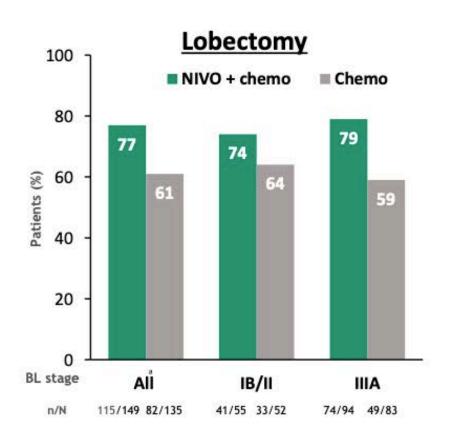


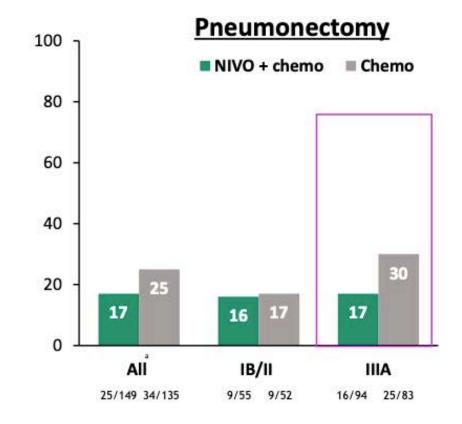
Median viable tumor cells were 10% in the nivo + chemo arm and 74% in the chemo arm

(0% viable tumor cells)

(0% viable tumor cells)

CheckMate 816: Type Of Surgery by Baseline Stage of Disease







Neoadjuvant pembrolizumab for early stage non-small cell lung cancer

<u>Jair Bar</u>¹, Damien Urban¹, Ilanit Redinsky¹, Aliza Ackerstein¹, Sameh Daher¹, Iris Kamer¹, Amir Onn², Tiberiu Shulimzon², Michael Peled², Nona Zeitlin³, Ran Kremer³, Stephen Raskin⁴, Alon Ben-Nun³, Marina Perelman⁵, Efrat Ofek⁵

¹Institute of Oncology, Sheba Medical Center, Tel HaShomer, Ramat Gan, Israel, ²Institute of Pulmonology, Sheba Medical Center, Ramat Gan, Israel, ³Thoracic Surgery, Sheba Medical Center, Ramat Gan, Israel, ⁴Radiology Department, Sheba Medical Center, Ramat Gan, Israel, ⁵Pathology Department, Sheba Medical Center, Ramat Gan, Israel







TRAE grade ≥ 3

Pt. #19

72 yo male, past-light smoker. PMHx: CAF

Myositis grade 3 (day 9)
Myocarditis grade 3 (day 22)

Pt. #29

62 yo female, heavy smoker

Encephalitis grade 3 (day 124)
Hepatitis grade 3 (day 171)

All in the expansion cohort

AE leading to surgery deferral

Pt. #19

72 yo male, past-light smoker. PMHx: CAF

Myositis grade 3 (day 9)
Myocarditis grade 3 (day 22)

Pt. #18

71 yo male, past heavy smoker. PMHx: DM2, HTN, diverticulosis

Myocardial infarct (day 21)

TRAE: treatment-related adverse events. Pt: patient. PMHx: past medical history. CAF: Chronic atrial fibrilation. DM: diabetes melitus type 2. HTN: hypertension.

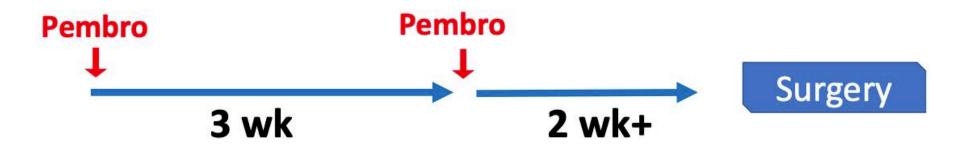


Pathology: remaining viable tumor cells Pathologic Regression 100% 80% Viable Tumor Cells (%) 70% 60% 50% 40% **Major Pathologic Response** 30% Grav bars: Cohort 1 20% Adeno (single pembro dose) Squam 10% Other Study Cohort Smoker Histology Past Smoking Never PDL1 (%) 15 2 0 20 85 65 48 24 35 35 25 28 Pre-Tx diameter (mm) 17 29 12 22 74 26 47 50 51 25 23 11 39 36 29 40 29 Blue: less than median Tx-Sx interval (days)



Recommended Phase 2 Dose/Schedule

- No DLT in the escalation cohorts
- MPR was observed only in patients with a time interval from treatment initiation to surgery ≥ 5 weeks
- Recommended dose/schedule:



- Exploratory: among the patients treated by this dose/schedule (n=16)
 - MPR 44% (7 of 16)
 - pCR 19% (3 of 16)



TAKE HOME MESSAGES

- Neoadjuvant Pembrolizumab was safe, with an 8% rate of grade 3-4 TRAE, with no apparent relation to treatment-surgery interval
- Outcome in the entire study cohort:
 - 27% rate of MPR (7 of 26)
 - 12% rate of pCR (3 of 26)
- Longer interval from treatment to surgery was associated with higher rate of MPR
- Two doses of neoadjuvant pembrolizumab at a three-week interval, followed by surgery at two weeks or later, is the RP2D/S
- Exploratory look at the patients treated by the RP2D/S reveals:
 - MPR 44% (7 of 16)
 - pCR 19% (3 of 16)



Ongoing Phase 3 NEO-Adj PD-(L)1 NSCLC IO

Drug	N	Stages	Description	Primary Endpoint
Nivo + platinum Chemo (ipi/nivo closed) CheckMate 816	350	Stage IB–IIIA, resectable NSCLC	Neo-adjuvant, no adjuvant	mpr / rfs
Atezo + platinum Chemo IMpower030	374	Stage II–IIIB (T3N2), resectable NSCLC	Neo-adjuvant chemo-ICI, then adjuvant IO	MPR / RFS
Pembro + platinum- doublet Chemo KEYNOTE-671	786	Stage IIB–IIIA, resectable NSCLC	Neo-adjuvant chemo-ICI then adjuvant IO	RFS / OS
Durva + platinum- doublet Chemo	300	Stage II–IIIA, resectable NSCLC	Neo-adjuvant chemo-ICI then adjuvant IO	MPR



Agenda

Introduction: Tumor Board Discussions Since ASCO 2021? Module 1: Immunotherapy in Surgically Resectable Non-Small Cell Lung Cancer

- Case: A 62-year-old woman with Stage IIA lung adenocarcinoma PD-L1-negative, pan-wild type
- Case: A 56-year-old man with Stage IIA squamous NSCLC PD-L1 15%
- Case: A 90-year-old man with Stage IB lung adenocarcinoma PD-L1 10%
- Key relevant data sets

Module 2: Adjuvant Treatment of NSCLC with a Driver Mutation

- Case: A 68-year-old man with Stage III lung adenocarcinoma PD-L1 <1%, EGFR L858R mutation
- Case: A 49-year-old woman with Stage IIIA lung adenocarcinoma PD-L1 50%, ALK mutation
- Key relevant data sets



Case Presentation: A 68-year-old man with Stage III lung adenocarcinoma – PD-L1 <1%, EGFR L858R mutation

- S/p resection of a right hilar lesion and mediastinal lymph node dissection, which revealed a 5-cm lung adenocarcinoma with involvement of station 4R lymph nodes
- Stage III, pT2aN2
- PD-L1 assay: < 1%
- NGS: EGFR L858R mutation

Question

What treatment approach would you recommended for this patient?



Dr Jarushka Naidoo



Case Presentation: A 68-year-old man with Stage III lung adenocarcinoma – PD-L1 <1%, EGFR L858R mutation (continued)

- S/p resection of a right hilar lesion and mediastinal lymph node dissection, which revealed a 5-cm lung adenocarcinoma with involvement of station 4R lymph nodes
- Stage III, pT2aN2
- PD-L1 assay: < 1%
- NGS: EGFR L858R mutation

Questions

- What treatment approach would you recommended for this patient?
- Would postoperative radiotherapy have been appropriate for this patient?



Dr Jarushka Naidoo



Case Presentation: A 49-year-old woman with Stage IIIA lung adenocarcinoma – PD-L1 50%, ALK mutation



Dr Jarushka Naidoo

- Never smoker who presents to PCP with sudden onset dyspnea and is diagnosed with Stage IIIA, T2bN2 NSCLC
- NGS: ALK rearrangement
- PD-L1 assay: 50%
- Tumor is deemed resectable by the thoracic surgeon

Question

- What treatment option would you recommend for this patient?
- How do you interpret the PD-L1 score in a patient who is also positive for an ALK rearrangement?
- In light of the PACIFIC trial, what is your perspective on whether or not Stage III disease should undergo resection?



The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

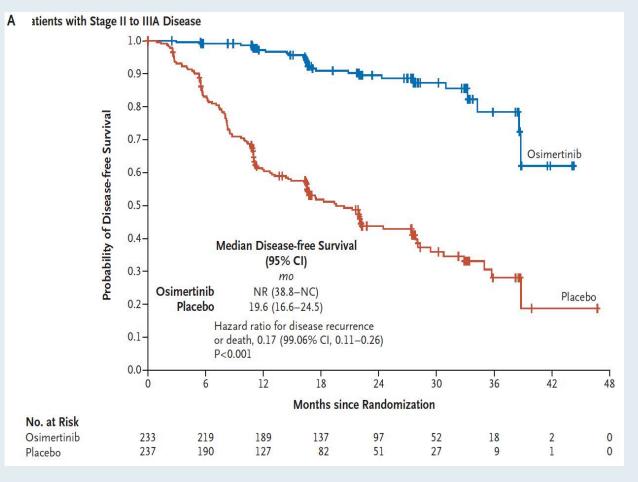
Osimertinib in Resected EGFR-Mutated Non–Small-Cell Lung Cancer

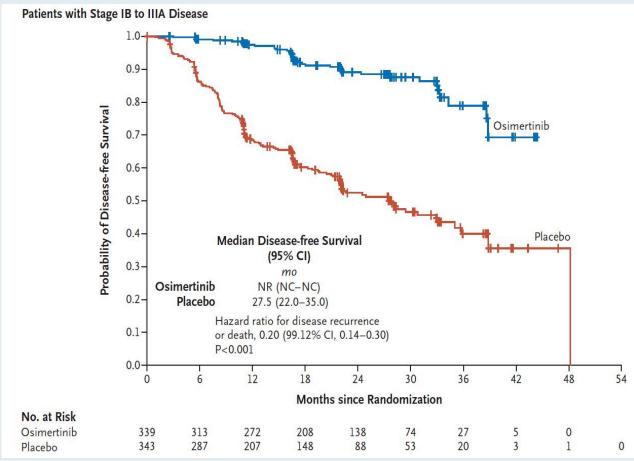
Yi-Long Wu, M.D., Masahiro Tsuboi, M.D., Jie He, M.D., Thomas John, Ph.D., Christian Grohe, M.D., Margarita Majem, M.D., Jonathan W. Goldman, M.D., Konstantin Laktionov, Ph.D., Sang-We Kim, M.D., Ph.D., Terufumi Kato, M.D., Huu-Vinh Vu, M.D., Ph.D., Shun Lu, M.D., Kye-Young Lee, M.D., Ph.D., Charuwan Akewanlop, M.D., Chong-Jen Yu, M.D., Ph.D., Filippo de Marinis, M.D., Laura Bonanno, M.D., Manuel Domine, M.D., Ph.D., Frances A. Shepherd, M.D., Lingmin Zeng, Ph.D., Rachel Hodge, M.Sc., Ajlan Atasoy, M.D., Yuri Rukazenkov, M.D., Ph.D., and Roy S. Herbst, M.D., Ph.D.,

N Engl J Med 2020;383(18):1711-23.



ADAURA: Disease-Free Survival by Stage







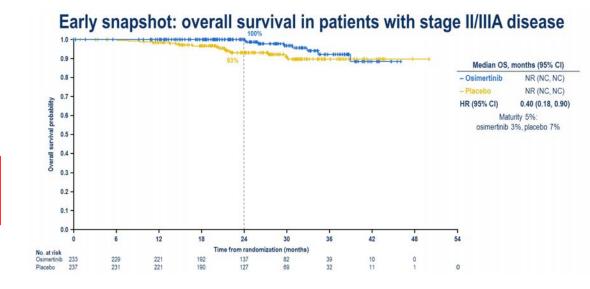
ADAURA: Adjuvant Osimertinib in Resected Stage IB-IIIA EGFR+ NSCLC

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%

DFS benefit increases consistently with stage



*OS remains very immature (5% maturity)



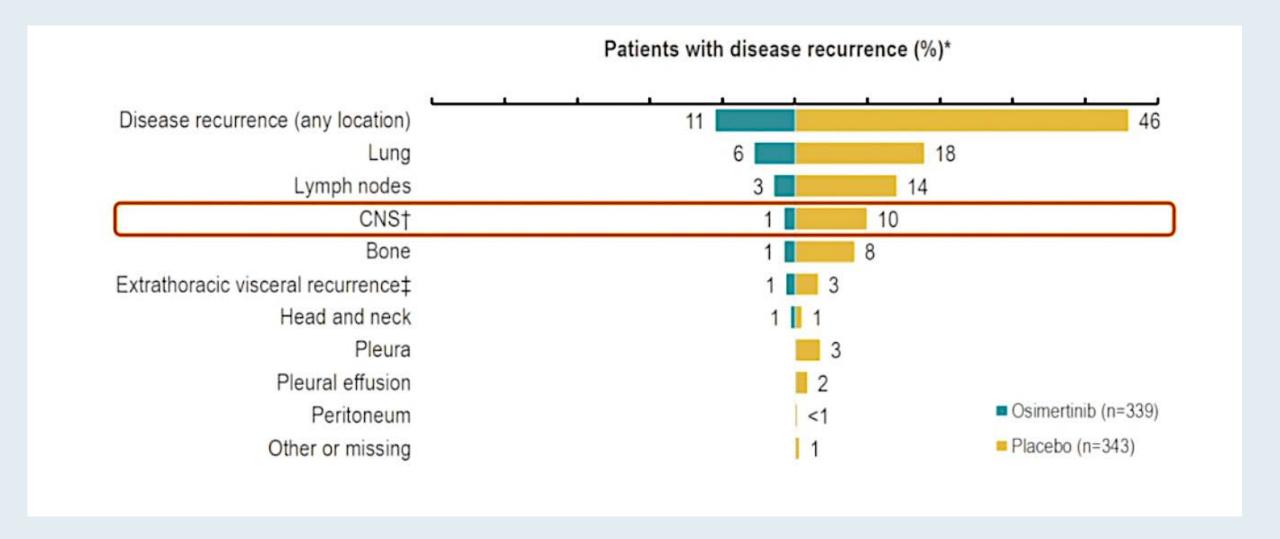
Osimertinib Adjuvant Therapy in Patients (pts) with Resected EGFR Mutated (EGFRm) NSCLC (ADAURA): Central Nervous System (CNS) Disease Recurrence

Tsuboi M et al.

ESMO 2020; Abstract LBA1.



ADAURA: Sites of Disease Recurrence





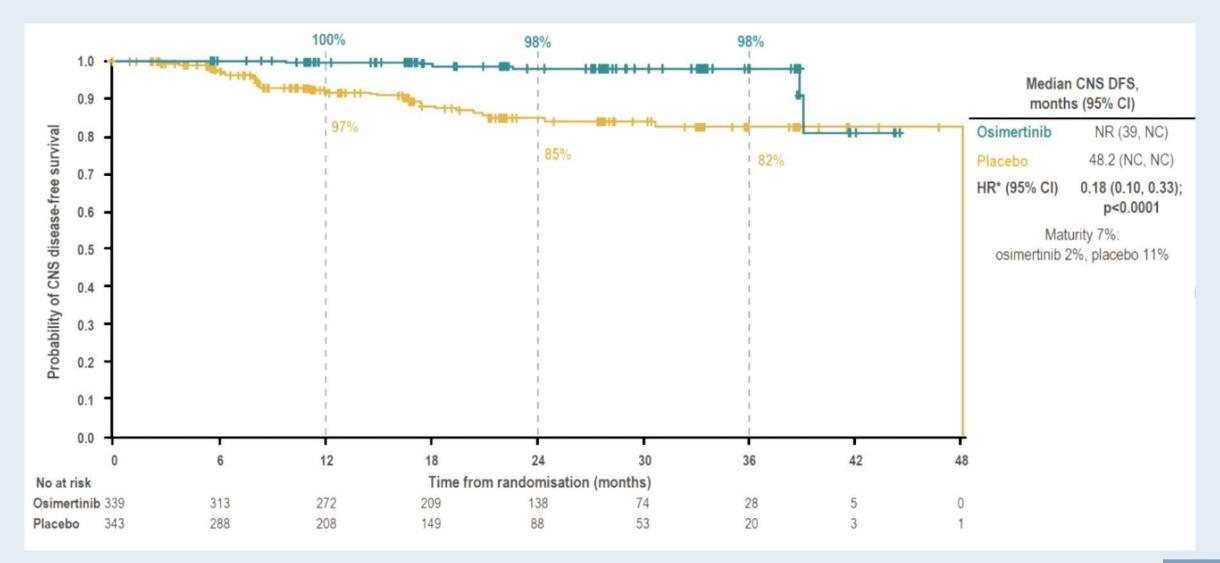
ADAURA: CNS DFS Events

Overall, 45 patients (osimertinib n=6, placebo n=39) had CNS DFS events

	Overall po	Overall population		
Patients, n (%)	Osimertinib n=339	Placebo n=343		
CNS DFS events:	6 (2%)	39 (11%)		
CNS recurrence	4 (1%)	33 (10%)		
Death	2 (1%)	6 (2%)		



ADAURA: CNS DFS in Overall Population





5-YEAR SURVIVAL OUTCOMES WITH DURVALUMAB AFTER CHEMORADIOTHERAPY IN UNRESECTABLE STAGE III NSCLC – AN UPDATE FROM THE PACIFIC TRIAL

David R. Spigel,¹ Corinne Faivre-Finn,² Jhanelle E. Gray,³ David Vicente,⁴ David Planchard,⁵ Luis Paz-Ares,⁶ Johan F. Vansteenkiste,⁷ Marina C. Garassino,^{8,9} Rina Hui,¹⁰ Xavier Quantin,¹¹ Andreas Rimner,¹² Yi-Long Wu,¹³ Mustafa Özgüroğlu,¹⁴ Ki H. Lee,¹⁵ Terufumi Kato,¹⁶ Maike de Wit,¹⁷ Euan Macpherson,¹⁸ Michael Newton,¹⁹ Piruntha Thiyagarajah,²⁰ Scott J. Antonia³

¹Sarah Cannon Research Institute/Tennessee Oncology, Nashville, Tennessee, USA; ²The University of Manchester and The Christie NHS Foundation Trust, Manchester, UK; ³H. Lee Moffitt Cancer Center and Research Institute, Tampa, Florida, USA; ⁴Hospital Universitario Virgen Macarena, Seville, Spain; ⁵Department of Medical Oncology, Thoracic Unit, Gustave Roussy, Villejuif, France; ⁶Universidad Complutense, CiberOnc, CNIO and Hospital Universitario 12 de Octubre, Madrid, Spain; 7University Hospitals KU Leuven, Leuven, Belgium; ⁶Fondazione IRCCS Istituto Nazionale dei Tumori, Milan, Italy; ⁶Department of Hematology/Oncology, The University of Chicago, Chicago, Illinois, USA; ¹¹Westmead Hospital and the University of Sydney, Sydney, NSW, Australia; ¹¹Montpellier Cancer Institute (ICM) and Montpellier Cancer Research Institute (IRCM), INSERM U1194, University of Montpellier, Montpellier, France; ¹²Department of Radiation Oncology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ¹³Department of Pulmonary Oncology, Guangdong Lung Cancer Institute, Guangdong Provincial People's Hospital & Guangdong Academy of Medical Sciences, Guangzhou, China; ¹⁴Istanbul University − Cerrahpaşa, Cerrahpaşa School of Medicine, Istanbul, Turkey; ¹⁵Chungbuk National University Hospital, Chungbuk National University College of Medicine, Cheongju, Republic of Korea; ¹⁶Kanagawa Cancer Center, Yokohama, Japan; ¹∀Vivantes Klinikum Neukölln, Berlin, Germany; ¹⁶AstraZeneca, Macclesfield, UK; ¹⁶AstraZeneca, Gaithersburg, MD, USA; ²⁰AstraZeneca, Cambridge, UK

June 4th, 2021 ASCO 2021; Abstract 8511

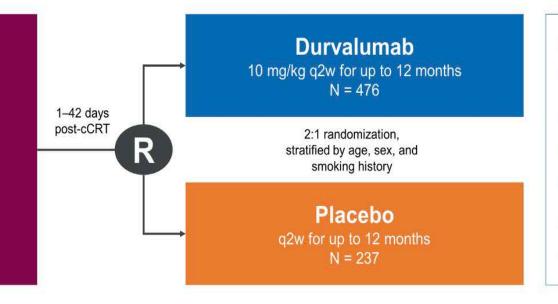


PACIFIC: Study Design

- Unresectable Stage III NSCLC without progression after definitive platinum-based cCRT* (≥2 cycles)
- · 18 years or older
- WHO PS score 0 or 1
- If available, archived pre-cCRT tumor tissue for PD-L1 testing[†]

Patients enrolled irrespective of PD-L1 status

N = 713 randomized



Primary endpoints

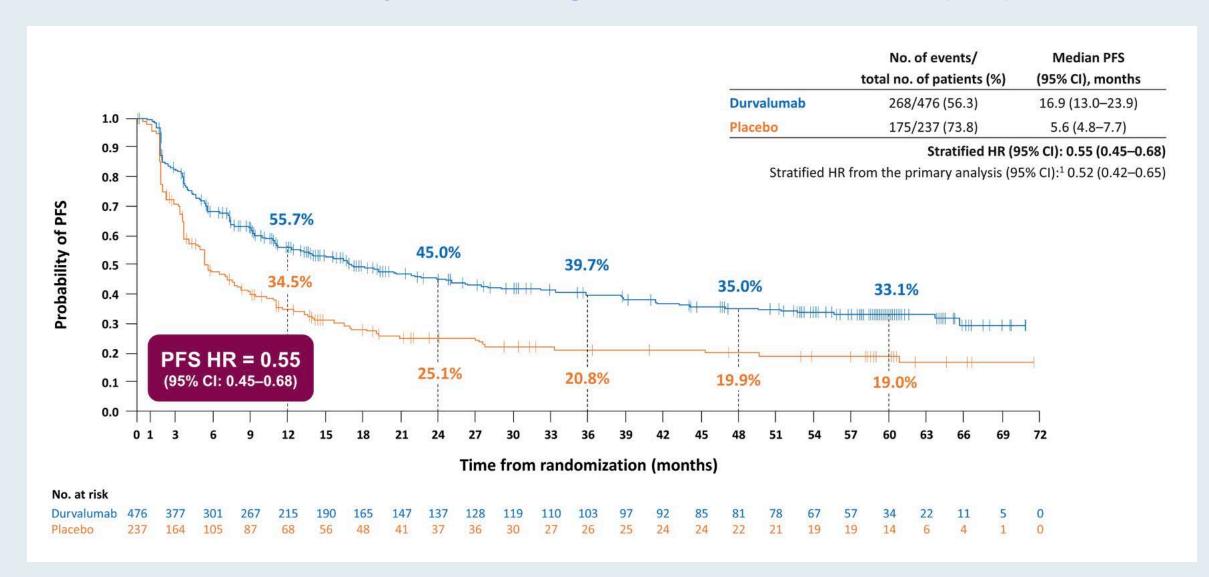
- PFS (BICR) using RECIST v1.1[‡]
- · OS

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

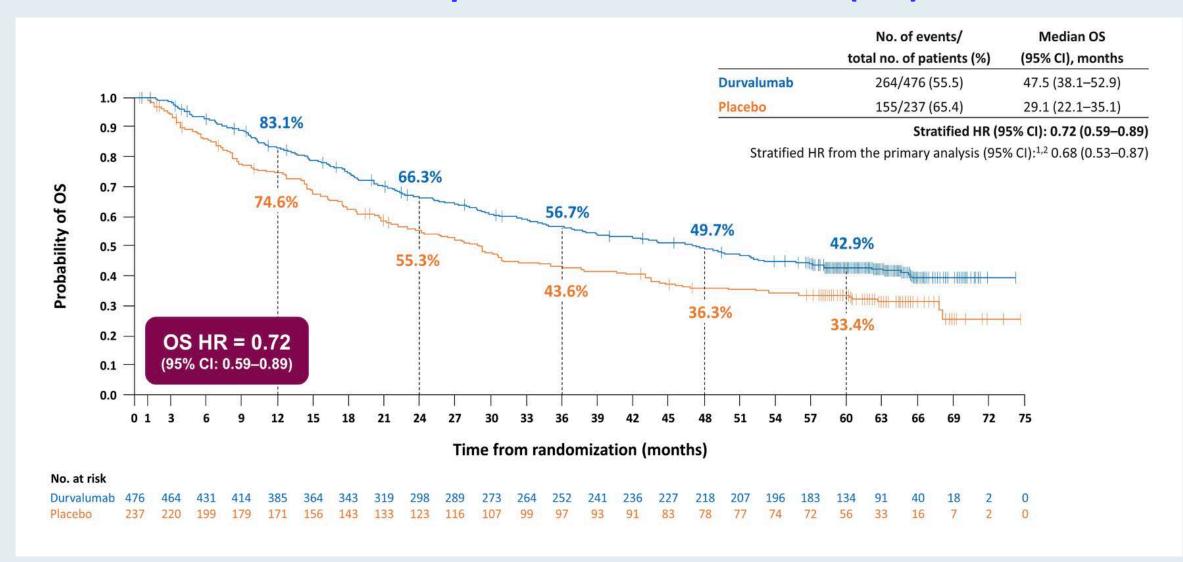


PACIFIC: Updated Progression-Free Survival (ITT)



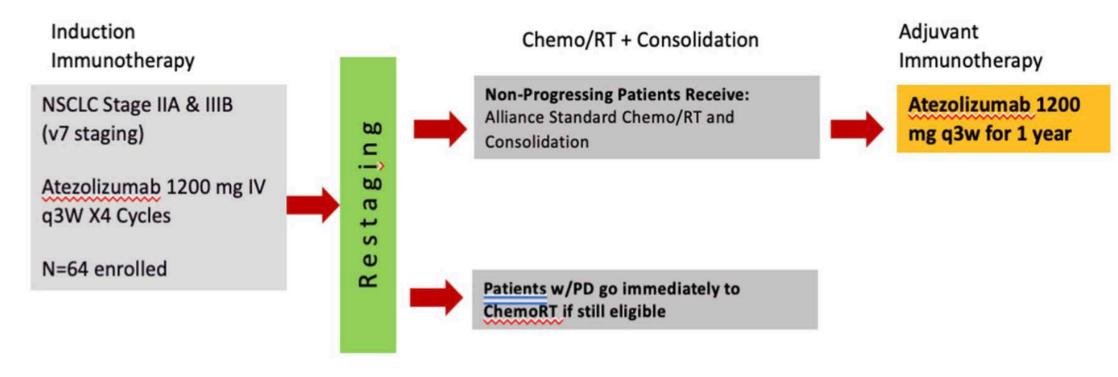


PACIFIC: Updated Overall Survival (ITT)





AFT-16 Phase II Trial

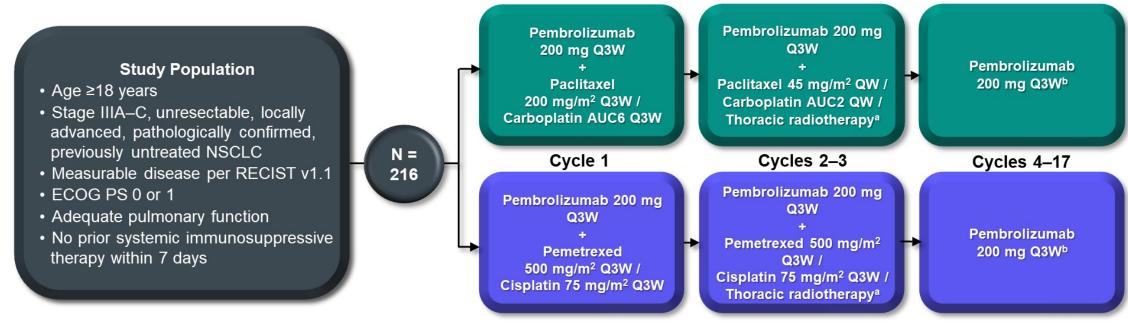


- Median PFS = 23.7 mo
- OS at 18 mo = 84%
- 1 pt each with Gr 3 pneumonitis/pneumonia/colitis, Gr 4 Guillain Barre
- PFS 12 and 18 mo from end CRT was 78% and 72% vs 56% and 44% in PACIFIC

KEYNOTE-799 Phase II Trial

KEYNOTE-799 (NCT03631784)

COHORT A (Squamous and Nonsquamous NSCLC)



Primary Objectives

- ORR per RECIST v1.1 by BICR
- Patients who develop grade ≥3 pneumonitis

Secondary Objectives

PFS per RECIST v1.1 by BICR, OS, safety

COHORT B (Nonsquamous NSCLC Only)

Statistical Analysis Details

Efficacy and safety assessed in all patients as-treated

AUC, area under the concentration-time curve; BICR, blinded independent central review.

a60 Gy in 30 daily 2-Gy fractions. bTreatment continued until cycle 17 was completed or until documented disease progression, unacceptable AEs, intercurrent illness that prevents further administration of treatment, or study withdrawal. Pembrolizumab therapy was discontinued permanently in patients who develop grade ≥3 or recurrent grade 2 pneumonitis.

KEYNOTE-799

Efficacy Outcomes

Total Population	Cohort A (Squamous and Nonsquamous) n = 112		Cohort B (Nonsquamous) n = 102	
ORR, % (95% CI)	70.5 (61.2–78.8)		70.6 (60.7–79.2)	
CR	4 (3.6)		5 (4.9)	
PR	75 (67.0)		67 (65.7)	
SD	20 (17.9)		23 (22.5)	
PD	1 (0.9)		0	
Not evaluable ^a /No assessment ^b	2 (1.8) / 10 (8.9)		0 / 7 (6.9)	
DOR, median (range), ^c mo	NR (1.7+ to 19.7+)		NR (1.8+ to 21.4+)	
DOR ≥12 mo, ^c %	79.7		75.6	
PFS, ^c median (95% CI), mo	NR (16.6–NR)		NR (NR-NR)	
12-mo PFS rate, %	67.1		71.6	
OS, ^c median (95% CI), mo	NR (NR-NR)		NR (21.9–NR)	
12-mo OS rate, %	81.3		87.0	
PD-L1 Status	TPS <1% (n = 21)	TPS ≥1% (n = 66)	TPS <1% (n = 28)	TPS ≥1% (n = 40)
ORR, n (%)	14 (66.7)	50 (75.8)	20 (71.4)	29 (72.5)
Histology	Nonsquamous (n = 39)	Squamous (n = 73)	Nonsquamous (n = 102)	Squamous (n = 0)
ORR, n (%)	27 (69.2)	52 (71.2)	72 (70.6)	NA

DOR, duration of response; NR, not reached; TPS, tumor proportion score. "+" indicates no PD by the time of last disease assessment.

aPostbaseline assessment available but not evaluable or CR/PR/SD <6 weeks from first dose. bNo postbaseline assessment available for response evaluation. Kaplan-Meier estimate. Data cutoff date: October 28, 2020.

First-in-Class Registrational Clinical Trial of Sugemalimab Met Its Primary Endpoint for Stage III NSCLC and Plans to Submit a New Drug Application

Press Release – May 28, 2021

"The registrational clinical trial (GEMSTONE-301 study) of the anti-PD-L1 monoclonal antibody sugemalimab in patients with stage III NSCLC met its primary endpoint at a planned interim analysis reviewed by the independent Data Monitoring Committee. The findings showed that sugemalimab as a consolidation therapy brought statistically significant and clinically meaningful improvement in the Blinded Independent Central Review assessed PFS in patients with locally advanced/unresectable NSCLC without disease progression after concurrent or sequential chemoradiotherapy. Investigator assessed PFS showed consistent results as those of the primary endpoint. Sugemalimab was well-tolerated with no new safety signals. Subgroup analyses demonstrated that sugemalimab was associated with clinical benefit regardless of whether patients received concurrent or sequential chemoradiotherapy prior to sugemalimab."



What Urologists Want To Know: Addressing Current Questions and Controversies in the Management of Bladder Cancer

A Virtual CME Satellite Symposium During the American Urological Association (AUA) 2021 Annual Meeting

Monday, September 13, 2021 11:00 AM – 12:30 PM ET

Faculty

Arjun Balar, MD
Ashish M Kamat, MD, MBBS
Guru Sonpavde, MD
Robert Svatek, MD

Moderator Neil Love, MD



Thank you for joining us!

CME credit information will be emailed to each participant within 3 business days.

