

**Thank you for joining us.
The program will commence momentarily.**

Current Questions and Controversies in the Management of Lung Cancer

An Interactive Meet The Professor Series

Leora Horn, MD, MSc

Ingram Associate Professor of Cancer Research
Director, Thoracic Oncology Research Program
Assistant Vice Chairman for Faculty Development
Vanderbilt University Medical Center
Nashville, Tennessee

Commercial Support

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Dr Love — Disclosures

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Dr Horn — Disclosures

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Upcoming Live Webinars

**Wednesday, August 19, 2020
12:00 PM – 1:00 PM ET**

**Clinical Investigator
Perspectives on the Current
and Future Management of
Multiple Myeloma**

Faculty

Noopur Raje, MD

Moderator

Neil Love, MD

**Thursday, August 20, 2020
5:00 PM – 6:00 PM ET**

**Clinical Investigator Perspectives
on the Current and Future Role of
PARP Inhibition in the
Management of Ovarian Cancer**

Faculty

Don S Dizon, MD

Moderator

Neil Love, MD

Upcoming Live Webinars

Friday, August 21, 2020
12:00 PM – 1:00 PM ET

**Optimizing the Selection and
Sequencing of Therapy for
Patients with Chronic
Lymphocytic Leukemia**

Faculty

Brad S Kahl, MD

Moderator

Neil Love, MD

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**Current Questions and
Controversies in the
Management of Lung Cancer**

Faculty

Lecia V Sequist, MD, MPH

Moderator

Neil Love, MD

**Friday, August 28, 2020
12:00 PM – 1:00 PM ET**

**Exploring the Role of Immune
Checkpoint Inhibitor Therapy
and Other Novel Strategies in
Gynecologic Cancers**

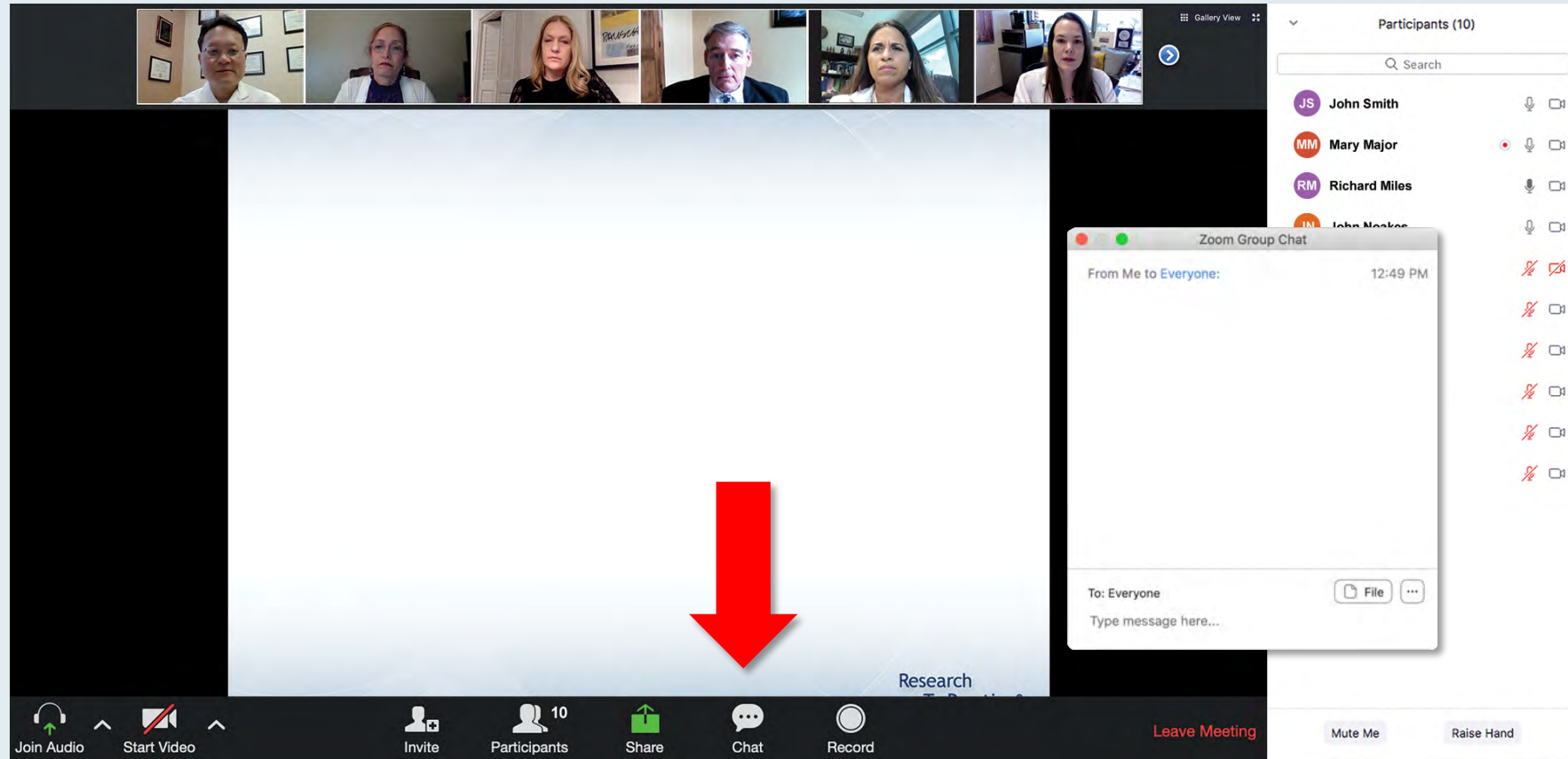
Faculty

Michael J Birrer, MD, PhD

Moderator

Neil Love, MD

We Encourage Clinicians in Practice to Submit Questions



Feel free to submit questions now before the program commences and throughout the program.

Familiarizing yourself with the Zoom interface

How to answer poll questions

The screenshot displays a Zoom meeting interface. At the top, a gallery view shows six participants. The main screen displays a poll question: "What is your usual treatment recommendation for a patient with MM who has relapsed within 12 months followed by ASCT and experiences an asymptomatic relapse?" Below the question is a "Quick Poll" menu with a list of treatment options. A list of 10 participants is shown on the right side of the screen. The bottom toolbar includes icons for Join Audio, Start Video, Invite, Participants (10), Share, Chat, Record, and a red "Leave Meeting" button.

Quick Poll

- ☐ Carfilzomib +/- dexamethasone
- ☐ Pomalidomide +/- dexamethasone
- ☐ Carfilzomib + pomalidomide +/- dexamethasone
- ☐ Elotuzumab + lenalidomide +/- dexamethasone
- ☐ Elotuzumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + lenalidomide +/- dexamethasone
- ☐ Daratumumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + bortezomib +/- dexamethasone
- ☐ Ixazomib + Rd
- ☐ Other

Participants (10)

Initials	Name	Audio	Video
JS	John Smith	<input type="checkbox"/>	<input type="checkbox"/>
MM	Mary Major	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RM	Richard Miles	<input type="checkbox"/>	<input type="checkbox"/>
JN	John Noakes	<input type="checkbox"/>	<input type="checkbox"/>
AS	Alice Suarez	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
JP	Jane Perez	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RS	Robert Stiles	<input checked="" type="checkbox"/>	<input type="checkbox"/>
JF	Juan Fernandez	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AK	Ashok Kumar	<input checked="" type="checkbox"/>	<input type="checkbox"/>
JS	Jeremy Smith	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Co-provided by USF Health Research To Practice®

When a poll question pops up, click your answer choice from the available options.
Results will be shown after everyone has answered.

Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 5 days.

ONCOLOGY TODAY

WITH DR NEIL LOVE



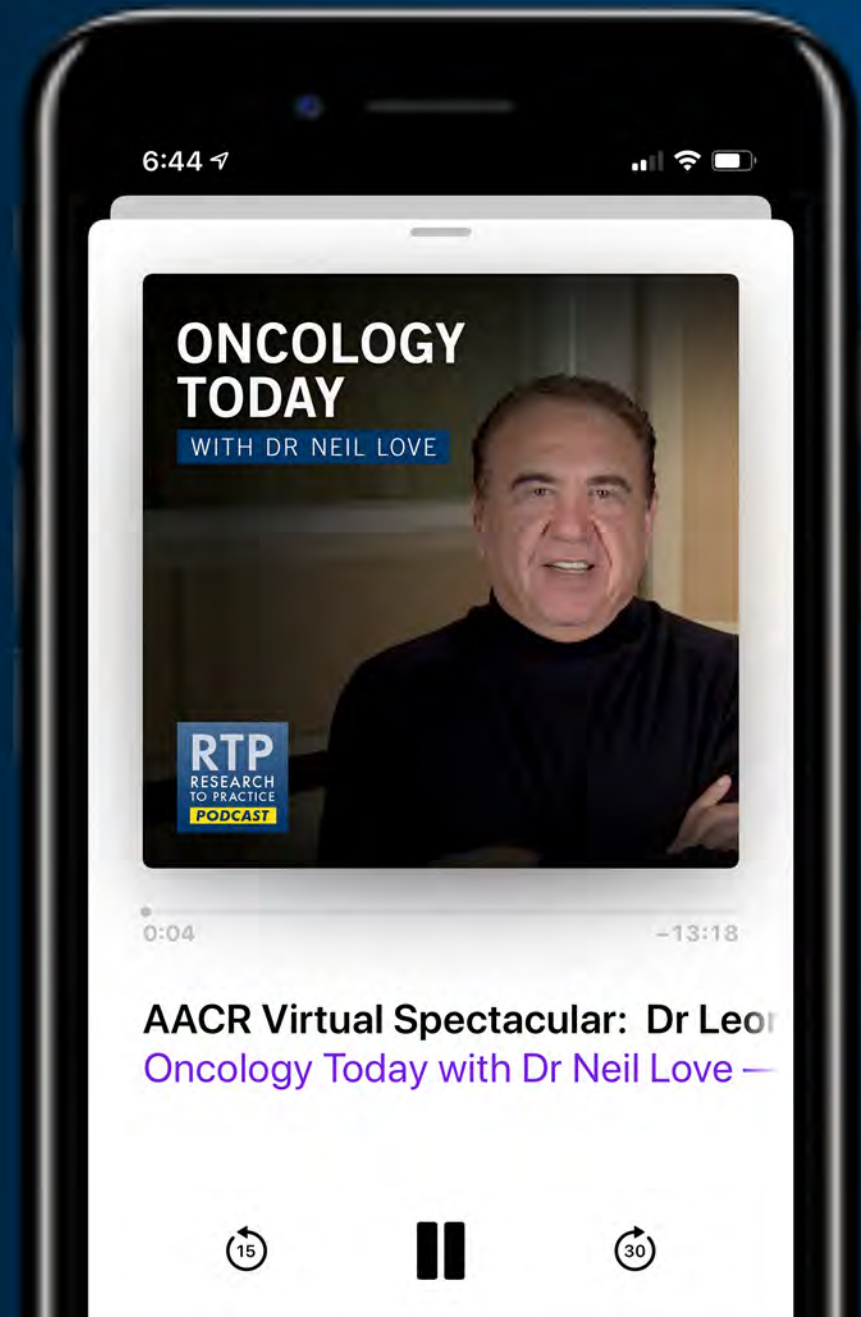
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Meet The Professor Program Participating Faculty



John V Heymach, MD, PhD

Professor and Chair
Thoracic/Head and Neck Medical Oncology
The University of Texas
MD Anderson Cancer Center
Houston, Texas



Corey J Langer, MD

Director of Thoracic Oncology
Abramson Cancer Center
Professor of Medicine
Perelman School of Medicine
University of Pennsylvania
Philadelphia, Pennsylvania



Leora Horn, MD, MSc

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Assistant Vice Chairman for
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Medical Center
Nashville, Tennessee



Benjamin Levy, MD

Associate Professor
Johns Hopkins School of Medicine
Clinical Director
Medical Director, Thoracic
Oncology Program
Johns Hopkins Sidney Kimmel
Cancer Center at Sibley Memorial
Washington, DC

Meet The Professor Program Participating Faculty



Joel W Neal, MD, PhD

Associate Professor of Medicine
Division of Oncology
Department of Medicine
Stanford Cancer Institute
Stanford University
Palo Alto, California



Lecia V Sequist, MD, MPH

Director, Center for Innovation in Early
Cancer Detection
Massachusetts General Hospital Cancer Center
The Landry Family Associate Professor of Medicine
Harvard Medical School
Boston, Massachusetts



Nathan A Pennell, MD, PhD

Professor, Hematology and
Medical Oncology
Cleveland Clinic Lerner College
of Medicine of Case Western
Reserve University
Director, Cleveland Clinic Lung
Cancer Medical Oncology Program
Cleveland, Ohio



David R Spigel, MD

Chief Scientific Officer
Program Director
Lung Cancer Research
Sarah Cannon Research Institute
Nashville, Tennessee

Meet The Professor Program Moderator



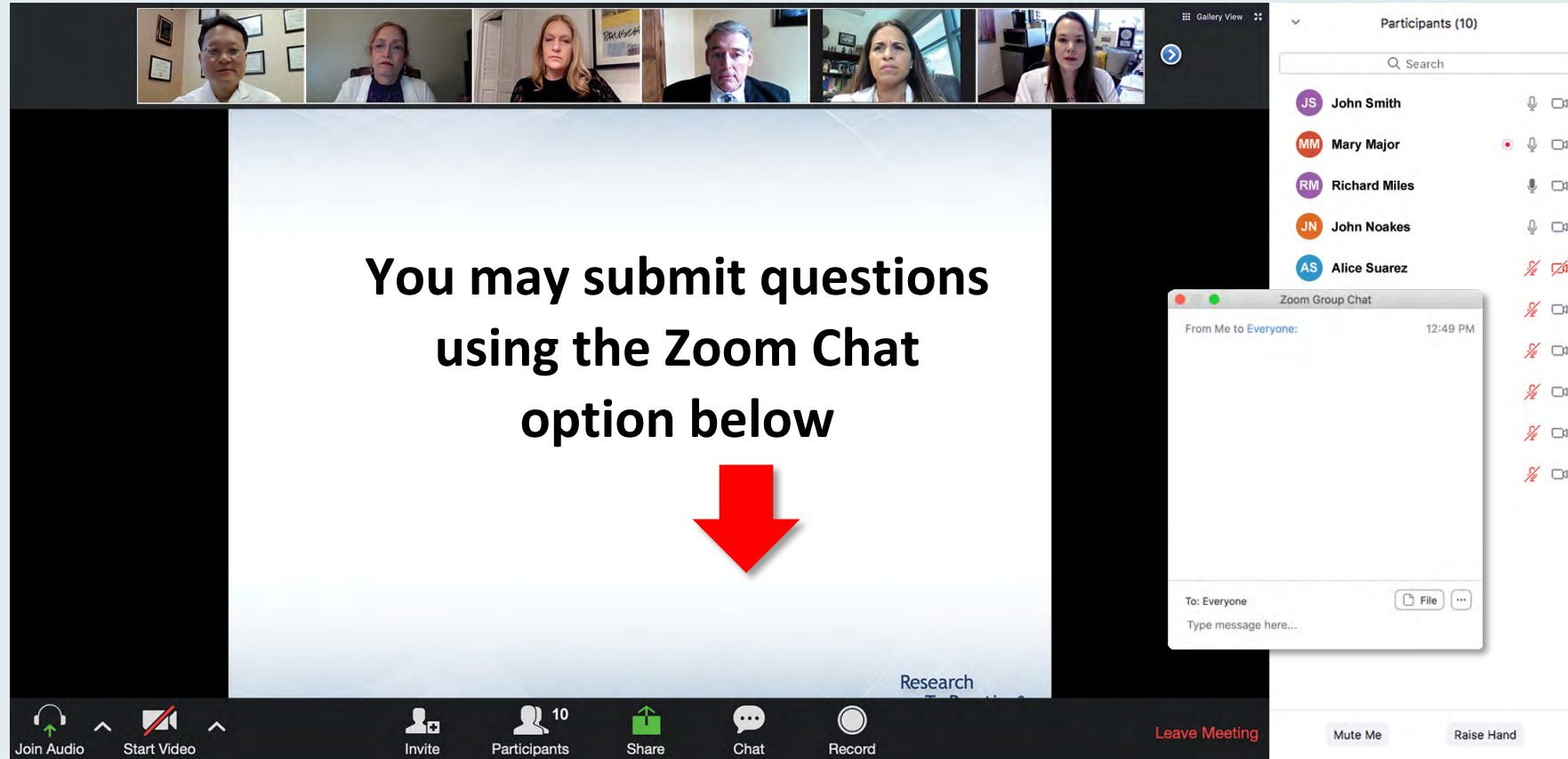
Project Chair

Neil Love, MD

Research To Practice

Miami, Florida

We Encourage Clinicians in Practice to Submit Questions



The screenshot displays a Zoom meeting interface. At the top, a gallery view shows six participants. The main screen displays a presentation slide with the text: "You may submit questions using the Zoom Chat option below". A large red arrow points downwards from this text. On the right side, a "Participants (10)" list is visible, showing names like John Smith, Mary Major, Richard Miles, John Noakes, and Alice Suarez. Below the participants list, a "Zoom Group Chat" window is open, showing a message from "Me to Everyone" at 12:49 PM. The bottom toolbar includes icons for "Join Audio", "Start Video", "Invite", "Participants", "Share", "Chat", "Record", and "Leave Meeting".

Feel free to submit questions now before the program commences and throughout the program.

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Quick Poll

What is your usual treatment recommendation for a patient with MM followed by ASCT and maintenance experiences an as...

1. Carfilzomib +/- dexamethasone

2. Pomalidomide +/- dexamethasone

3. Carfilzomib + pomalidomide +/- dexamethasone

4. Elotuzumab + pomalidomide +/- dexamethasone

5. Elotuzumab + pomalidomide +/- dexamethasone

6. Daratumumab + pomalidomide +/- dexamethasone

7. Daratumumab + pomalidomide +/- dexamethasone

8. Daratumumab + bortezomib +/- dexamethasone

9. Ixazomib + Rd

10. Other

Co-provided by USF Health Research To Practice®

Participants (10)

Name	Audio	Video
JS John Smith	On	On
MM Mary Major	On	On
RM Richard Miles	On	On
JN John Noakes	On	On
AS Alice Suarez	Off	Off
JP Jane Perez	Off	Off
RS Robert Stiles	Off	Off
JF Juan Fernandez	Off	Off
AK Ashok Kumar	Off	Off
JS Jeremy Smith	Off	Off

When a poll question pops up, click your answer choice from the available options. Results will be shown after everyone has answered.

ONCOLOGY TODAY

WITH DR NEIL LOVE



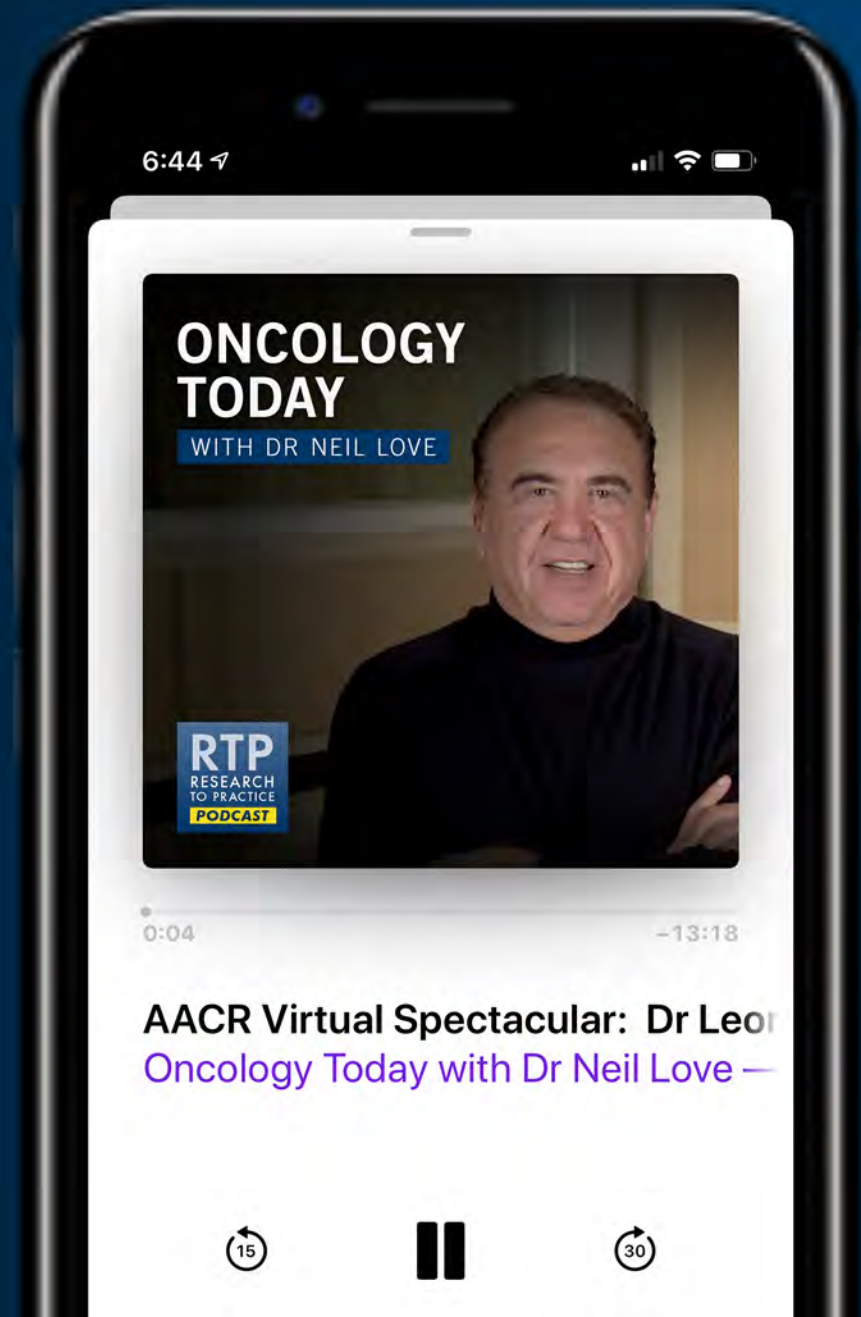
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Contributing Oncologists



Matthew Gubens, MD, MS

Associate Professor, Thoracic Medical Oncology
University of California, San Francisco
San Francisco, California



Sulfi Ibrahim, MD

Hematology/Oncology
Reid Health
Richmond, Indiana



Neil Morganstein, MD

Hematology Oncology
Atlantic Health System
Summit, New Jersey

Meet The Professor with Dr Horn

Module 1: Management of Metastatic NSCLC with an EGFR Tumor Mutation

- A 67-year-old woman with metastatic adenocarcinoma of the lung – Dr Ibrahim

Module 2: Anti-PD-1/PD-L1 Antibodies Alone or in Combinations for Metastatic NSCLC

- A 59-year-old man with metastatic squamous cell carcinoma of the lung – Dr Morganstein
- A 72-year-old man with metastatic adenocarcinoma of the lung – Dr Morganstein

Module 3: First-Line Treatment of Extensive-Stage Small Cell Lung Cancer

- A 64-year-old man with extensive-stage small cell lung cancer – Dr Ibrahim

Module 4: Checkpoint Inhibition in the Management of Locally Advanced NSCLC

- A 65-year-old man with locally advanced adenocarcinoma of the lung – Dr Gubens

A 67-year-old former light smoker presents with symptomatic metastatic adenocarcinoma of the lung (PD-L1 level 50%). The patient requires urgent treatment but there is not enough tissue for NGS and the liquid biopsy is pending. How would you treat?

1. Pemetrexed/pembrolizumab/carboplatin
2. Pemetrexed
3. Other chemotherapy
4. Other checkpoint inhibitor
5. Other

Case Presentation — Dr Ibrahim: 67-year-old woman with metastatic adenocarcinoma of the lung

67-year-old woman with a very light history of smoking in her 20's presents with progressive dyspnea. Initially treated with antibiotics as an outpatient with worsening symptoms. Eventually admitted to the hospital with worsening dyspnea. Becomes oxygen dependent. Because she has infiltrates on imaging and not a mass, a diagnosis of lung malignancy is not considered for a few days and she has a work-up for other things like vasculitis. Eventually imaging shows bone lesion and oncology is consulted in the hospital. Biopsy done and patient is discharged home on oxygen. Biopsy positive for metastatic pulmonary adenocarcinoma, but tissue is insufficient for NGS.

I have her come in for plasma based NGS. Suggest she hold off on treatment because of strong possibility of finding a driver mutation. She calls me one morning and says she is more symptomatic and cannot hold on anymore. I admit her to the hospital that day and get a therapeutic thoracentesis for her symptoms of dyspnea. I treat her with one dose of Carboplatin and Pemetrexed in the hospital. She feels better and is discharged home the next day. That afternoon the plasma based NGS comes back showing the EGFR L858R mutation, and the next week she is started on osimertinib.



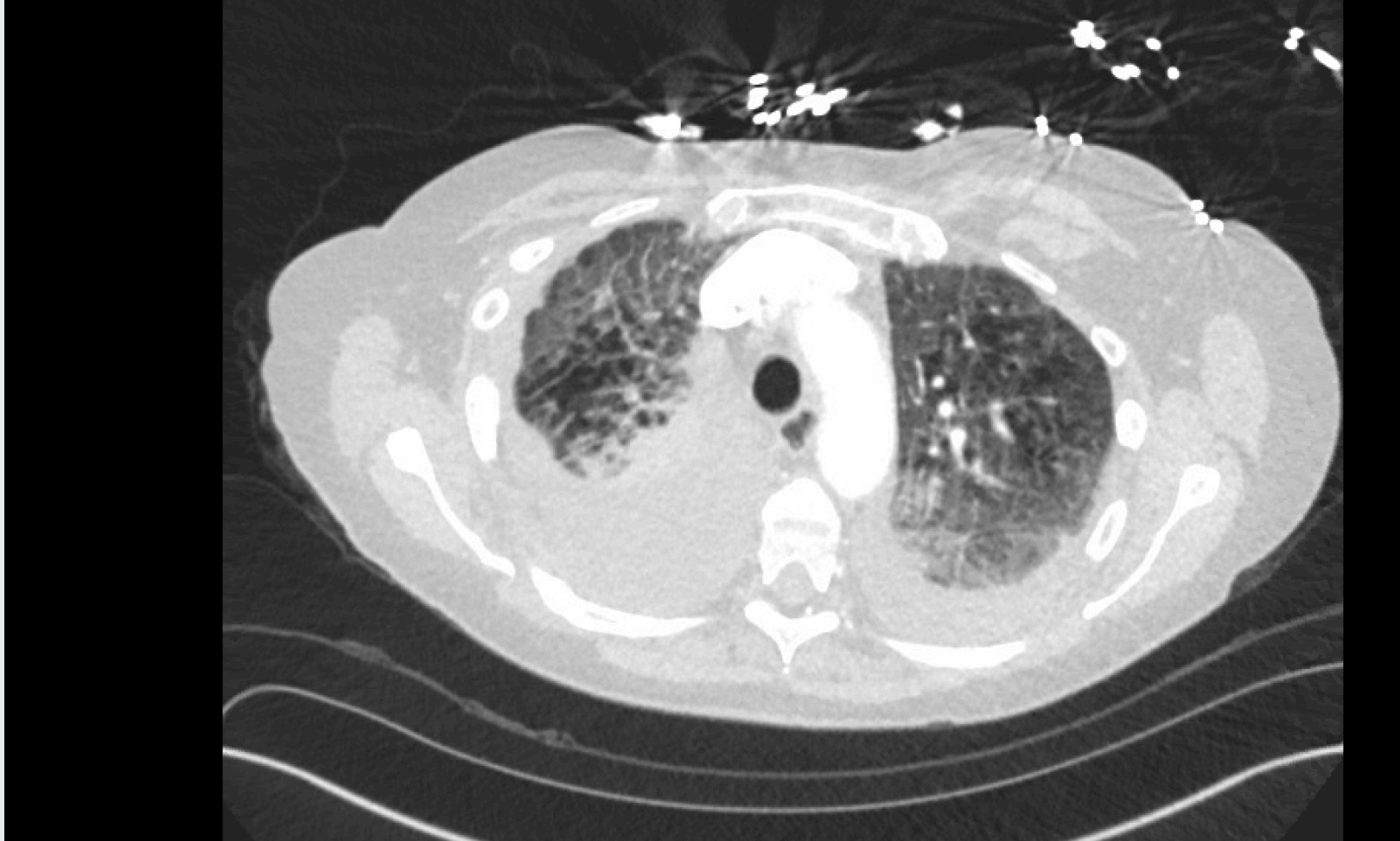
Sulfi Ibrahim, MD

Case Presentation — Dr Ibrahim: 67-year-old woman with metastatic adenocarcinoma of the lung (cont)

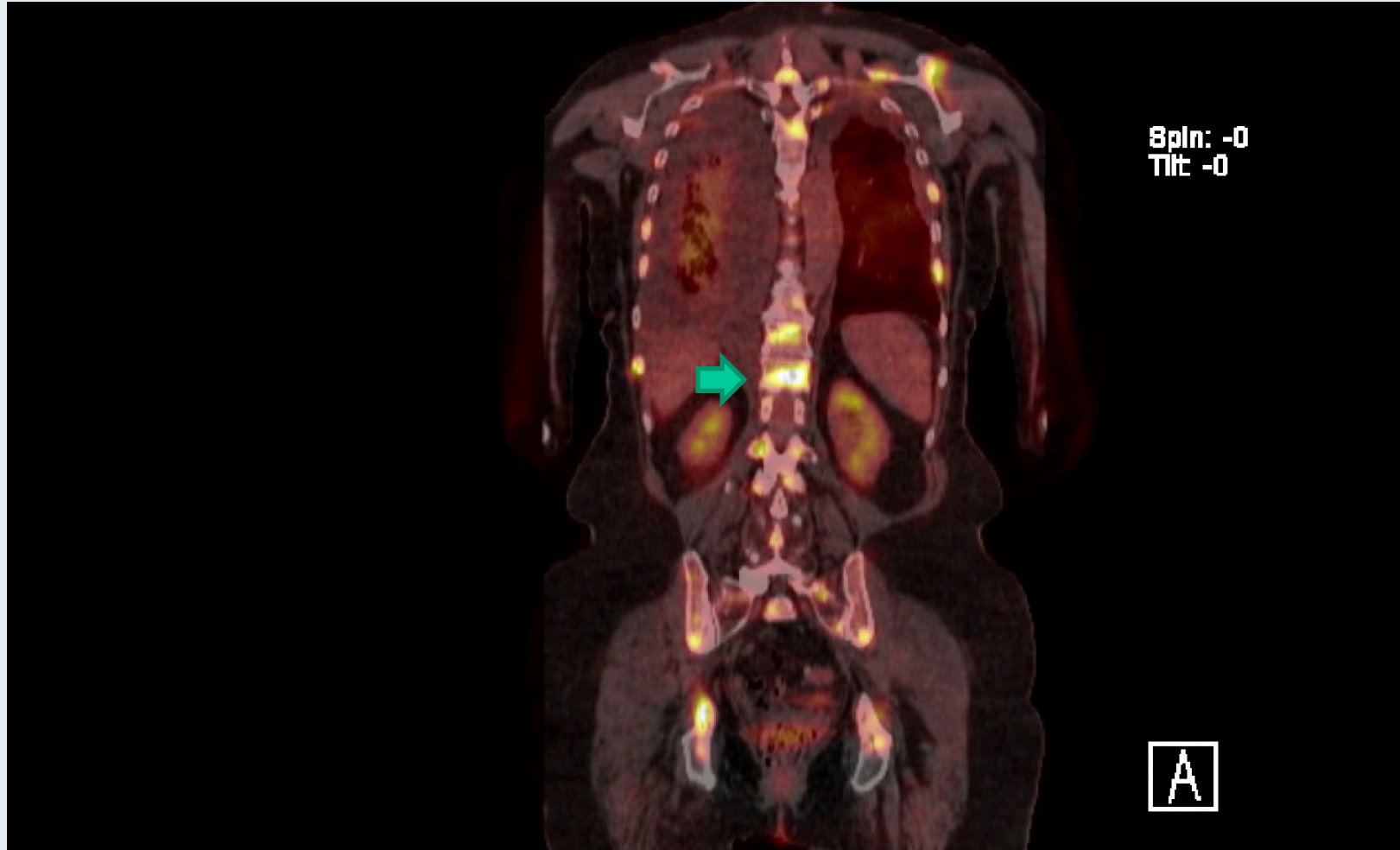
I had a virtual visit with her last week. She is tolerating Osimertinib well and reports she is now barely using her oxygen

Questions are regarding the management of a patient who needs treatment but does not have the time for the NGS to come back. Would you give her bevacizumab with the chemo given her pleural effusions and would you give her bevacizumab now with the osimertinib?

Case Presentation — Dr Ibrahim: 67-year-old woman with metastatic adenocarcinoma of the lung (cont) – CT scan showing left pleural effusion and infiltrates



Case Presentation — Dr Ibrahim: 67-year-old woman with metastatic adenocarcinoma of the lung (cont) – PET CT with bone lesion



Case Presentation — Dr Ibrahim: 67-year-old woman with metastatic adenocarcinoma of the lung (cont) – Plasma NGS

ASK AN EXPERT

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Our Medical Affairs team is available to help you understand the results of this assay








BIOMARKER FINDINGS			ACTIONABILITY	
MSI Status Undetermined				
GENOMIC FINDINGS		MAF %	THERAPIES WITH CLINICAL BENEFIT (IN PATIENT'S TUMOR TYPE)	THERAPIES WITH CLINICAL BENEFIT (IN OTHER TUMOR TYPE)
EGFR -	L858R	2.0%	Afatinib 1 Dacomitinib 1 Erlotinib 1 Gefitinib 1 Osimertinib 1	None
10 Trials see p. 12				
CTNNB1 -	S37F	0.26%	None	None
10 Trials see p. 10				

☐ NCCN category

Regulatory and reimbursement issues aside, which adjuvant systemic therapy would you generally recommend for a patient with Stage IIB nonsquamous NSCLC and an EGFR exon 19 deletion?

1. Chemotherapy
2. Osimertinib
3. Chemotherapy followed by osimertinib
4. Other

For a patient with metastatic nonsquamous NSCLC with an EGFR exon 19 deletion and a PD-L1 TPS of 60% who receives first-line osimertinib with response followed by disease progression, would you recommend repeat mutation testing? What treatment would you recommend if no further actionable mutations were identified?

		Recommend repeat testing?	Second-line treatment
	JOHN V HEYMACH, MD, PHD	Yes, tissue	Atezo/carbo/paclitaxel + bev
	LEORA HORN, MD, MSC	Yes, liquid; if negative, tissue	Carbo/pemetrexed
	COREY J LANGER, MD	Yes, liquid and tissue	Continue osimertinib, add carbo/pemetrexed/bev*
	BENJAMIN LEVY, MD	Yes, liquid and tissue	Atezo/carbo/paclitaxel + bev
	JOEL W NEAL, MD, PHD	Yes, tissue	Pembro/carbo/pemetrexed or Atezo/carbo/paclitaxel + bev
	NATHAN A PENNELL, MD, PHD	Yes, tissue	Pembro/carbo/pemetrexed
	DAVID R SPIGEL, MD	Yes, liquid	Continue osimertinib, add carbo/pemetrexed

Atezo = atezolizumab; carbo = carboplatin; bev = bevacizumab; pembro = pembrolizumab

* Atezo/carbo/paclitaxel + bev if very symptomatic

Key Data Sets

Osimertinib as Adjuvant Therapy in Patients (pts) with Stage IB–IIIA EGFR Mutation Positive (EGFRm) NSCLC After Complete Tumor Resection: ADAURA

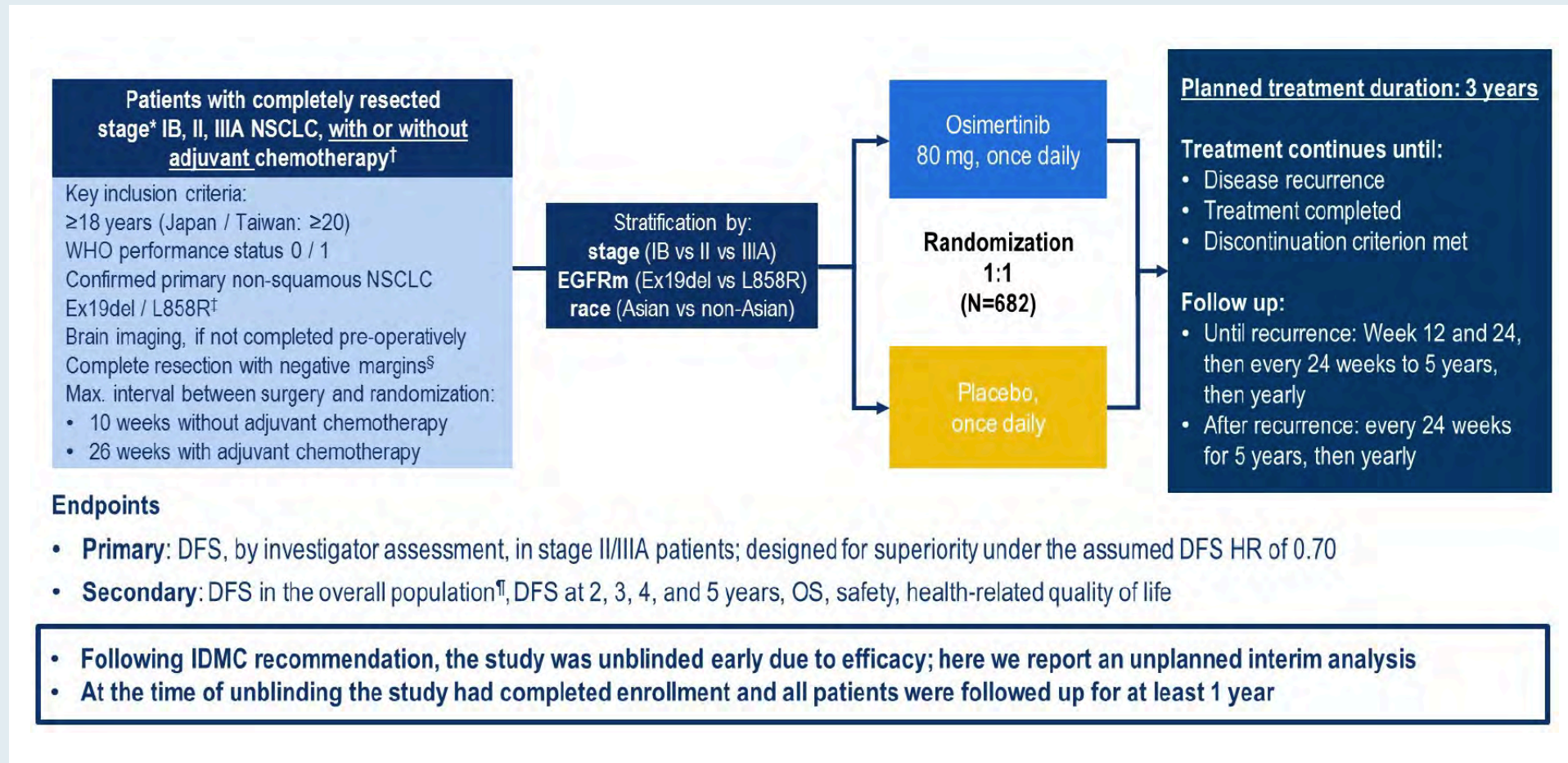
Herbst RS et al.

ASCO 2020;Abstract LBA5.

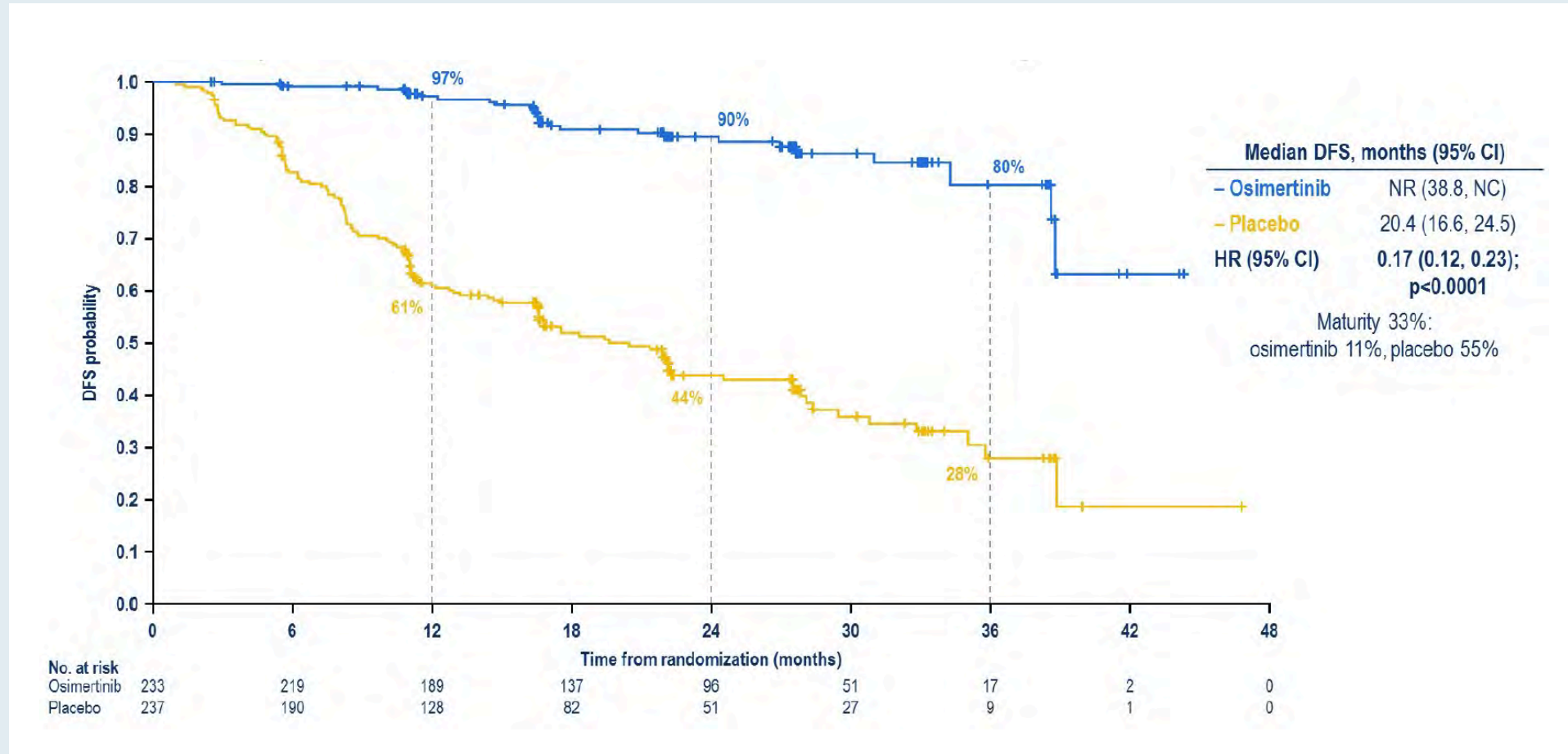
Discussion of LBA5

Discussant: David R Spigel, MD, FASCO | Sarah Cannon Research Institute

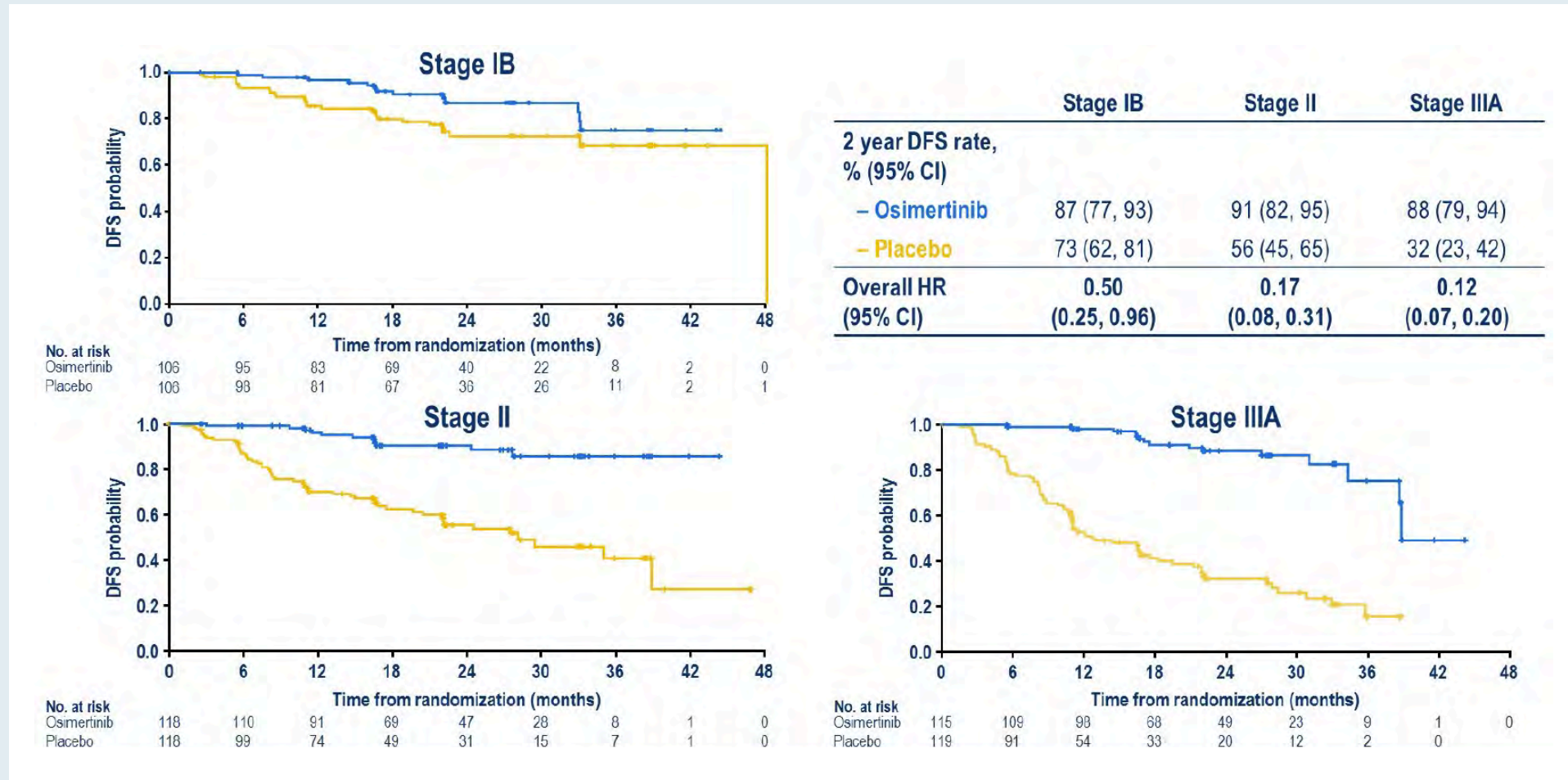
ADAURA Phase III Trial Schema



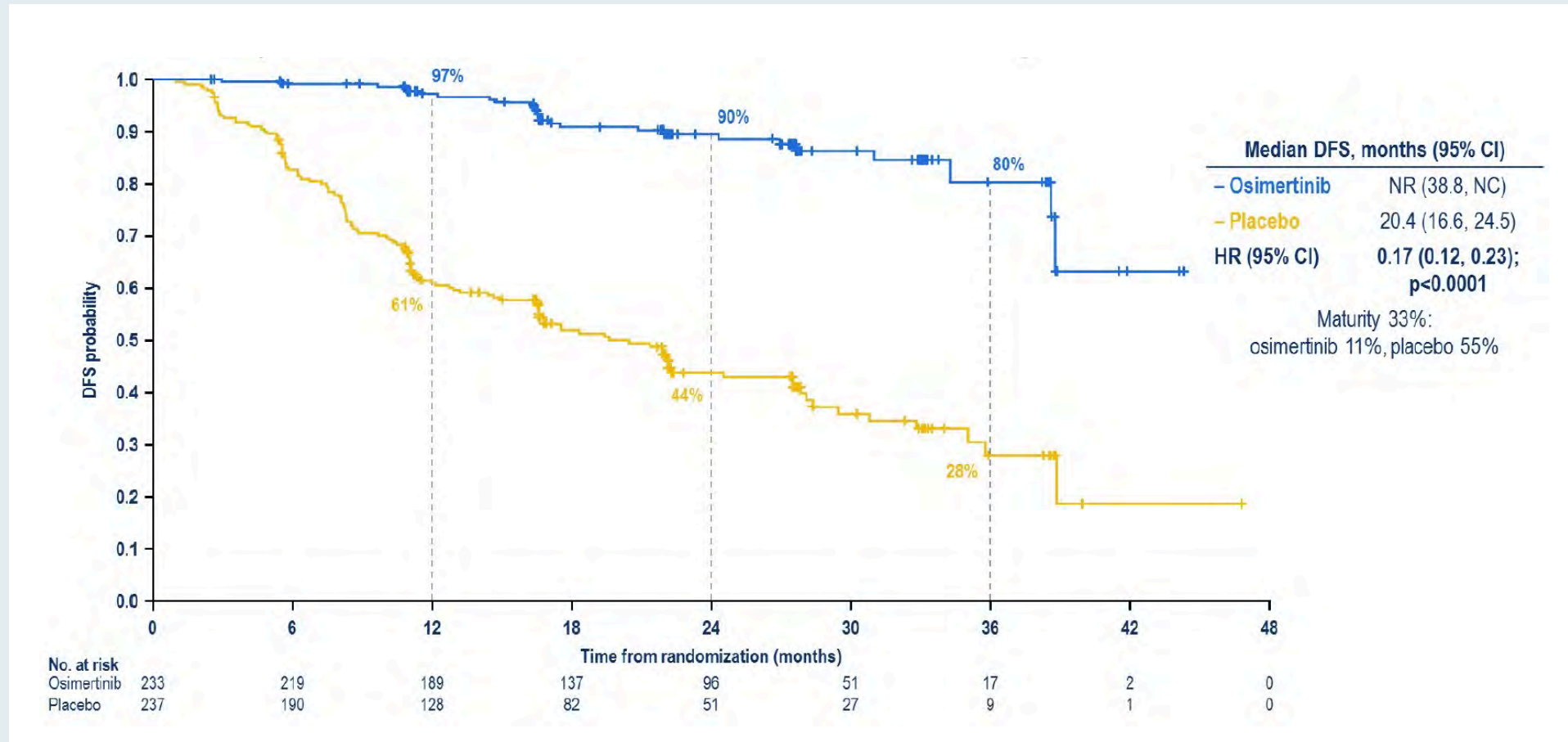
ADAURA Primary Endpoint: Inv-Assessed DFS (Stage II/IIIA)



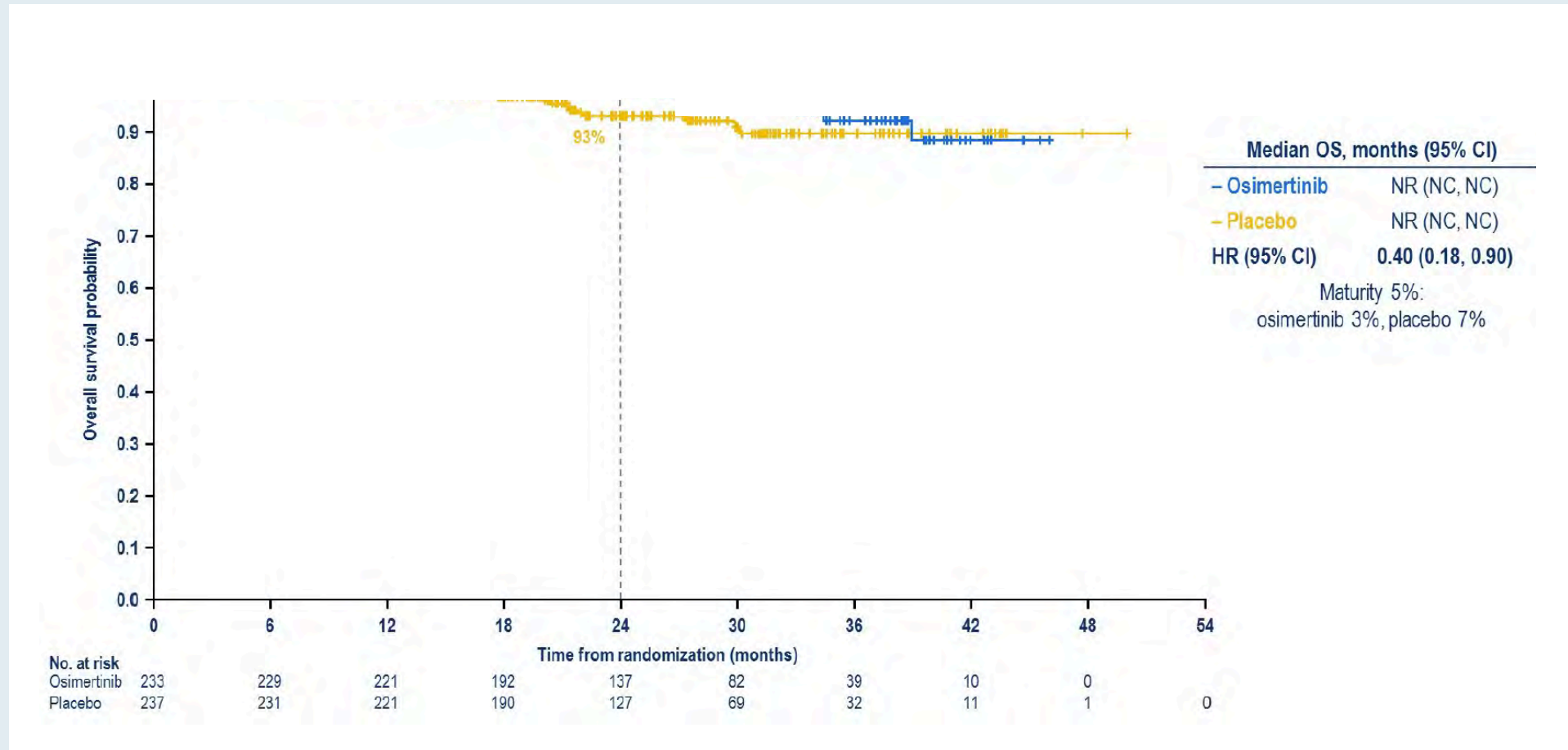
ADAURA: DFS by Stage



ADAURA Secondary Endpoint: Inv-Assessed DFS in the Overall Population (Stage IB/II/IIIA)



ADAURA: Early Snapshot of OS (Stage II/IIIA)



ADAURA: 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)

Phase II Randomized Trial of Carboplatin + Pemetrexed + Bevacizumab, +/- Atezolizumab in Stage IV Non-Squamous Non-Small Lung Cancer (NSCLC) Patients who Harbor a Sensitizing EGFR Mutation or Have Never Smoked

Bodor JN et al.

ASCO 2020;Abstract TPS9629.

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Case Presentation — Dr Morganstein: A 59-year-old man with metastatic squamous cell carcinoma of the lung

- Locally advanced squamous cell cancer and solitary metastasis to abdominal wall, which was resected
- NGS: KRAS G12C mutation, PD-L1: 10%
- Carboplatin/*nab* paclitaxel/pembrolizumab, with excellent response
- Currently on pembrolizumab maintenance

Questions

- In limited-stage metastatic disease or metastatic Stage IV NED, is there any role for thoracic radiation as a consolidative measure?
- Where do we fit in first-line VEGF therapy? Is anybody using 4-drug therapy in the first-line setting?
- What does the KRAS G12C mutation mean? How often is that seen in clinical practice? Is there a prognostic significance to that? When AMG 510 comes out, where would that get sequenced?



Neil Morganstein, MD

Would you offer a checkpoint inhibitor to a patient with metastatic NSCLC who had undergone a liver transplant in the past and had exhausted all treatment options?

1. Yes

2. No

Case Presentation — Dr Morganstein: A 72-year-old man with metastatic adenocarcinoma of the lung

- History of liver transplant 15 years ago
- Presented with stage IV adenocarcinoma with pleural and bone disease
- PD-L1: 80%
- NGS on tissue was normal
- Liquid biopsy: BRAF V600E at 0.2%
- Currently doing well on carboplatin and pemetrexed, with a plan for maintenance pemetrexed








Questions

- How do you deal with discordance between liquid biopsy and tissue NGS?
- How to interpret the percent positive on liquid biopsy?
- What is the role of BRAF inhibitor in first-line treatment and later lines?
- If he is running out of options is immunotherapy out of the question?



Neil Morganstein, MD








Which first-line treatment regimen would you recommend for a patient with metastatic nonsquamous lung cancer, no identified targetable mutations and a PD-L1 TPS of 10%? Of 60%?

		TPS of 10%		TPS of 60%	
		Age 65	Age 80	Age 65	Age 80
	JOHN V HEYMACH, MD, PHD	Pembro/carbo/pem	Pembro	Pembro	Pembro
	LEORA HORN, MD, MSC	Pembro/carbo/pem	Pembro or hospice	Pembro	Pembro
	COREY J LANGER, MD	Pembro/carbo/pem	Pembro	Pembro*	Pembro
	BENJAMIN LEVY, MD	Pembro/carbo/pem	Pembro	Pembro	Pembro
	JOEL W NEAL, MD, PHD	Pembro/carbo/pem	Pembro	Pembro +/- carbo/pem	Pembro
	NATHAN A PENNELL, MD, PHD	Pembro/carbo/pem	Pembro/carbo/pem [†]	Pembro	Pembro
	DAVID R SPIGEL, MD	Pembro/carbo/pem	Pembro/carbo/pem	Pembro	Pembro

Pem = pemetrexed








* If very symptomatic, pembro/carbo/pem; [†] Likely dose-reduced chemotherapy

Which first-line treatment regimen would you recommend for a patient with metastatic squamous lung cancer, no identified targetable mutations and a PD-L1 TPS of 10%? Of 60%?

		TPS of 10%		TPS of 60%	
		Age 65	Age 80	Age 65	Age 80
	JOHN V HEYMACH, MD, PHD	Pembro/carbo/ <i>nab</i> -P	Pembro	Pembro	Pembro
	LEORA HORN, MD, MSC	Pembro/carbo/ <i>nab</i> -P	Pembro/carbo/ <i>nab</i> -P	Pembro	Pembro
	COREY J LANGER, MD	Pembro/carbo/ <i>nab</i> -P	Pembro/carbo/ <i>nab</i> -P	Pembro	Pembro
	BENJAMIN LEVY, MD	Pembro/carbo/ <i>nab</i> -P	Pembro/carbo/P	Pembro	Pembro
	JOEL W NEAL, MD, PHD	Pembro/carbo/ <i>nab</i> -P or P	Pembro/carbo/ <i>nab</i> -P	Pembro +/- carbo/ <i>nab</i> -P or P	Pembro+/- carbo/ <i>nab</i> -P
	NATHAN A PENNELL, MD, PHD	Pembro/carbo/ <i>nab</i> -P	Pembro/carbo/P	Pembro	Pembro
	DAVID R SPIGEL, MD	Pembro/carbo/ <i>nab</i> -P	Pembro/carbo/ <i>nab</i> -P	Pembro	Pembro

Nab-P = nanoparticle albumin-bound paclitaxel; P = paclitaxel

How long would you continue treatment for a patient with metastatic NSCLC who is receiving an anti-PD-1/PD-L1 antibody and at first evaluation is tolerating it well and has a...

		Complete clinical response	Partial clinical response
	JOHN V HEYMACH, MD, PHD	2 years	Indefinitely or until PD/toxicity
	LEORA HORN, MD, MSC	2 years	2 years
	COREY J LANGER, MD	2 years (min)	2 years (min)
	BENJAMIN LEVY, MD	Indefinitely or until PD/toxicity	Indefinitely or until PD/toxicity
	JOEL W NEAL, MD, PHD	2 years	2 years
	NATHAN A PENNELL, MD, PHD	2 years	2 years
	DAVID R SPIGEL, MD	Likely 2 years but CR duration dependent	Indefinitely or until PD/toxicity

PD = progressive disease

Key Data Sets

FDA-Approved Immunotherapy Options for the First-Line Treatment of Metastatic NSCLC

Combination regimen	FDA approval	Pivotal study	Histologic type	HR (OS)
Pembrolizumab + Platinum and pemetrexed ¹	8/20/18	KEYNOTE-189	Nonsquamous	0.49
Pembrolizumab + Carboplatin, paclitaxel or <i>nab</i> paclitaxel ²	10/30/18	KEYNOTE-407	Squamous	0.64
Atezolizumab + Carboplatin and paclitaxel and bevacizumab ³	12/6/18	IMpower150	Nonsquamous	0.78
Atezolizumab + Carboplatin and <i>nab</i> paclitaxel ⁴	12/3/19	IMpower130	Nonsquamous	0.79
Nivolumab + Ipilimumab ⁵	5/15/20	CheckMate-227	PD-L1 TPS≥1, EGFR and/or ALK wt	0.62
Nivolumab + Ipilimumab and chemotherapy ⁶	5/26/20	CheckMate-9LA	EGFR and/or ALK wt	0.69
Monotherapy	FDA approval	Pivotal study	Histologic type	HR (OS)
Pembrolizumab ^{7,8}	4/11/19 10/24/16	KEYNOTE-042 KEYNOTE-024	PD-L1 TPS≥1%	0.63
Atezolizumab ⁹	5/18/20	IMpower110	PD-L1 TPS≥50, EGFR and/or ALK wt	0.59

¹ Gandhi L et al. *NEJM* 2018;378(22):2078-92. ² Paz-Ares L et al. *NEJM* 2018;379(21):2040-51.

³ Socinski MA et al. *NEJM* 2018;378(24):2288-301. ⁴ West H et al. *Lancet Oncol* 2019;20(7):924-37.

⁵ Hellmann MD et al. *N Engl J Med* 2019;381(21):2020-31. ⁶ Reck M et al. ASCO 2020;Abstract 9501.

⁷ Mok TSK et al. *Lancet* 2019;393(10183):1819-30. ⁸ Reck M et al. *J Clin Oncol* 2019;37(7):537-46.

⁹ Spigel DR et al. ESMO 2019;Abstract LBA78

FDA approves nivolumab with ipilimumab for first-line mNSCLC (PD-L1 tumor expression $\geq 1\%$)

Press Release — May 15, 2020

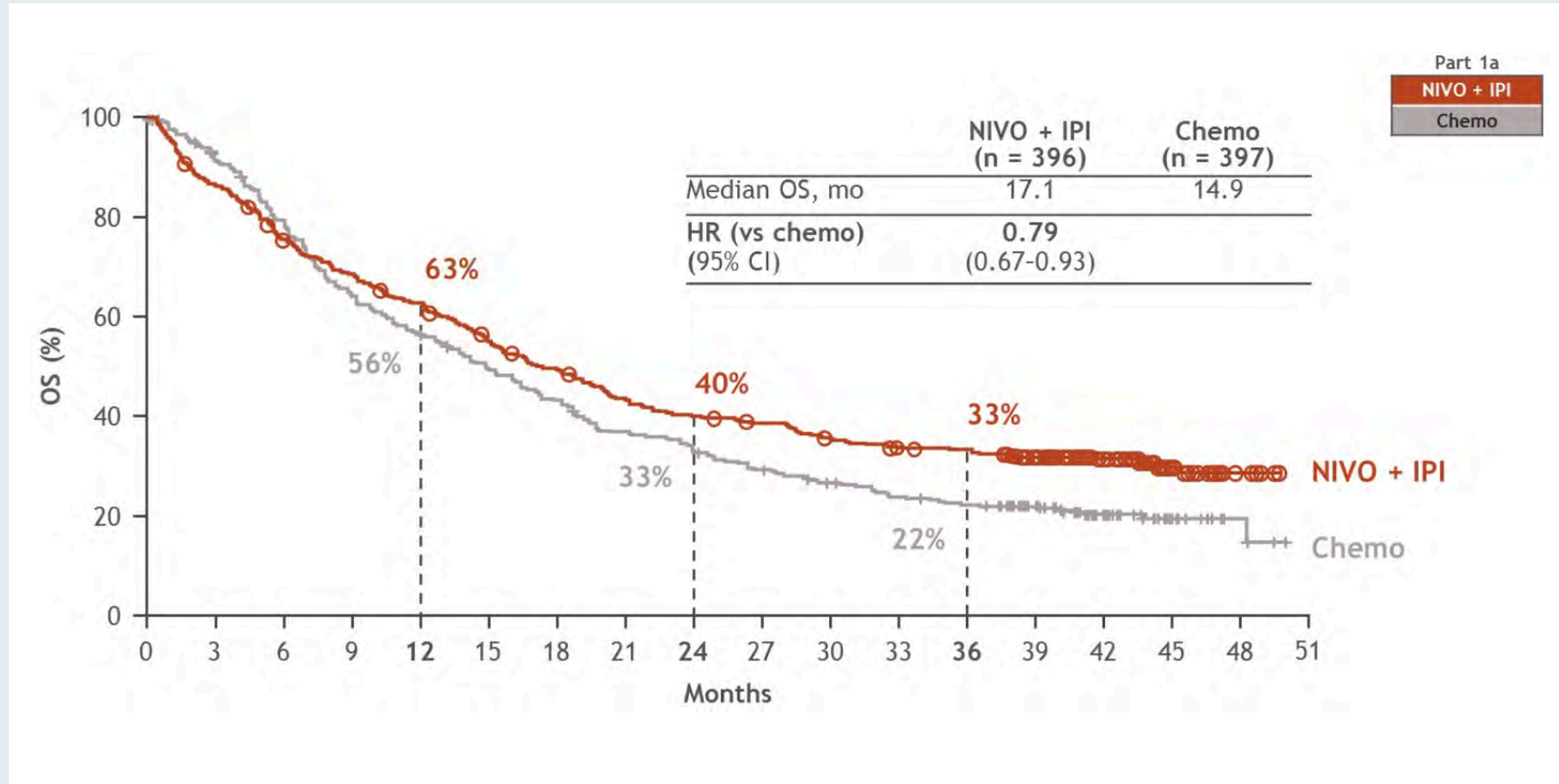
The Food and Drug Administration approved the combination of nivolumab plus ipilimumab as first-line treatment for patients with metastatic non-small cell lung cancer whose tumors express PD-L1($\geq 1\%$), as determined by an FDA-approved test, with no epidermal growth factor receptor (EGFR) or anaplastic lymphoma kinase (ALK) genomic tumor aberrations.

Efficacy was investigated in CHECKMATE-227 (NCT02477826), a randomized, open-label, multi-part trial in patients with metastatic or recurrent NSCLC and no prior anticancer therapy. In Part 1a of the trial, 793 patients with PD-L1 tumor expression $\geq 1\%$ were randomized to receive either the combination of nivolumab plus with ipilimumab (n=396) or platinum-doublet chemotherapy (n=397).

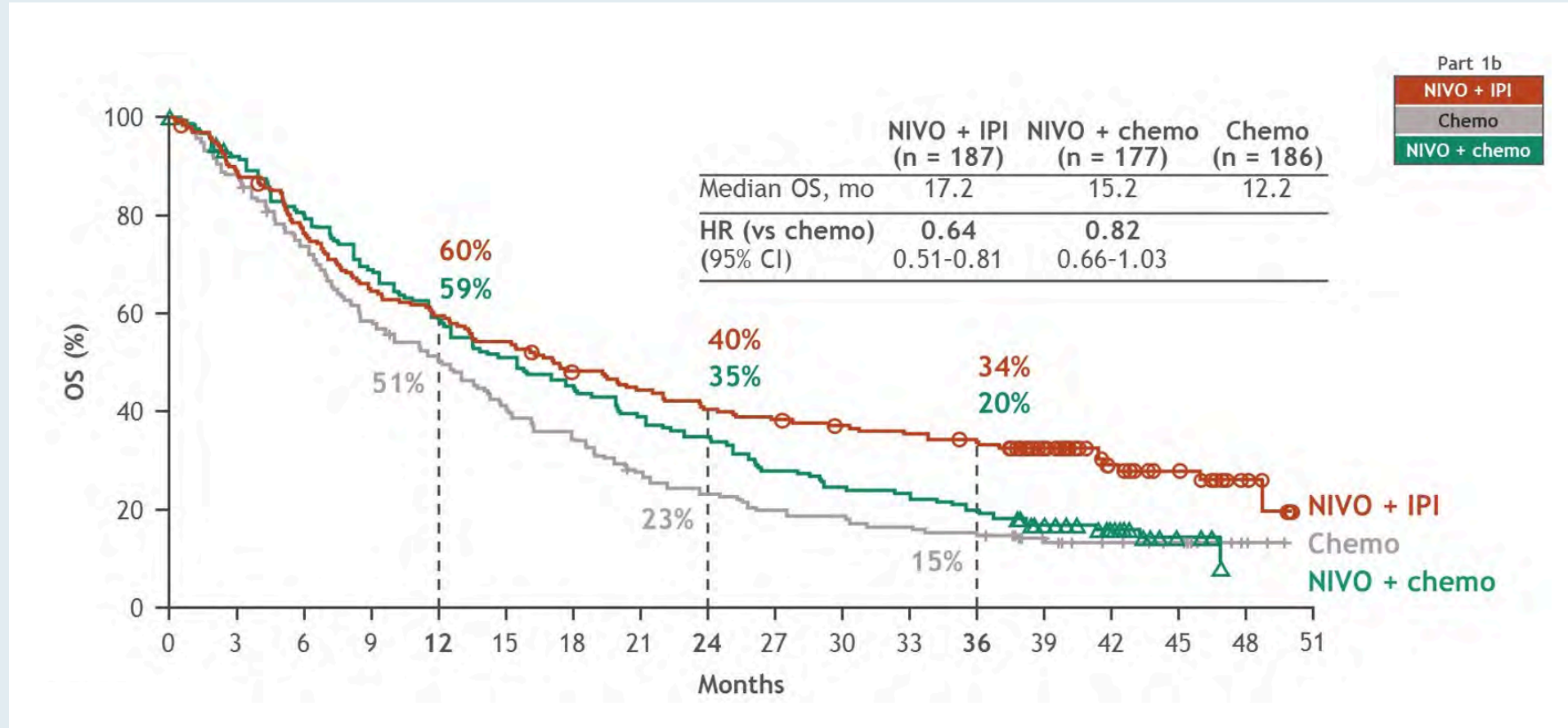
Nivolumab + Ipilimumab versus Platinum-Doublet Chemotherapy as First-Line Treatment for Advanced Non-Small Cell Lung Cancer: Three-Year Update from CheckMate 227 Part 1

Ramalingam SS et al.
ASCO 2020;Abstract 9500.

3-Year Update: OS with IPI + Nivo vs Chemo (PD-L1 $\geq 1\%$)



3-Year Update: OS with IPI + Nivo vs Chemo vs Nivo + Chemo (PD-L1 < 1%)



Landmark Analysis of OS by Response Status at 6 Months with PD-L1 $\geq 1\%$ (IPI + Nivo vs Chemo)

	Ipi + Nivo (n = 295) versus Chemo (n = 306)			
Response status	Response at 6 mo	1-yr OS rate	2-yr OS rate	3-yr OS rate
CR or PR	39% vs 25%	90% vs 73%	76% vs 51%	70% vs 39%
SD	14% vs 18%	69% vs 54%	45% vs 38%	34% vs 33%
PD	46% vs 58%	44% vs 47%	22% vs 25%	19% vs 17%

CheckMate 227: Treatment-Related AEs

Select AE	Nivo/Ipi (n = 576)		Chemo (n = 570)	
	Any grade	Grade 3-4	Any grade	Grade 3-4
Diarrhea	17.0%	1.7%	9.6%	0.7%
Rash	17.0%	1.6%	5.3%	0
Fatigue	14.4%	1.7%	18.9%	1.4%
Decreased appetite	13.2%	0.7%	19.6%	1.2%
Nausea	9.9%	0.5%	36.1%	2.1%
Anemia	3.8%	1.4%	33.0%	11.6%
Neutropenia	0.2%	0	17.2%	9.5%

- Treatment-related serious **AEs (any grade)**: 24.5% (Nivo/Ipi) vs 13.9% (chemo)
- Treatment-related AEs leading to **discontinuation (any grade)**: 18.1% (Nivo/Ipi) vs 9.1% (chemo)
- Treatment-related **death (any grade)**: 1.4% (Nivo/Ipi) vs 1.1% (chemo)

FDA approves nivolumab with ipilimumab and chemotherapy for first-line treatment of metastatic NSCLC

Press Release — May 26, 2020

The Food and Drug Administration approved the combination of nivolumab plus ipilimumab and 2 cycles of platinum-doublet chemotherapy as first-line treatment for patients with metastatic or recurrent non-small cell lung cancer (NSCLC), with no epidermal growth factor receptor (EGFR) or anaplastic lymphoma kinase (ALK) genomic tumor aberrations.

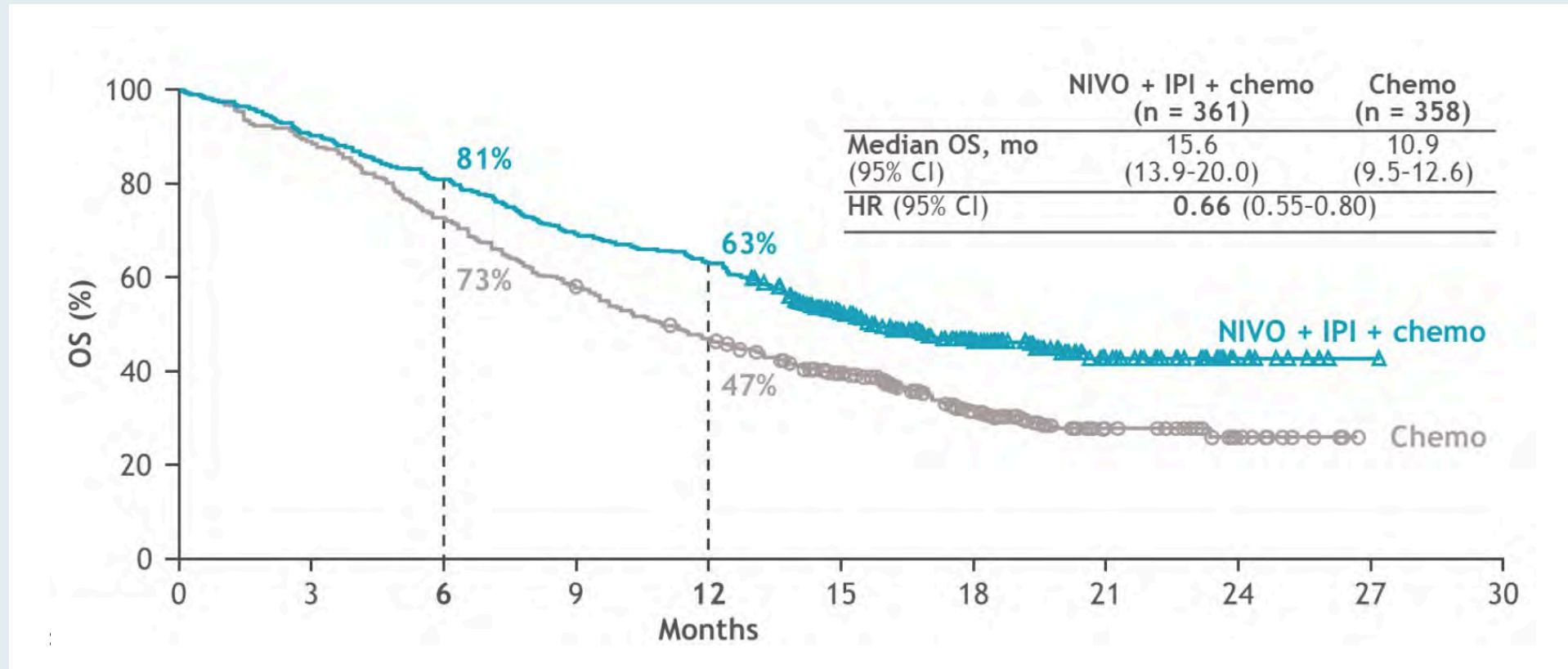
Efficacy was investigated in CHECKMATE-9LA (NCT03215706), a randomized, open-label trial in patients with metastatic or recurrent NSCLC. Patients were randomized to receive either the combination of nivolumab plus ipilimumab and 2 cycles of platinum-doublet chemotherapy (n=361) or platinum-doublet chemotherapy for 4 cycles (n=358).

Nivolumab (NIVO) + Ipilimumab (IPI) + 2 Cycles of Platinum-Doublet Chemotherapy (Chemo) vs 4 Cycles Chemo as First-Line (1L) Treatment (tx) for Stage IV/Recurrent Non-Small Cell Lung Cancer (NSCLC): CheckMate 9LA

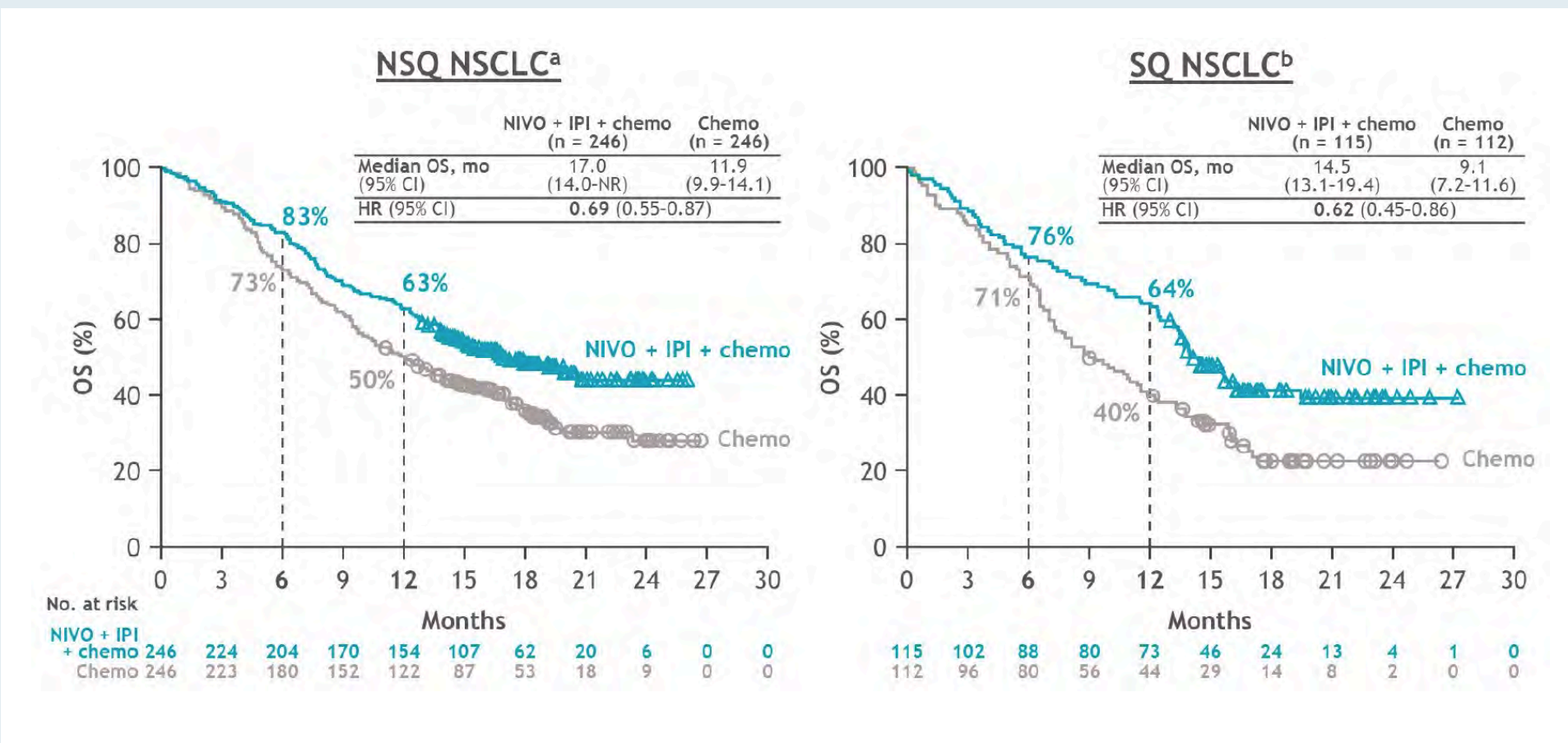
Reck M et al.

ASCO 2020;Abstract 9501.

CheckMate 9LA: Updated OS



CheckMate 9LA: Updated OS by Histology



CheckMate 9LA: Safety Summary

TRAE, ^a %	NIVO + IPI + chemo (n = 358)		Chemo (n = 349)	
	Any grade	Grade 3-4	Any grade	Grade 3-4
Any TRAE	92	47	88	38
TRAEs leading to discontinuation of any component of the regimen	19	16	7	5
Serious TRAEs	30	25.4	18	15
Treatment-related deaths ^b	2		2	

- Median (range) duration of therapy was 6.1 (0-23.5) months and 2.4 (0-24.0) months for NIVO + IPI + chemo versus chemo, respectively
- Most common any-grade TRAEs ($\geq 15\%$) were nausea, anemia, asthenia and diarrhea

Meet The Professor with Dr Horn

Module 1: Management of Metastatic NSCLC with an EGFR Tumor Mutation

- A 67-year-old woman with metastatic adenocarcinoma of the lung – Dr Ibrahim

Module 2: Anti-PD-1/PD-L1 Antibodies Alone or in Combinations for Metastatic NSCLC

- A 59-year-old man with metastatic squamous cell carcinoma of the lung – Dr Morganstein
- A 72-year-old man with metastatic adenocarcinoma of the lung – Dr Morganstein

Module 3: First-Line Treatment of Extensive-Stage Small Cell Lung Cancer

- A 64-year-old man with extensive-stage small cell lung cancer – Dr Ibrahim

Module 4: Checkpoint Inhibition in the Management of Locally Advanced NSCLC

- A 65-year-old man with locally advanced adenocarcinoma of the lung – Dr Gubens

Case Presentation — Dr Ibrahim: A 64-year-old man with extensive-stage small cell lung cancer

64-year-old gentleman who presented with symptoms of dyspnea and a palpable left supraclavicular lymph node. Biopsy of supraclavicular node consistent with metastatic small cell lung cancer. Also found to have a left adrenal lesion on PET scan that is hypermetabolic

Started on the IMpower 133 regimen of Carboplatin, Etoposide and Atezolizumab for extensive stage small cell lung cancer. Has good improvement in symptoms with four cycles of therapy, and follow-up imaging shows a good response to therapy. Has prophylactic cranial radiation and is on maintenance Atezolizumab for about four months when he develops disease progression in the mediastinum and adrenal gland

Gets second and third line therapy with weekly Paclitaxel and Topotecan with no response

Was started Lurbinectedin three weeks ago. I got it for him on an expanded access program just prior to FDA approval. Has had one cycle with no toxicity issues that he has called us about

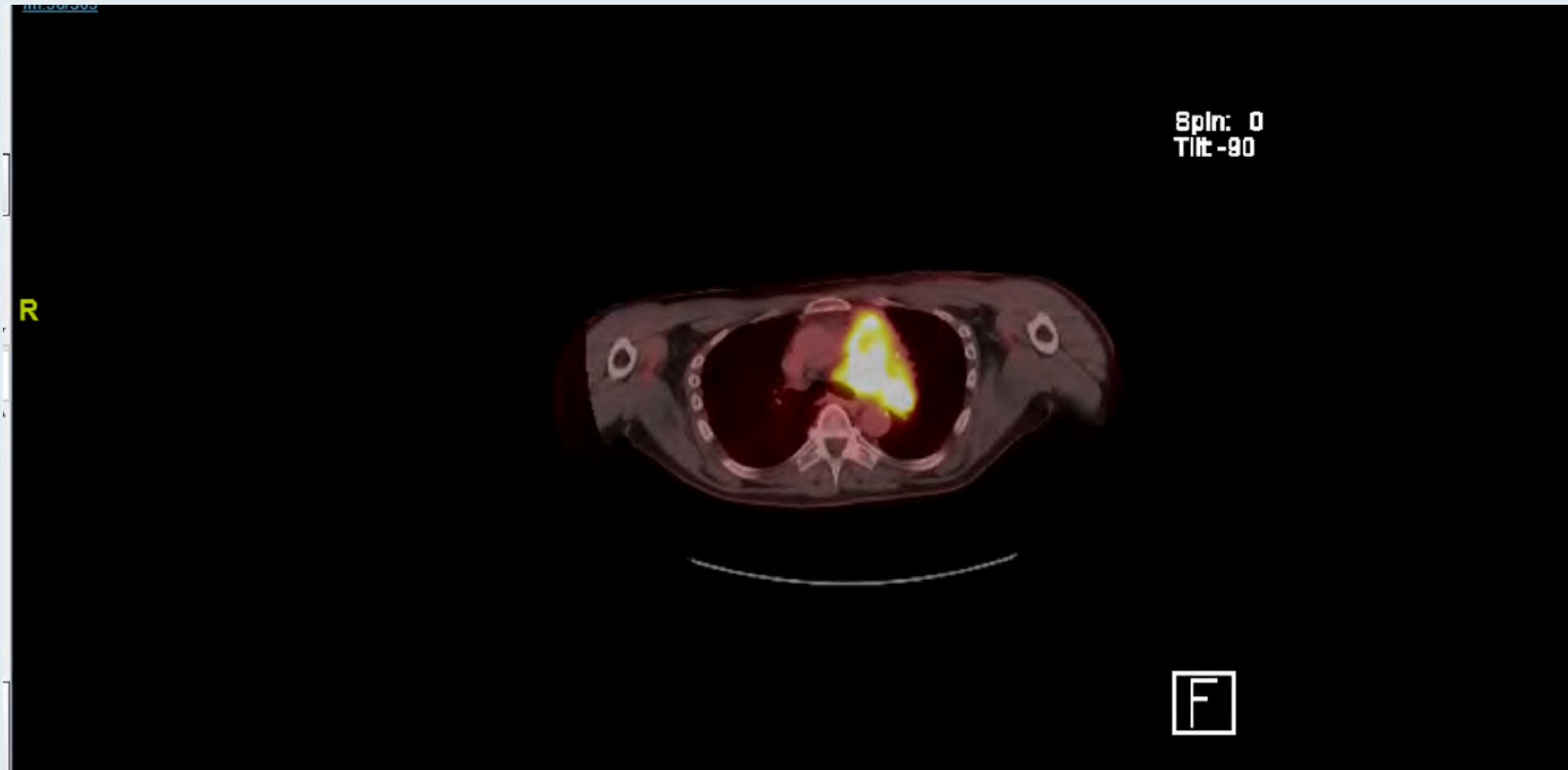
Questions:

- Is Lurbinectedin now the second line therapy for small cell? Any specific toxicity concerns? Further directions in the development of this agent?

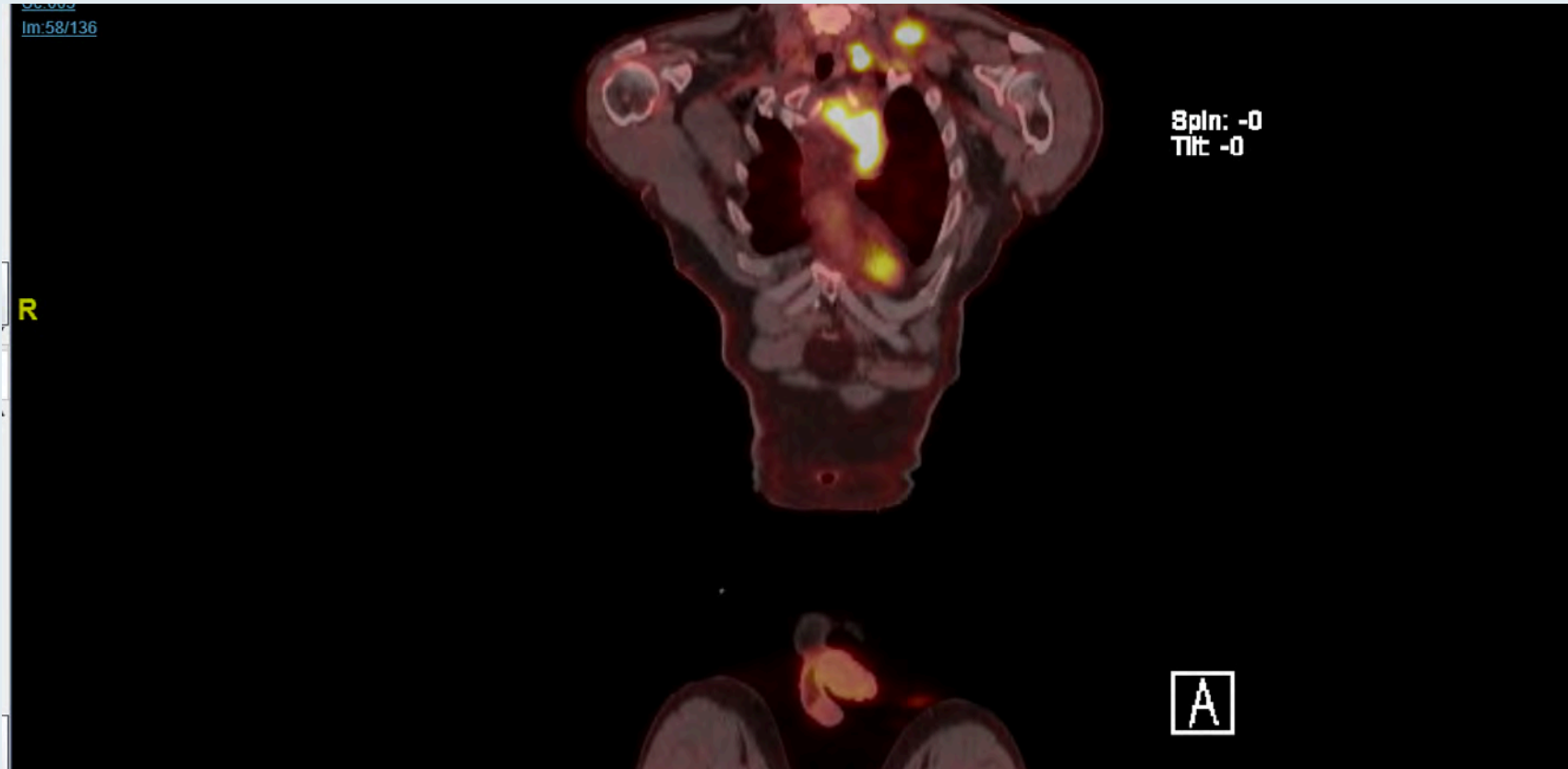


Sulfi Ibrahim, MD

Case Presentation — Dr Ibrahim: A 64-year-old man with extensive-stage small cell lung cancer (cont) – Large left lung mass










Case Presentation — Dr Ibrahim: A 64-year-old man with extensive-stage small cell lung cancer (cont) – Large left lung mass and supraclavicular adenopathy




What is your preferred second-line treatment for a patient with extensive-stage small cell cancer of the lung with metastases and disease progression on chemotherapy/atezolizumab?

1. Topotecan or irinotecan
2. Lurbinectedin
3. Nivolumab/ipilimumab
4. Pembrolizumab
5. Nivolumab
6. Other








Regulatory and reimbursement issues aside, what would be your preferred first-line treatment regimen for a patient with extensive-stage SCLC?

		Age 65	Age 80
	JOHN V HEYMACH, MD, PHD	Carbo/etoposide + atezolizumab	Carbo/etoposide + atezolizumab
	LEORA HORN, MD, MSC	Carbo/etoposide + atezolizumab	Carbo/etoposide + atezolizumab
	COREY J LANGER, MD	Carbo/etoposide + atezolizumab or durvalumab	Carbo/etoposide + durvalumab
	BENJAMIN LEVY, MD	Carbo/etoposide + atezolizumab	Carbo/etoposide + atezolizumab
	JOEL W NEAL, MD, PHD	Carbo/etoposide + atezolizumab	Carbo/etoposide + atezolizumab or durvalumab
	NATHAN A PENNELL, MD, PHD	Carbo/etoposide + atezolizumab	Carbo/etoposide + atezolizumab
	DAVID R SPIGEL, MD	Carbo/etoposide + durvalumab	Carbo/etoposide + durvalumab

Regulatory and reimbursement issues aside, what would be your preferred first-line treatment regimen for a 65-year-old patient with extensive-stage SCLC and neurologic paraneoplastic syndrome causing moderate to severe proximal myopathy?

 JOHN V HEYMACH, MD, PHD	Carboplatin/etoposide
 LEORA HORN, MD, MSC	Carboplatin/etoposide
 COREY J LANGER, MD	Carboplatin/etoposide + atezolizumab or durvalumab
 BENJAMIN LEVY, MD	Carboplatin/etoposide
 JOEL W NEAL, MD, PHD	Carboplatin/etoposide + atezolizumab or durvalumab
 NATHAN A PENNELL, MD, PHD	Carboplatin/etoposide
 DAVID R SPIGEL, MD	Carboplatin/etoposide + durvalumab

Regulatory and reimbursement issues aside, what would be your preferred first-line treatment for a 65-year-old patient with extensive-stage SCLC and symptomatic SIADH, in addition to standard treatment for SIADH?

	JOHN V HEYMACH, MD, PHD	Carboplatin/etoposide + atezolizumab or durvalumab
	LEORA HORN, MD, MSC	Carboplatin/etoposide/atezolizumab
	COREY J LANGER, MD	Carboplatin/etoposide + atezolizumab or durvalumab
	BENJAMIN LEVY, MD	Carboplatin/etoposide/atezolizumab
	JOEL W NEAL, MD, PHD	Carboplatin/etoposide + atezolizumab or durvalumab
	NATHAN A PENNELL, MD, PHD	Carboplatin/etoposide/atezolizumab
	DAVID R SPIGEL, MD	Carboplatin/etoposide + durvalumab

SIADH = syndrome of inappropriate antidiuretic hormone secretion

Key Data Sets

Accelerated Approval of Lurbinectedin for Metastatic SCLC

Press Release – June 15, 2020

“On June 15, 2020, the Food and Drug Administration granted accelerated approval to lurbinectedin for adult patients with metastatic small cell lung cancer (SCLC) with disease progression on or after platinum-based chemotherapy.

Efficacy was demonstrated in the PM1183-B-005-14 trial (Study B-005; NCT02454972), a multicenter open-label, multi-cohort study enrolling 105 patients with metastatic SCLC who had disease progression on or after platinum-based chemotherapy. Patients received lurbinectedin 3.2 mg/m² by intravenous infusion every 21 days until disease progression or unacceptable toxicity.

The recommended lurbinectedin dose is 3.2 mg/m² every 21 days.”

Randomized Phase II Clinical Trial of Cisplatin/Carboplatin and Etoposide (CE) Alone or in Combination with Nivolumab as Frontline Therapy for Extensive-Stage Small Cell Lung Cancer (ES-SCLC): ECOG-ACRIN EA5161

Leal T et al.

ASCO 2020;Abstract 9000.

KEYNOTE-604: Pembrolizumab (Pembro) or Placebo Plus Etoposide and Platinum (EP) as First-Line Therapy for Extensive-Stage (ES) Small-Cell Lung Cancer (SCLC)

Rudin CM et al.

ASCO 2020;Abstract 9001.

Durvalumab +/- Tremelimumab + Platinum-Etoposide in First-Line Extensive-Stage SCLC (ES-SCLC): Updated Results from the Phase III CASPIAN Study

Paz-Ares LG et al.

ASCO 2020;Abstract 9002.

Meet The Professor with Dr Horn

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What additional treatment, if any, would you recommend to a patient who had just completed chemoradiation therapy for unresectable Stage IIIB adenocarcinoma and had an ALK fusion mutation?

1. None
2. Durvalumab
3. Durvalumab followed by an ALK inhibitor
4. Durvalumab + ALK inhibitor
5. ALK inhibitor








Case Presentation — Dr Gubens: A 65-year-old man with a modest smoking history and locally advanced adenocarcinoma of the lung

- Stage III adenocarcinoma of the lung, with multi-station mediastinal nodes involved; No distant disease
- Chemoradiation, with response
- Molecular profiling: ALK fusion alteration
- Consolidation durvalumab x 1 year
- Currently, under surveillance










Matthew Gubens, MD, MS

Should PD-L1 levels generally be tested in patients with locally advanced NSCLC? In general, do you recommend durvalumab as consolidation treatment for patients with locally advanced NSCLC who have no disease progression after chemoradiation therapy?

		Recommend consolidation durvalumab?			
		Test for PD-L1?	PD-L1 ≤1%	EGFR mutation	ALK rearrangement
	JOHN V HEYMACH, MD, PHD	No	Yes	Yes	Yes
	LEORA HORN, MD, MSC	No	Yes	No	No
	COREY J LANGER, MD	Yes	Yes	Yes	Yes
	BENJAMIN LEVY, MD	Yes	Yes	Yes	Yes
	JOEL W NEAL, MD, PHD	Yes	Yes	Yes	No
	NATHAN A PENNELL, MD, PHD	No	Yes	Yes	Yes
	DAVID R SPIGEL, MD	No	Yes	Yes	Yes

A patient who successfully received chemoradiation therapy for locally advanced NSCLC is about to start durvalumab. Pretreatment imaging shows changes consistent with radiation effect. Would you use durvalumab?

In general, would you recommend consolidation durvalumab for similar patients who are experiencing mild esophagitis or mildly symptomatic pneumonitis?

		Radiation effect	Mild esophagitis	Mildly symptomatic pneumonia
	JOHN V HEYMACH, MD, PHD	Yes	Yes	No
	LEORA HORN, MD, MSC	Yes	Yes	No, wait until improvement
	COREY J LANGER, MD	Yes	Yes	Yes*
	BENJAMIN LEVY, MD	Yes	Yes	Yes
	JOEL W NEAL, MD, PHD	Yes	Yes	Yes
	NATHAN A PENNELL, MD, PHD	Yes	Yes	No
	DAVID R SPIGEL, MD	Yes	Yes	Yes

* If Grade 1 and do not require steroids

Key Data Sets

Real-World Rates of Pneumonitis After Consolidation Durvalumab

Real-World Survey of Pneumonitis/Radiation Pneumonitis in LA-NSCLC After Approval of Durvalumab: HOPE-005/CRIMSON Retrospective Cohort Study

- >80% developed pneumonitis
- More than half of them were asymptomatic, but 5% needed HOT and 1.5% developed fatal pneumonitis
- V20 was an independent risk factor for symptomatic pneumonitis (Grade ≥ 2)
- With careful consideration, durvalumab-rechallenge could be an option after corticosteroid therapy for pneumonitis

Incidence of Pneumonitis in US Veterans with NSCLC Receiving Durvalumab After Chemoradiation Therapy

- In this real-world cohort, clinical significant pneumonitis was:
 - More frequent compared to clinical trial reports
 - Asymptomatic infiltrates on imaging: 39.8%
 - Clinically significant pneumonitis: 21.1%
 - Grade 2 (7.3%), Grade 3 (11.4%), Grade 4 (1.6%), Grade 5 (0.8%)
 - Not associated with increased risk of death

Lorlatinib Significantly Improves Progression-Free Survival in First-Line ALK-Positive Lung Cancer

Press Release – August 5, 2020

The Phase 3 CROWN study of lorlatinib in people with previously untreated advanced anaplastic lymphoma kinase (ALK)-positive non-small cell lung cancer (NSCLC) met its primary endpoint by demonstrating significantly improved progression-free survival (PFS), as compared to crizotinib. The results were reviewed by an independent Data Monitoring Committee (DMC) at a planned interim analysis. The safety profile for lorlatinib and crizotinib were consistent with what has been previously seen in clinical trials.

CROWN is a Phase 3, randomized, open-label, parallel 2-arm study in which 296 people with previously untreated advanced ALK-positive NSCLC were randomized 1:1 to receive lorlatinib monotherapy or crizotinib monotherapy. The primary endpoint of the CROWN trial is PFS based on blinded independent central review (BICR). Secondary endpoints include overall survival, PFS based on investigator's assessment, objective response (OR) based on BICR and on investigator's assessment; intracranial OR (IC-OR), IC time to progression, duration of response (DR), IC-DR, time to tumor response (TTR), IC-TTR (all by BICR); PFS2 based on investigator's assessment, and safety.

Trastuzumab Deruxtecan (T-DXd; DS-8201) in Patients with HER2-Mutated Metastatic Non-Small Cell Lung Cancer (NSCLC): Interim Results of DESTINY-Lung01

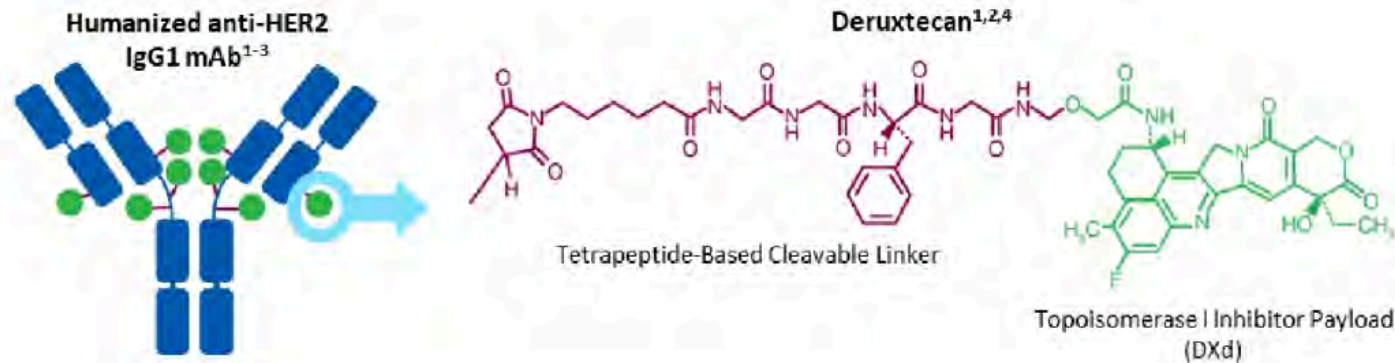
Smit EF et al.

ASCO 2020;Abstract 9504.

Antibody-Drug Conjugate Trastuzumab Deruxtecan

T-DXd is an ADC with 3 components:

- A humanized anti-HER2 IgG1 mAb with the same amino acid sequence as trastuzumab
- A topoisomerase I inhibitor payload, an exatecan derivative
- A tetrapeptide-based cleavable linker



Payload mechanism of action:
topoisomerase I inhibitor

High potency of payload

High drug to antibody ratio ≈ 8

Payload with short systemic half-life

Stable linker-payload

Tumor-selective cleavable linker

Membrane-permeable payload

DESTINY-Lung01: Phase II Study Design

Patients

- Unresectable/metastatic nonsquamous NSCLC
- Relapsed/refractory to standard treatment
- HER2-expressing or HER2-activating mutation^a
- No prior HER2-targeted therapy, except pan-HER TKIs



Cohort 1 (n = 42)

HER2 expressing (IHC 3+ or IHC 2+)

Cohort 2 (n = 42)

HER2 mutated

T-DXd 6.4 mg/kg q3w

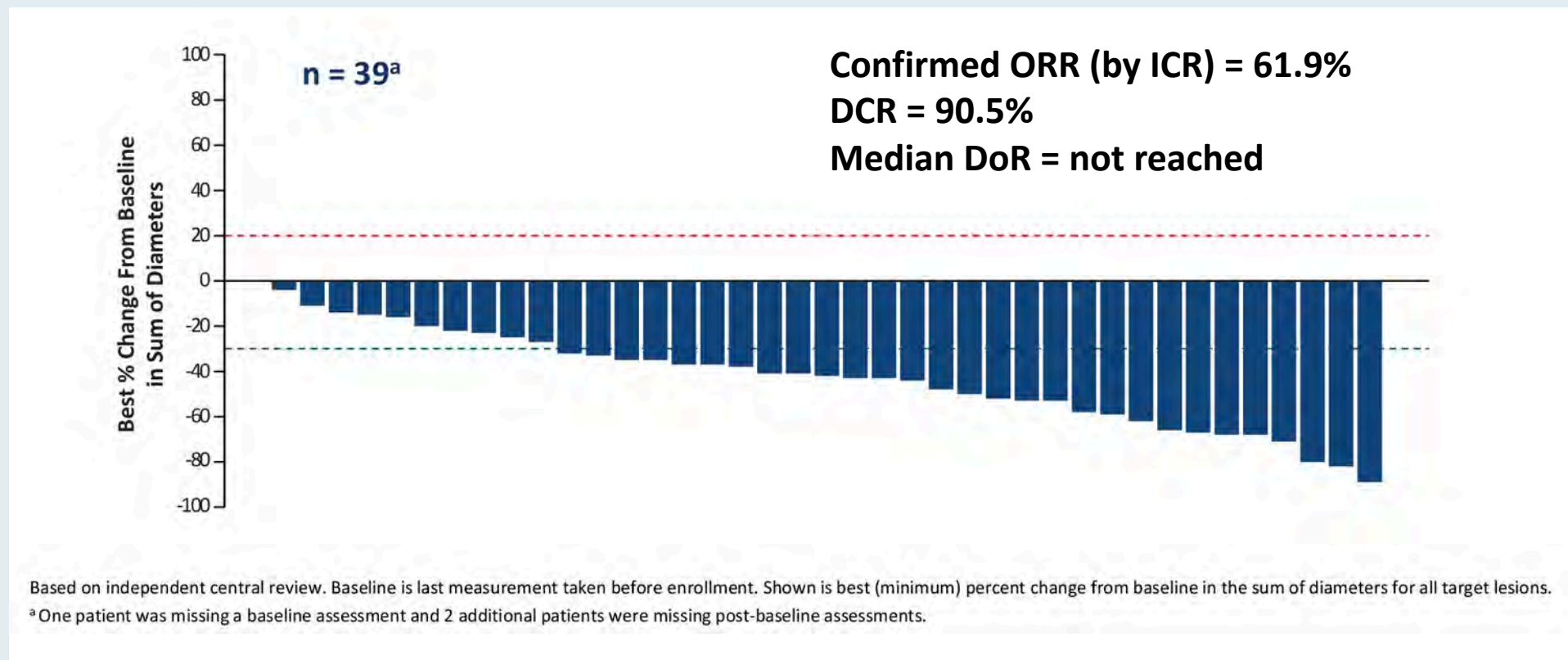
Primary endpoint

- Confirmed ORR by independent central review

Data cutoff: November 25, 2019

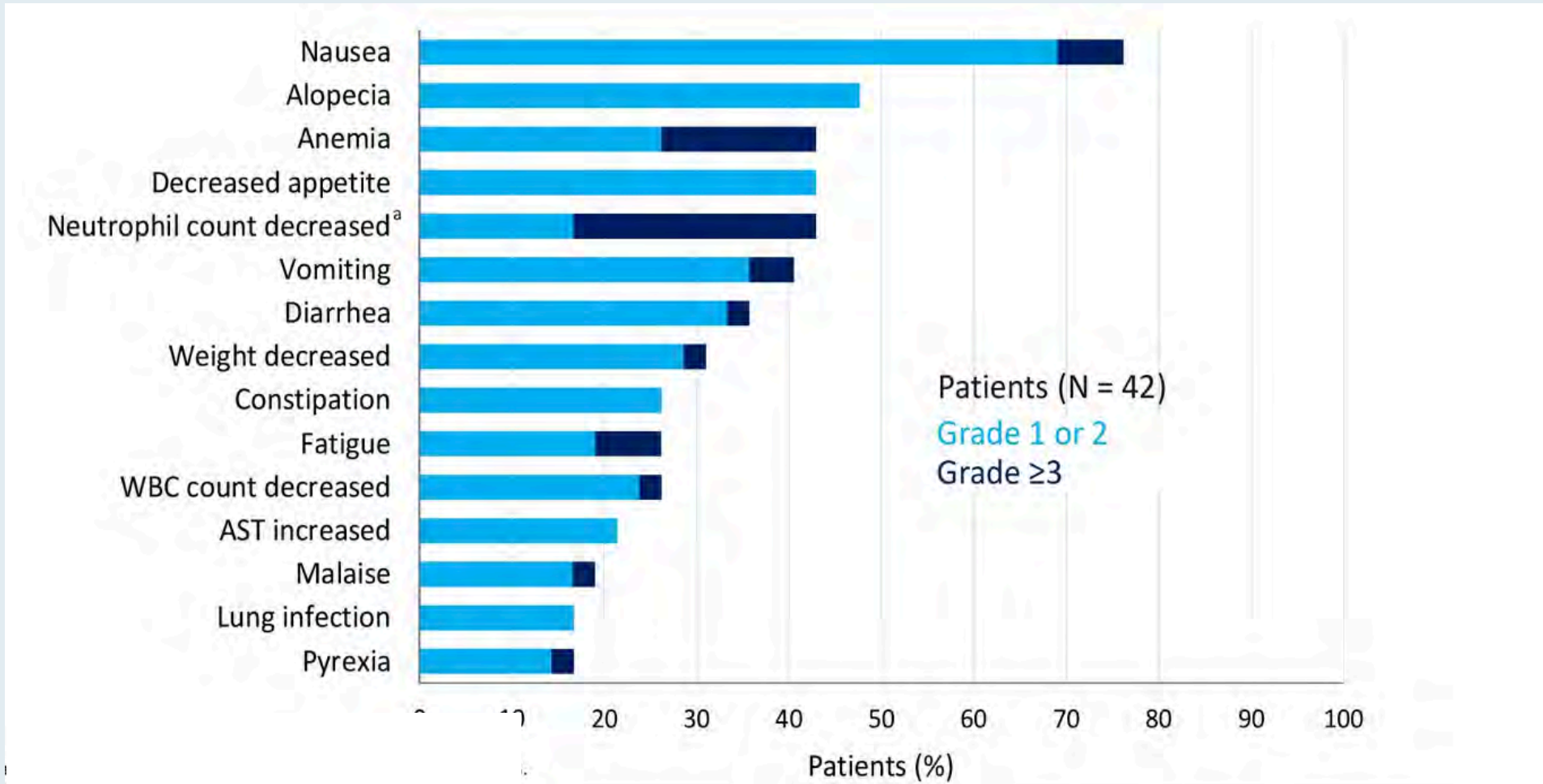
- 45.2% of patients (19/42) in Cohort 2 remained on treatment
- 54.8% discontinued, primarily for progressive disease and adverse events (21.4% each)

DESTINY-Lung01: Efficacy



- Median PFS = 14.0 mos

DESTINY-Lung01: Treatment-Emergent AEs



DESTINY-Lung01: AEs of Special Interest – Interstitial Lung Disease

All Patients (N = 42)						
n (%)	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any Grade/ Total
Interstitial lung disease	0 ^a	5 (11.9)	0	0	0	5 (11.9)

- Median time to onset of investigator-reported ILD was at 86 days (range, 41-255 days)
- 4 patients had drug withdrawn and 1 had drug interrupted
- All patients received steroid treatment
- 2 patients recovered, 1 recovered with sequelae, 1 was recovering, and 1 had not recovered by data-cutoff
- No grade 5 ILD was observed in this cohort

Clinical Investigator Perspectives on the Current and Future Management of Multiple Myeloma

A Meet The Professor Series

Wednesday, August 19, 2020
12:00 PM – 1:00 PM ET

Faculty

Noopur Raje, MD

Moderator

Neil Love, MD

Thank you for joining us!

***CME and MOC credit information will be emailed
to each participant within 5 days.***