Biomarker Analysis and the Implications for the Treatment of Non-Small Cell Lung Cancer

FACULTY INTERVIEWS

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Biomarker Analysis and the Implications for the Treatment of Non-Small Cell Lung Cancer

A Continuing Medical Education Audio Activity

OVERVIEW OF ACTIVITY

Recent developments have led to an explosion in lung cancer genetic and biologic knowledge, but the integration of anti-PD-1/PD-L1 checkpoint inhibitors into treatment and the evolution of targeted therapy have complicated decision-making for clinicians caring for patients with metastatic non-small cell lung cancer (NSCLC).

To assist medical oncologists as they think through the complex management of NSCLC, this program features the perspectives of a lung cancer clinical oncology investigator and a pathologist on the results of a patterns of care survey of 25 thoracic oncology experts documenting the current state of biomarker analysis and the related implications for treatment. Upon completion of this CME activity, medical oncologists should be able to formulate an up-to-date and more complete approach to the care of patients with lung cancer.

LEARNING OBJECTIVES

- Analyze the effects of tumor histology, genetic alterations and PD-L1 tumor proportion score on the practice
 patterns of clinical investigators in the management of NSCLC.
- Recognize the utility and limitations of multiplex and next-generation sequencing platforms, and determine their clinical application for patients with NSCLC.
- Review available research data on the effectiveness of approved EGFR tyrosine kinase inhibitors (TKIs) in patients
 with various EGFR mutations, and use this information to guide first-line treatment decision-making.
- Describe mechanisms of tumor resistance to EGFR TKIs, and understand the therapeutic options for patients whose disease progresses on first-line EGFR therapy.
- Describe available and emerging data on the efficacy of anti-PD-1/PD-L1 antibodies in NSCLC, and consider this
 information when counseling patients regarding treatment options.
- Assess new oncogenic pathways mediating the growth of unique NSCLC tumor subsets, and recall emerging data with experimental agents exploiting these targets.

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Interview with Gregory J Riely, MD, PhD

Tracks 1-22

Track 1	Classification of metastatic non-small cell lung cancer	Track 11	Mechanisms of acquired resistance to osimertinib		
	(NSCLC) based on biomarker analysis	Track 12	Response to EGFR TKIs in patients with CNS metastases		
Track 2	Optimal testing platforms for patients with metastatic NSCLC	Track 13	Plasma versus tissue genotyping for detection of T790M mutations		
Track 3	Molecular profiling to detect targetable alterations in patients with newly diagnosed metastatic nonsquamous NSCLC	Track 14	Response to osimertinib in patients with T790M-negative metastatic NSCLC		
Track 4	Choice of first-line therapy for patients with metastatic squamous		Therapeutic options for patients with T790M-negative metastatic NSCLC		
	NSCLC and no targetable mutations	Track 16	Choosing between targeted		
Track 5	Ongoing investigation of immune checkpoint inhibitors with chemotherapy as first-line treatment for metastatic squamous NSCLC with no targetable mutation		therapy and immunotherapy for patients with metastatic nonsquamous NSCLC and actionable mutations		
		Track 17	Management of lung cancer in patients with ALK and ROS1		
Track 6	Duration and level of response to immune checkpoint inhibitors based on PD-L1 tumor proportion score (TPS)		genomic alterations		
		Track 18	Selection of up-front therapy for BRAF mutation-positive metastatic NSCLC		
Track 7	Use of immune checkpoint inhibitors in combination with chemotherapy as front-line therapy for metastatic nonsquamous NSCLC without a targetable	Track 19	MET exon 14 alterations and implications for treatment		
		Track 20	Sequencing therapy for patients with RET rearrangements		
mutation Track 8 Selection of EGFR tyrosine kinase inhibitors (TKIs) as first-line		Track 21	Efficacy of HER2-targeted therapy for patients with metastatic NSCLC and HER2 alterations		
	therapy for EGFR-mutated NSCLC	Track 22	Analysis of PD-L1 expression and		
Track 9	Types of EGFR mutations and activity of EGFR TKIs		variation over time		
Track 10	Efficacy and tolerability of the EGFR TKI osimertinib as first-line therapy				

Interview with Marc Ladanvi, MD

Tracks 1-13

Track 1	Molecular pathology of lung cancer	Track 5	Assays to detect genomic alterations in patients with lung cancer	
Track 2	Genomic testing for patients with newly diagnosed metastatic NSCLC	Track 6	Biology of MET exon 14 alterations in NSCLC	
		Track 7	Incidence of RET fusions in	
Track 3	Actionable alterations in patients with adenocarcinoma of the lung		patients with lung adenocarcinoma; response to targeted therapy	
Track 4	Targeting KRAS mutation-positive NSCLC			

Interview with Dr Ladanyi (continued)

Track 8	Activity of NTRK inhibitors in patients with NTRK fusions	Track 11	T790M mutation testing for patients who develop resistance to EGFR TKIs		
Track 9	MSK-IMPACT™: Next-generation sequencing assay to detect genomic alterations and inform therapeutic decision-making	Track 12	Acquired EGFR C797S mutation as a mechanism of resistance to osimertinib		
Track 10	Mechanisms of resistance to	Track 13	Detection of ALK fusions in NSCLC		

Video Program

View the corresponding video interviews with (from left) Drs Riely and Ladanyi by Dr Love at www.ResearchToPractice.com/BiomarkersLung17/Video



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SELECT PUBLICATIONS

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POST-TEST

Biomarker Analysis and the Implications for the Treatment of Non-Small Cell **Lung Cancer**

QUESTIONS (PLEASE CIRCLE ANSWER):

1. A recent survey of 25 clinical investigators regarding the sequencing of systemic therapy for metastatic NSCLC revealed that for patients with squamous histology and a PD-L1 TPS greater than 50%, the preferre first-line treatment option was a. Carboplatin/nab paclitaxel b. Carboplatin/pemetrexed/bevacizumab c. Pembrolizumab	that increases MET signaling b. They respond well to crizotinib c. They do not occur concomitantly with MET amplification
2. Primary results of the global Phase III ALE study evaluating alectinib versus crizotinib for treatment-naïve, advanced ALK-positive NSCLC demonstrated a significant improvement in favor of alectinib with respect to	tors analyzing the sequencing of systemic therapy for metastatic NSCLC, for patients
e. Both a and c 3. Recent studies presented at ASCO 2017 demonstrated that T-DM1 elicited a higher response rate for patients with HER2-mutant lung cancer than for those with HER2-overexpressed disease. a. True	8. Patients with EGFR mutation-positive NSCLC are to respond to immunotherapy than are patients who do n have targetable mutations. a. More likely b. Less likely

- 4. Mechanisms of acquired resistance to EGFR TKIs include
 - a. Development of the T790M mutation
 - b. MET amplification
 - c. HER2 amplification
 - d. All of the above
- 5. The incidence of RET fusion in patients with lung adenocarcinomas is approximately
 - a. 1% to 2%
 - b. 5%
 - c. 10%

b. False

- е
- ot
- 9. Recent data suggest that _ mutation that confers resistance to alectinib in patients with ALK-rearranged NSCLC.
 - a. G1202R
 - b. T790M
 - c. C797S
- 10. The third-generation EGFR TKI osimertinib
 - a. Selectively targets both the T790M mutation and wild-type EGFR
 - b. Is effective for patients with brain metastases
 - c. Both a and b

EDUCATIONAL ASSESSMENT AND CREDIT FORM

Biomarker Analysis and the Implications for the Treatment of Non-Small Cell Lung Cancer

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PART 1 — Please tell us about your experience with this educational activity

	The second second				44		
How would you	characterize	vour lev	/el of	knowledge (on the	following to	opics:

4 = Excellent $3 = Good 2 = Good 3 = G$		l - Subontimal
4 - Excellent 3 = doud 2 =		
	BEFORE	AFTER
ALEX: Results of the Phase III study comparing alectinib to crizotinib for treatment-naïve, advanced ALK-positive NSCLC	4 3 2 1	4 3 2 1
Therapeutic implications of the recent FDA approval of pembrolizumab with carboplatin/pemetrexed as front-line treatment for metastatic nonsquamous NSCLC regardless of TPS	4 3 2 1	4 3 2 1
Emerging data on the treatment of lung cancer with other oncogenic drivers beyond EGFR, ALK and ROS1 (eg, BRAF, MET exon 14, HER2)	4 3 2 1	4 3 2 1
Preference among clinical investigators for the use of immune checkpoint inhibitors as up-front therapy for patients with squamous cell lung carcinoma and a TPS greater than 50%	4 3 2 1	4 3 2 1
Efficacy of osimertinib for T790M mutation-positive advanced NSCLC after disease progression on an EGFR TKI	4 3 2 1	4 3 2 1
Practice Setting: ☐ Academic center/medical school ☐ Community cancer center/h ☐ Solo practice ☐ Government (eg, VA) ☐ Other (please s		
Approximately how many new patients with lung cancer do you see per year?		patien
Nas the activity evidence based, fair, balanced and free from commercial	bias?	
─ Yes ─ No If no, please explain:		
Please identify how you will change your practice as a result of completing apply).	ng this activity (select all that
This activity validated my current practice		
Create/revise protocols, policies and/or procedures		
Change the management and/or treatment of my patients		
Other (please explain):		
f you intend to implement any changes in your practice, please provide 1	or more examp	oles:
Flar and add this activity matched any amount (as welcotist)		
The content of this activity matched my current (or potential) scope of pra ☐ Yes ☐ No If no, please explain:		
Please respond to the following learning objectives (LOs) by circling the a		
4 = Yes $3 = Will consider$ $2 = No$ $1 = Already doing$ $N/M = LO no$	t met N/A = Nc	nt applicable
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management of NSCLC.		3 2 1 N/M N
 Recognize the utility and limitations of multiplex and next-generation sequely platforms, and determine their clinical application for patients with NSCLC. Review available research data on the effectiveness of approved EGFR tyrosterior 		3 2 1 N/M N
kinase inhibitors (TKIs) in patients with various EGFR mutations, and use the information to guide first-line treatment decision-making.	ıs 4 3	3 2 1 N/M N
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EDUCATIONAL ASSESSMENT AND CREDIT FORM (continued)

As a result of this activity, I will be able to:

. Describe mechanisms of tumor resistance to EGFR TKIs, and understand the therapeutic options for patients whose disease progresses on first-line EGFR therapy. 4 3 2 1 N/M N/A • Describe available and emerging data on the efficacy of anti-PD-1/PD-L1 antibodies in NSCLC, and consider this information when counseling patients regarding • Assess new oncogenic pathways mediating the growth of unique NSCLC tumor subsets, and recall emerging data with experimental agents exploiting these targets. . . . 4 3 2 1 N/M N/A Please describe any clinical situations that you find difficult to manage or resolve that you would like to see addressed in future educational activities: Would you recommend this activity to a colleague? □ No. If no, please explain: PART 2 — Please tell us about the faculty and editor for this educational activity 4 = Excellent3 = Good2 = Adequate1 = Suboptimal **Faculty** Knowledge of subject matter Effectiveness as an educator Gregory J Riely, MD, PhD 3 2 1 3 2 1 Marc Ladanvi, MD 4 3 2 1 4 3 1 Effectiveness as an educator Editor Knowledge of subject matter Neil Love, MD 3 4 3 2 1 REQUEST FOR CREDIT — Please print clearly Name: Specialty: Professional Designation:

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Lung Cancer

U P D A T E

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