

# Lung Cancer™

U P D A T E

Conversations with Oncology Investigators  
Bridging the Gap between Research and Patient Care

**FACULTY INTERVIEWS**

Matthew D Hellmann, MD

Lecia V Sequist, MD, MPH

**EDITOR**

Neil Love, MD



 Subscribe to Podcasts at [ResearchToPractice.com/Podcasts](https://ResearchToPractice.com/Podcasts)

 Follow us at [Facebook.com/ResearchToPractice](https://Facebook.com/ResearchToPractice)  Follow us on Twitter @DrNeilLove

# Lung Cancer™

U P D A T E

<b>Editor</b>	Neil Love, MD
<b>Director, Clinical Content and CPD/CME</b>	Kathryn Ault Ziel, PhD
<b>Scientific Director</b>	Richard Kaderman, PhD
<b>Editorial</b>	Clayton Campbell Felix M China, MD Marilyn Fernandez, PhD Adam P Hustad Gloria Kelly, PhD Kemi Obajimi, PhD
<b>Creative Manager</b>	Fernando Rendina
<b>Graphic Designers</b>	Jessica Benitez Tamara Dabney Silvana Izquierdo
<b>Senior Manager, Special Projects</b>	Kirsten Miller
<b>Senior Production Editor</b>	Aura Herrmann
<b>Copy Editors</b>	Rosemary Hulce Pat Morrissey/Havlin Alexis Oneca Kyriaki Tsaganis
<b>Production Manager</b>	Tracy Potter
<b>Audio Production</b>	Frank Cesarano
<b>Web Master</b>	John Ribeiro
<b>Faculty Relations Manager</b>	Stephanie Bodanyi, CMP
<b>Continuing Education Administrator for Nursing</b>	Karen Gabel Speroni, BSN, MHSA, PhD, RN
<b>Contact Information</b>	Neil Love, MD Research To Practice One Biscayne Tower 2 South Biscayne Boulevard, Suite 3600 Miami, FL 33131 Fax: (305) 377-9998 Email: <a href="mailto:DrNeilLove@ResearchToPractice.com">DrNeilLove@ResearchToPractice.com</a>
<b>For CME/CNE Information</b>	Email: <a href="mailto:CE@ResearchToPractice.com">CE@ResearchToPractice.com</a>

Copyright © 2018 Research To Practice. All rights reserved.

The compact disc, Internet content and accompanying printed material are protected by copyright. No part of this program may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording or utilizing any information storage and retrieval system, without written permission from the copyright owner.

The opinions expressed are those of the presenters and are not to be construed as those of the publisher or grantors.

Participants have an implied responsibility to use the newly acquired information to enhance patient outcomes and their

own professional development. The information presented in this activity is not meant to serve as a guideline for patient management.

Any procedures, medications or other courses of diagnosis or treatment discussed or suggested in this activity should not be used by clinicians without evaluation of their patients' conditions and possible contraindications or dangers in use, review of any applicable manufacturer's product information and comparison with recommendations of other authorities.

---

## Lung Cancer Update

### A Continuing Medical Education Audio Series

---

#### OVERVIEW OF ACTIVITY

Traditional chemotherapy, surgery and radiation therapy have had a modest effect on long-term outcomes for patients with lung cancer. However, the advent of biologic and immunotherapeutic agents has led to recent improvements in disease-free and overall survival in select populations. In order to offer optimal patient care — including the option of clinical trial participation — clinicians must be well informed of these advances. Featuring information on the latest research developments, this program is designed to assist medical and radiation oncologists with the formulation of up-to-date strategies for the care of patients with lung cancer.

#### LEARNING OBJECTIVES

- Compare and contrast the mechanisms of action, efficacy and safety/toxicity of approved and investigational anti-PD-1/PD-L1 antibodies for the treatment of non-small cell lung cancer (NSCLC) to determine the current and/or potential utility of each in clinical practice.
- Appraise emerging research data documenting the benefits and risks of sequential anti-PD-L1 antibody therapy for patients with locally advanced, unresectable NSCLC who have not experienced disease progression after standard platinum-based chemotherapy concurrent with radiation therapy.
- Develop a genomic testing algorithm to assist in identifying appropriate patients eligible for protocol and clinical targeted treatment options.
- Consider published safety and efficacy data with available and emerging therapeutic strategies, and appropriately incorporate targeted therapies into the care of patients with identified tumor driver mutations or alterations.
- Educate patients about the side effects associated with recently approved novel agents and immunotherapeutic approaches, and provide preventive strategies to reduce or ameliorate these toxicities.
- Recall the design of ongoing clinical trials evaluating novel immunotherapeutic approaches alone or in combination with other systemic therapies for NSCLC, and counsel appropriate patients about availability and participation.

#### ACCREDITATION STATEMENT

Research To Practice is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

#### CREDIT DESIGNATION STATEMENT

Research To Practice designates this enduring material for a maximum of 2.25 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

#### AMERICAN BOARD OF INTERNAL MEDICINE (ABIM) — MAINTENANCE OF CERTIFICATION (MOC)

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 2.25 Medical Knowledge MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit. Please note, this program has been specifically designed for the following ABIM specialty: **medical oncology**. Personal information and data sharing: Research To Practice aggregates deidentified user data for program-use analysis, program development, activity planning and site improvement. We may provide *aggregate* and *deidentified* data to third parties, including commercial supporters. **We do not share or sell personally identifiable information to any unaffiliated third parties or commercial supporters. Please see our privacy policy at [ResearchToPractice.com/Privacy-Policy](#) for more information.**

#### HOW TO USE THIS CME ACTIVITY

This CME activity contains an audio component. To receive credit, the participant should review the CME information, listen to the audio tracks, complete the Post-test with a score of 80% or better and fill out the Educational Assessment and Credit Form located in the back of this booklet or on our website at [ResearchToPractice.com/LCU118/CME](#). The corresponding video program is available as an alternative at [ResearchToPractice.com/LCU118/Video](#).

*This activity is supported by educational grants from AbbVie Inc, AstraZeneca Pharmaceuticals LP, Bristol-Myers Squibb Company, Celgene Corporation, Genentech BioOncology, Lilly, Merck, Novartis and Takeda Oncology.*

---

Release date: April 2018; Expiration date: April 2019

## CME INFORMATION

### FACULTY AFFILIATIONS



**Matthew D Hellmann, MD**

Medical Oncologist  
Memorial Sloan Kettering  
Cancer Center  
New York, New York



**Lecia V Sequist, MD, MPH**

Associate Professor of Medicine  
Harvard Medical School  
Center for Thoracic Cancers  
Massachusetts General Hospital  
Cancer Center  
Boston, Massachusetts

### EDITOR



**Neil Love, MD**

Research To Practice  
Miami, Florida

### CONTENT VALIDATION AND DISCLOSURES

Research To Practice (RTP) is committed to providing its participants with high-quality, unbiased and state-of-the-art education. We assess conflicts of interest with faculty, planners and managers of CME activities. Conflicts of interest are identified and resolved through a conflict of interest resolution process. In addition, all activity content is reviewed by both a member of the RTP scientific staff and an external, independent physician reviewer for fair balance, scientific objectivity of studies referenced and patient care recommendations.

**FACULTY** — The following faculty (and their spouses/partners) reported relevant conflicts of interest, which have been resolved through a conflict of interest resolution process: **Dr Hellmann** — Consulting Agreements: AstraZeneca Pharmaceuticals LP, Bristol-Myers Squibb Company, Genentech BioOncology, Janssen Biotech Inc, Merck, Novartis. **Dr Sequist** — Advisory Committee: AstraZeneca Pharmaceuticals LP, Bristol-Myers Squibb Company, Genentech BioOncology, Pfizer Inc; Contracted Research: AstraZeneca Pharmaceuticals LP, Boehringer Ingelheim Pharmaceuticals Inc, Merrimack Pharmaceuticals Inc, Novartis.

**EDITOR** — **Dr Love** is president and CEO of Research To Practice, which receives funds in the form of educational grants to develop CME activities from the following commercial interests: AbbVie Inc, Acerta Pharma, Adaptive Biotechnologies, Agendia Inc, Agios Pharmaceuticals Inc, Amgen Inc, Ariad Pharmaceuticals Inc, Array BioPharma Inc, Astellas Pharma Global Development Inc, AstraZeneca Pharmaceuticals LP, Baxalta Inc, Bayer HealthCare Pharmaceuticals, Biodesix Inc, bioTheragnostics Inc, Boehringer Ingelheim Pharmaceuticals Inc, Boston Biomedical Pharma Inc, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, CTI BioPharma Corp, Dendreon Pharmaceuticals Inc, Eisai Inc, Exelixis Inc, Foundation Medicine, Genentech BioOncology, Genomic Health Inc, Gilead Sciences Inc, Halozyme Inc, ImmunoGen Inc, Incyte Corporation, Infinity Pharmaceuticals Inc, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, Jazz Pharmaceuticals Inc, Kite Pharma Inc, Lexicon Pharmaceuticals Inc, Lilly, Medivation Inc, a Pfizer Company, Merck, Merrimack Pharmaceuticals Inc, Myriad Genetic Laboratories Inc, NanoString Technologies, Natera Inc, Novartis, Novocure, Onyx Pharmaceuticals, an Amgen subsidiary, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Prometheus Laboratories Inc, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, Sanofi Genzyme, Seattle Genetics, Sigma-Tau Pharmaceuticals Inc, Sirtex Medical Ltd, Spectrum Pharmaceuticals Inc, Taiho Oncology Inc, Takeda Oncology, Tesaro Inc, Teva Oncology and Tokai Pharmaceuticals Inc.

**RESEARCH TO PRACTICE STAFF AND EXTERNAL REVIEWERS** — The scientific staff and reviewers for Research To Practice have no relevant conflicts of interest to disclose.

*This educational activity contains discussion of published and/or investigational uses of agents that are not indicated by the Food and Drug Administration. Research To Practice does not recommend the use of any agent outside of the labeled indications. Please refer to the official prescribing information for each product for discussion of approved indications, contraindications and warnings. The opinions expressed are those of the presenters and are not to be construed as those of the publisher or grantors.*

If you would like to discontinue your complimentary subscription to *Lung Cancer Update*, please email us at [Info@ResearchToPractice.com](mailto:Info@ResearchToPractice.com), call us at (800) 648-8654 or fax us at (305) 377-9998. Please include your full name and address, and we will remove you from the mailing list.

Tracks 1-26

<p><b>Track 1</b> Thyroid dysfunction during checkpoint blockade in non-small cell lung cancer (NSCLC)</p> <p><b>Track 2</b> Pathophysiology of thyroid dysfunction associated with immune checkpoint inhibitors</p> <p><b>Track 3</b> Endocrinopathies induced by immune checkpoint inhibitors</p> <p><b>Track 4</b> Risk of pneumonitis with anti-PD-1/PD-L1 antibodies</p> <p><b>Track 5</b> Safety of re-treatment with immunotherapy after immune-related toxicity in patients treated with checkpoint inhibitors</p> <p><b>Track 6</b> Duration of immune checkpoint inhibitor therapy</p> <p><b>Track 7</b> Checkpoint inhibitors in patients with preexisting autoimmune disorders</p> <p><b>Track 8</b> Clinical utility of immune checkpoint inhibitors in patients with solid organ transplant, HIV or hepatitis B or C</p> <p><b>Track 9</b> Response to immune checkpoint inhibitors in patients with targetable driver mutations</p> <p><b>Track 10</b> Efficacy and tolerability of neoadjuvant nivolumab in early-stage, resectable NSCLC</p> <p><b>Track 11</b> <b>Case:</b> A 75-year-old woman with Stage II large cell neuroendocrine tumor of the lung experiences a complete pathologic response to neoadjuvant nivolumab on a clinical trial</p> <p><b>Track 12</b> PD-L1 expression and prediction of response to immune checkpoint inhibitors</p> <p><b>Track 13</b> Correlation between tumor mutation burden and response to immunotherapy</p> <p><b>Track 14</b> PACIFIC: Results of a Phase III trial of durvalumab after chemoradiation therapy for Stage III NSCLC</p> <p><b>Track 15</b> Incidence and management of chemoradiation-associated pneumonitis; lack of a significant</p>	<p>increase in pneumonitis with durvalumab versus placebo on the PACIFIC trial</p> <p><b>Track 16</b> Potential explanations for the synergy of durvalumab and chemoradiation therapy on the PACIFIC trial</p> <p><b>Track 17</b> Integration of durvalumab into the therapeutic algorithm for Stage III NSCLC</p> <p><b>Track 18</b> Ongoing trials of neoadjuvant anti-PD-1/PD-L1 antibodies in Stage III lung cancer</p> <p><b>Track 19</b> Results of CheckMate 012: Activity and tolerability of nivolumab with ipilimumab as first-line therapy for advanced NSCLC</p> <p><b>Track 20</b> Nivolumab/ipilimumab for advanced small cell lung cancer</p> <p><b>Track 21</b> MYSTIC trial: Lack of progression-free survival benefit with durvalumab/tremelimumab versus platinum-based chemotherapy for previously untreated metastatic NSCLC</p> <p><b>Track 22</b> FLAURA study results: Improvement in progression-free survival and tolerability with osimertinib versus erlotinib or gefitinib as first-line therapy for EGFR-mutated advanced NSCLC</p> <p><b>Track 23</b> Ongoing trials evaluating immune checkpoint inhibitor-based regimens in NSCLC</p> <p><b>Track 24</b> Biological and pharmacological differences among checkpoint inhibitors</p> <p><b>Track 25</b> Updated results of the Phase II IFCT-1501 MAPS2 trial of second- or third-line nivolumab in malignant pleural mesothelioma</p> <p><b>Track 26</b> CheckMate 026: Results from a Phase III trial of nivolumab versus chemotherapy as first-line therapy for patients with Stage IV or recurrent PD-L1-positive NSCLC</p>
---	---

## Interview with Lecia V Sequist, MD, MPH

### Tracks 1-17

- |                 |  |                 |  |
|-----------------|--|-----------------|--|
| <b>Track 1</b>  | <b>Case:</b> A 75-year-old woman and former smoker with recurrent squamous cell carcinoma (SCC) of the lung is found to harbor a MET exon 14 skipping mutation and receives crizotinib | <b>Track 11</b> | Efficacy of immune checkpoint inhibitors versus chemotherapy in patients with EGFR wild-type versus mutated NSCLC  |
| <b>Track 2</b>  | Perspective on the PACIFIC trial results   | <b>Track 12</b> | <b>Case:</b> A 68-year-old woman and moderate smoker with newly diagnosed metastatic adenocarcinoma of the lung, no targetable mutations and a high PD-L1 tumor proportion score (TPS) |
| <b>Track 3</b>  | Activity of gemcitabine monotherapy in SCC of the lung   | <b>Track 13</b> | Pseudoprogression in patients receiving immune checkpoint inhibitors   |
| <b>Track 4</b>  | Incidence of MET exon 14 skipping mutations in SCC of the lung; response to crizotinib   | <b>Track 14</b> | Re-treatment with immunotherapy after immune-related toxicity in patients who receive anti-PD-1 antibodies   |
| <b>Track 5</b>  | Acquired resistance to crizotinib in patients with NSCLC and MET exon 14 skipping mutations  | <b>Track 15</b> | <b>Case:</b> A 57-year-old man and former smoker with symptomatic KRAS mutation-positive adenocarcinoma of the lung and a high PD-L1 TPS   |
| <b>Track 6</b>  | <b>Case:</b> A 50-year-old woman and never smoker with advanced adenocarcinoma of the lung and an EGFR L858R mutation  | <b>Track 16</b> | Perspective on the clinical utility of ramucirumab or bevacizumab in advanced NSCLC  |
| <b>Track 7</b>  | Efficacy and tolerability of afatinib for metastatic EGFR L858R mutation-positive adenocarcinoma of the lung   | <b>Track 17</b> | <b>Case:</b> A 63-year-old woman with heavily pretreated EGFR L858R mutation-positive adenocarcinoma of the lung who expresses interest in nivolumab/ipilimumab                        |
| <b>Track 8</b>  | Activity of osimertinib in patients with leptomeningeal disease from EGFR-mutated advanced NSCLC   |                 |  |
| <b>Track 9</b>  | FLAURA study results: Osimertinib versus erlotinib or gefitinib as first-line therapy for EGFR-mutated advanced NSCLC  |                 |  |
| <b>Track 10</b> | Clinical implications of the FLAURA trial results on T790M resistance mutation testing   |                 |  |

## Video Program

View the corresponding video interviews with (from left) Drs Hellmann and Sequist by Dr Love at [www.ResearchToPractice.com/LCU118/Video](http://www.ResearchToPractice.com/LCU118/Video)



## SELECT PUBLICATIONS

A phase I/II study of MK-3475 (SCH900475) in combination with chemotherapy or immunotherapy in patients with locally advanced or metastatic non-small cell lung carcinoma. [NCT02039674](#)

A phase III, open-label, randomized study of atezolizumab (MPDL3280A, anti-PD-L1 antibody) in combination with carboplatin + paclitaxel with or without bevacizumab compared with carboplatin + paclitaxel + bevacizumab in chemotherapy-naïve patients with stage IV non-squamous non-small cell lung cancer. [NCT02366143](#)

A phase III randomized, open-label, multi-center, global study of MEDI4736 in combination with tremelimumab therapy or MEDI4736 monotherapy versus standard of care platinum-based chemotherapy in first line treatment of patients with advanced or metastatic non-small-cell lung cancer (NSCLC) (MYSTIC). [NCT02453282](#)

Antonia SJ et al; PACIFIC Investigators. Durvalumab after chemoradiotherapy in stage III non-small-cell lung cancer. *N Engl J Med* 2017;377(20):1919-29.

Carbone D et al. First-line nivolumab in stage IV or recurrent non-small-cell lung cancer. *N Engl J Med* 2017;376(25):2415-26.

Chaft JE et al. Neoadjuvant nivolumab in early-stage, resectable non-small cell lung cancers. *Proc ASCO* 2017;[Abstract 8508](#).

Goldman JW et al. Nivolumab (N) plus ipilimumab (I) as first-line (1L) treatment for advanced (adv) NSCLC: 2-yr OS and long-term outcomes from CheckMate 012. *Proc ASCO* 2017;[Abstract 9093](#).

Heist RS et al. Acquired resistance to crizotinib in NSCLC with MET exon 14 skipping. *J Thorac Oncol* 2016;11(8):1242-5.

Hellmann MD et al. Nivolumab (nivo) ± ipilimumab (ipi) in advanced small-cell lung cancer (SCLC): First report of a randomized expansion cohort from CheckMate 032. *Proc ASCO* 2017;[Abstract 8503](#).

Hellmann MD et al. Nivolumab plus ipilimumab as first-line treatment for advanced non-small-cell lung cancer (CheckMate 012): Results of an open-label, phase 1, multicohort study. *Lancet Oncol* 2017;18(1):31-41.

Lee CK et al. Checkpoint inhibitors in metastatic EGFR-mutated non-small cell lung cancer — A meta-analysis. *J Thorac Oncol* 2017;12(2):403-7.

Leonardi GC et al. Use of PD-1 pathway inhibitors among patients with non-small cell lung cancer (NSCLC) and preexisting autoimmune disorders. *Proc ASCO* 2017;[Abstract 9081](#).

Naidoo J et al. Pneumonitis in patients treated with anti-programmed death-1/programmed death ligand 1 therapy. *J Clin Oncol* 2017;35(7):709-17.

Osorio JC et al. Antibody-mediated thyroid dysfunction during T-cell checkpoint blockade in patients with non-small-cell lung cancer. *Ann Oncol* 2017;28(3):583-9.

Paz-Ares L et al. PACIFIC: A double-blind, placebo-controlled phase III study of durvalumab after chemoradiation therapy (CRT) in patients with stage III, locally advanced, unresectable NSCLC. *Proc ESMO* 2017;[Abstract LBA1\\_PR](#).

Rai R et al. Immunotherapy in patients with concurrent solid organ transplant, HIV, and hepatitis B and C. *Proc ESMO* 2017;[Abstract 11489PD](#).

Ramalingam SS et al. Osimertinib vs standard of care (SoC) EGFR-TKI as first-line therapy in patients (pts) with EGFRm advanced NSCLC: FLAURA. *Proc ESMO* 2017;[Abstract LBA2\\_PR](#).

Sabari JK et al. PD-L1 expression and response to immunotherapy in patients with MET exon 14-altered non-small cell lung cancers (NSCLC). *Proc ASCO* 2017;[Abstract 8512](#).

Santini FC et al. Safety of retreatment with immunotherapy after immune-related toxicity in patients with lung cancers treated with anti-PD(L)-1 therapy. *Proc ASCO* 2017;[Abstract 9012](#).

Soria JC et al; FLAURA Investigators. Osimertinib in untreated EGFR-mutated advanced non-small-cell lung cancer. *N Engl J Med* 2018;378(2):113-25.

Yang JCH et al. Osimertinib activity in patients (pts) with leptomeningeal (LM) disease from non-small cell lung cancer (NSCLC): Updated results from BLOOM, a phase I study. *Proc ASCO* 2016;[Abstract 9002](#).

Zalcman G et al. Second or 3rd line nivolumab (Nivo) versus nivo plus ipilimumab (Ipi) in malignant pleural mesothelioma (MPM) patients: Updated results of the IFCT-1501 MAPS2 randomized phase 2 trial. *Proc ESMO* 2017;[Abstract LBA58\\_PR](#).

## QUESTIONS (PLEASE CIRCLE ANSWER):

1. Which of the following immune-related toxicities is most common among patients with NSCLC treated with an anti-PD-1 antibody?
  - a. Colitis
  - b. Pneumonitis
  - c. Pruritus
  - d. Thyroid dysfunction
2. Patients with NSCLC who receive anti-PD-1/PD-L1 antibodies and experience treatment-associated pneumonitis can develop this complication at any time during treatment.
  - a. True
  - b. False
3. Results of the Phase III FLAURA study comparing first-line osimertinib to either erlotinib or gefitinib for patients with advanced EGFR-mutant NSCLC demonstrated a significant improvement in progression-free survival for patients who received osimertinib.
  - a. True
  - b. False
4. A study presented at ASCO 2017 evaluating neoadjuvant nivolumab for patients with early-stage, resectable NSCLC found that nivolumab \_\_\_\_\_ delay surgery.
  - a. Did
  - b. Did not
5. Which of the following categories reflects the mechanism of action of durvalumab?
  - a. Antibody-drug conjugate
  - b. Anti-PD-1 antibody
  - c. Anti-PD-L1 antibody
6. Osimertinib \_\_\_\_\_ marked activity in patients with leptomeningeal metastases from EGFR mutation-positive advanced NSCLC.
  - a. Does not exhibit
  - b. Exhibits
7. The Phase III MYSTIC trial evaluating durvalumab and tremelimumab versus platinum-based chemotherapy for patients with previously untreated metastatic NSCLC \_\_\_\_\_ a statistically significant improvement in progression-free survival for patients who received the anti-PD-L1/CTLA-4 antibody combination.
  - a. Demonstrated
  - b. Did not demonstrate
8. A poster discussion presented by Hellmann and colleagues at the 2017 ASCO meeting demonstrated that among patients with NSCLC who developed immune-related adverse events (irAEs) but experienced disease improvement, re-treatment with immunotherapy was associated with recurrent or new irAEs in 50% of cases.
  - a. True
  - b. False
9. Results of the Phase III PACIFIC trial did not demonstrate a statistically significant improvement in progression-free survival with the addition of durvalumab compared to placebo after chemoradiation therapy for patients with Stage III NSCLC.
  - a. True
  - b. False
10. Although most of the major targetable mutations identified to date in lung cancer are predominantly found in patients with adenocarcinoma, \_\_\_\_\_ are more common in SCC of the lung as compared to the other driver mutations.
  - a. ALK rearrangements
  - b. EGFR mutations
  - c. MET exon 14 skipping mutations
  - d. ROS1 rearrangements



Research To Practice is committed to providing valuable continuing education for oncology clinicians, and your input is critical to helping us achieve this important goal. Please take the time to assess the activity you just completed, with the assurance that your answers and suggestions are strictly confidential.

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

**How would you characterize your level of knowledge on the following topics?**

4 = Excellent    3 = Good    2 = Adequate    1 = Suboptimal

	<b>BEFORE</b>	<b>AFTER</b>
<b>PACIFIC: Results of a Phase III trial of durvalumab as sequential treatment for locally advanced, unresectable NSCLC</b>	4 3 2 1	4 3 2 1
<b>Results of the Phase III FLAURA trial: Improvement in progression-free survival and tolerability with osimertinib versus erlotinib or gefitinib as first-line therapy for EGFR-mutated advanced NSCLC</b>	4 3 2 1	4 3 2 1
<b>Safety of re-treatment with immunotherapy after immune-related toxicity in patients with NSCLC treated with immune checkpoint inhibitors</b>	4 3 2 1	4 3 2 1
<b>Incidence of MET exon 14 skipping mutations in SCC of the lung</b>	4 3 2 1	4 3 2 1
<b>Correlation between high mutational burden, high PD-L1 TPS and enriched response rate to first-line nivolumab on the Phase III CheckMate 026 trial</b>	4 3 2 1	4 3 2 1

**Practice Setting:**

- Academic center/medical school   
  Community cancer center/hospital   
  Group practice  
 Solo practice   
  Government (eg, VA)   
  Other (please specify).....

**Approximately how many new patients with lung cancer do you see per year?** ..... patients

**Was 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 this activity (select all that apply).**

- 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): .....

**If you intend to implement any changes in your practice, please provide 1 or more examples:**

.....  
 .....

**The content of this activity matched my current (or potential) scope of practice.**

- Yes     No   
 If no, please explain: .....

**Please respond to the following learning objectives (LOs) by circling the appropriate selection:**

4 = Yes    3 = Will consider    2 = No    1 = Already doing    N/M = LO not met    N/A = Not applicable

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

- Compare and contrast the mechanisms of action, efficacy and safety/toxicity of approved and investigational anti-PD-1/PD-L1 antibodies for the treatment of non-small cell lung cancer (NSCLC) to determine the current and/or potential utility of each in clinical practice..... 4 3 2 1 N/M N/A
- Appraise emerging research data documenting the benefits and risks of sequential anti-PD-L1 antibody therapy for patients with locally advanced, unresectable NSCLC who have not experienced disease progression after standard platinum-based chemotherapy concurrent with radiation therapy. .... 4 3 2 1 N/M N/A
- Develop a genomic testing algorithm to assist in identifying appropriate patients eligible for protocol and clinical targeted treatment options..... 4 3 2 1 N/M N/A

**EDUCATIONAL ASSESSMENT AND CREDIT FORM (continued)**

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

- Consider published safety and efficacy data with available and emerging therapeutic strategies, and appropriately incorporate targeted therapies into the care of patients with identified tumor driver mutations or alterations. . . . . 4 3 2 1 N/M N/A
- Educate patients about the side effects associated with recently approved novel agents and immunotherapeutic approaches, and provide preventive strategies to reduce or ameliorate these toxicities. . . . . 4 3 2 1 N/M N/A
- Recall the design of ongoing clinical trials evaluating novel immunotherapeutic approaches alone or in combination with other systemic therapies for NSCLC, and counsel appropriate patients about availability and participation. . . . . 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?**

Yes       No

If no, please explain: .....

**PART 2 — Please tell us about the faculty and editor for this educational activity**

	4 = Excellent	3 = Good	2 = Adequate	1 = Suboptimal	
<b>Faculty</b>	<b>Knowledge of subject matter</b>				<b>Effectiveness as an educator</b>
Matthew D Hellmann, MD	4	3	2	1	4 3 2 1
Lecia V Sequist, MD, MPH	4	3	2	1	4 3 2 1
<b>Editor</b>	<b>Knowledge of subject matter</b>				<b>Effectiveness as an educator</b>
Neil Love, MD	4	3	2	1	4 3 2 1

**REQUEST FOR CREDIT — Please print clearly**

Name: ..... Specialty: .....

Professional Designation:

MD     DO     PharmD     NP     RN     PA     Other: .....

Street Address: ..... Box/Suite: .....

City, State, Zip: .....

Telephone: ..... Fax: .....

Email: .....

**Research To Practice designates this enduring material for a maximum of 2.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.**

**I certify my actual time spent to complete this educational activity to be \_\_\_\_\_ hour(s).**

Signature: ..... Date: .....

**I would like Research To Practice to submit my CME credits to the ABIM to count toward my MOC points. I understand that because I am requesting MOC credit, Research To Practice will be required to share personally identifiable information with the ACCME and ABIM.**

**Additional information for MOC credit (required):**

Date of Birth (Month and Day Only): \_\_\_ / \_\_\_ / \_\_\_ ABIM 6-Digit ID Number: .....

**If you are not sure of your ABIM ID, please visit <http://www.abim.org/online/findcand.aspx>.**

QID 1885

**The expiration date for this activity is April 2019. To obtain a certificate of completion and receive credit for this activity, please complete the Post-test, fill out the Educational Assessment and Credit Form and fax both to (800) 447-4310, or mail both to Research To Practice, One Biscayne Tower, 2 South Biscayne Boulevard, Suite 3600, Miami, FL 33131. You may also complete the Post-test and Educational Assessment online at [www.ResearchToPractice.com/LCU118/CME](http://www.ResearchToPractice.com/LCU118/CME).**

# Lung Cancer™

U P D A T E

Neil Love, MD  
Research To Practice  
One Biscayne Tower  
2 South Biscayne Boulevard, Suite 3600  
Miami, FL 33131

PRSR1 STD  
U.S. POSTAGE  
PAID  
MIAMI, FL  
PERMIT #1317

Copyright © 2018 Research To Practice.

This activity is supported by educational grants from AbbVie Inc, AstraZeneca Pharmaceuticals LP, Bristol-Myers Squibb Company, Celgene Corporation, Genentech BioOncology, Lilly, Merck, Novartis and Takeda Oncology.

Research  
To Practice®

Research To Practice is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Release date: April 2018

Expiration date: April 2019

Estimated time to complete: 2.25 hours