

CASES INSIGHTS INTO LUNG CANCER

August, 2019 Washington, DC, US

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MEETING OBJECTIVES



To gain advisors' perspectives on the following

- > Management of patients with NSCLC and EGFR or ALK mutations
- > Current use of treatment options including immunotherapy in advanced NSCLC
- > Treatment of progressive disease



REPORT SNAPSHOT



- > A moderated roundtable discussion focusing on treatment of NSCLC was held on August 24, 2019, in Washington, DC
- > Disease state and data presentations were developed in conjunction with a medical expert from Indiana University
- > The group of advisors comprised 12 community oncologists
- Insights on the following therapies were obtained: afatinib, alectinib, atezolizumab, bevacizumab, brigatinib, carboplatin, ceritinib, crizotinib, dacomitinib, docetaxel, erlotinib, gefitinib, gemcitabine, lorlatinib, *nab*-paclitaxel, necitumumab, nivolumab, osimertinib, pembrolizumab, pemetrexed, ramucirumab
- > Data collection was accomplished through use of audience response system questioning and in-depth moderated discussion

APTITUDE HEALTH







Participant Demographics

PARTICIPANT DEMOGRAPHICS (N = 9)



What percentage of the patients that you see have NSCLC?

Approximately what percentage of your patients with NSCLC have adenocarcinoma?



PARTICIPANT DEMOGRAPHICS (N = 9)



Approximately what percentage of your patients with NSCLC have squamous histology?



Approximately how many patients with EGFR-mutated NSCLC have you treated in the last year?





PARTICIPANT DEMOGRAPHICS (N = 9)











CASES

Key Insights

TREATMENT OF *EGFR* MUTATION-, *ALK* MUTATION-, AND *NTRK* FUSION-POSITIVE NSCLC

TOPLINE TAKEAWAYS: TREATMENT OF EGFR MUTATION-, ALK MUTATION-, AND NTRK FUSION-POSITIVE NSCLC







TREATMENT OF EGFR MUTATION- ALK MUTATION-, OR NTRK FUSION-POSITIVE NSCLC



Topic Insights and Data



QUOTES: TREATMENT OF EGFR MUTATION-, ALK MUTATION-, AND NTRK FUSION-POSITIVE NSCLC









CASES

Key Insights

FIRST-LINE TREATMENT OF PAN-WILD-TYPE SQUAMOUS AND NONSQUAMOUS NSCLC

TOPLINE TAKEAWAYS: FIRST-LINE TREATMENT OF PAN– WILD-TYPE SQUAMOUS AND NON-SQUAMOUS NSCLC





FIRST-LINE TREATMENT OF PAN–WILD-TYPE SQUAMOUS AND NON-SQUAMOUS NSCLC

Topic

Insights and Data

QUOTES: FIRST-LINE TREATMENT OF PAN-WILD-TYPE SQUAMOUS AND NON-SQUAMOUS NSCLC

Key Insights

CURRENT TREATMENT OF PROGRESSIVE DISEASE

TOPLINE TAKEAWAYS: CURRENT TREATMENT OF PROGRESSIVE DISEASE

CURRENT TREATMENT OF PROGRESSIVE DISEASE

Topic

Insights and Data

QUOTES: CURRENT TREATMENT OF PROGRESSIVE DISEASE CASES

Advisor Key Takeaways

KEY TAKEAWAYS*

KEY TAKEAWAYS*

*Two advisors did not provide key takeaways.

Strategic Considerations

STRATEGIC CONSIDERATIONS

ARS Data – Baseline Usage Polling

FOR A FIRST-LINE NSCLC PATIENT, I GENERALLY HAVE INFORMATION ON THE FOLLOWING (CHECK ALL THAT APPLY) (N = 9)

HOW MANY PATIENTS WITH NSCLC HAVE YOU TREATED WITH ALECTINIB? (N = 10)

HOW MANY PATIENTS WITH NSCLC HAVE YOU TREATED WITH CRIZOTINIB? (N = 11)

HOW MANY PATIENTS WITH NSCLC HAVE YOU TREATED WITH CERITINIB? (N = 10)

APTITUDE HEALTH

HOW MANY PATIENTS WITH NSCLC HAVE YOU TREATED WITH BRIGATINIB? (N = 10)

HOW MANY PATIENTS WITH NSCLC HAVE YOU TREATED WITH LORLATINIB? (N = 10)

HOW MANY PATIENTS WITH NSCLC HAVE YOU TREATED WITH ERLOTINIB? (N = 10)

HOW MANY PATIENTS WITH NSCLC HAVE YOU TREATED WITH AFATINIB? (N = 10)

APTITUDE HEALTH

HOW MANY PATIENTS WITH NSCLC HAVE YOU TREATED WITH GEFITINIB? (N = 10)

APTITUDE HEALTH

HOW MANY PATIENTS WITH NSCLC HAVE YOU TREATED WITH OSIMERTINIB? (N = 11)

HOW MANY PATIENTS WITH NSCLC HAVE YOU TREATED WITH DACOMITINIB? (N = 10)

CASES

ARS Data – Treatment of *EGFR* Mutation-, *ALK* Mutation-, and *NTRK* Fusion-Positive NSCLC

PATIENT CASE

> A 49-year-old Asian-American female never-smoker presents with dyspnea on

WHAT IS THE CHANCE THIS PATIENT WILL HAVE AN EGFR MUTATION? (N = 11)

THE PATIENT'S TUMOR RETURNS POSITIVE FOR EXON 19 MUTATION. WHICH OF THE FOLLOWING AGENTS WOULD YOU PREFER FOR FRONTLINE TREATMENT OF *EGFR*-MUTATED NSCLC? (N = 11)

CASES

PATIENT CASE

> A 60-year-old woman presents with a persistent cough and is found on CXR to

YOUR CHOICE OF *EGFR* TKI IN THIS PATIENT WOULD BE: (N = 11)

CASES

THE PATIENT IS TREATED WITH ERLOTINIB AND HAS A RESPONSE LASTING 18 MONTHS. SHE IS RETESTED AT THAT TIME AND HAS THE T790M MUTATION, AND IS **TREATED WITH OSIMERTINIB. SHE HAS A RESPONSE THAT LASTS 12 MONTHS BUT** NOW HAS DISEASE PROGRESSION AT MULTIPLE SITES. REXAMPLE PURPOSES ONLY

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biopsy

bevacizumab

APTITUDE HEALTH

alezulizuliau + bevacizumab

CASES

CASES

ARS Data – First-Line Treatment of Pan–Wild-Type Squamous and Non-Squamous NSCLC

HOW OFTEN HAVE YOU ORDERED PD-L1 TESTING FOR YOUR NSCLC PATIENTS? (N = 11)

HOW MANY PATIENTS WITH NSCLC HAVE YOU TREATED WITH NIVOLUMAB? (N = 10)

HOW MANY PATIENTS WITH NSCLC HAVE YOU TREATED WITH PEMBROLIZUMAB? (N = 10)

HOW MANY PATIENTS WITH NSCLC HAVE YOU TREATED WITH ATEZOLIZUMAB? (N = 10)

APTITUDE HEALTH

HOW MANY PATIENTS WITH NSCLC HAVE YOU TREATED WITH BEVACIZUMAB? (N = 9)

PATIENT CASE

> A 65-year-old WF with 40 pk-yr smoking hx presents with cough and DOE. CXR

WHICH OF THE FOLLOWING WOULD YOU CONSIDER IN THIS PATIENT? (N = 10)

APTITUDE HEALTH

PATIENT DOES WELL ON INITIAL CHEMOTHERAPY (PEM-CARBO-BEV). SX RESOLVE; PLEURAL EFFUSION DRIES UP. THE R HILAR MASS SHRINKS TO 1.5 CM AND THE R PARATRACHEAL NODES DECREASE SUBSTANTIALLY. THERE ARE NO NEW SITES OF **CANCER. AFTER 6 CYCLES OF CHEMO, PATIENT IS ASKED TO CONSIDER** MAINTENANCE THERAPY.

WHICH OF THE FOLLOWING WOULD BE YOUR NEXT APPROACH? (N = 9)

CASES

PATIENT CASE

> A 75-year-old male former smoker (1–1.5 ppd × 20 yr; quit 1980) initially presented

WHAT WOULD YOU DO NEXT? (N = 8)

OVER THE PROCEEDING 2–3 WEEKS, PAIN IMPROVED BUT DID NOT RESOLVE. HE NOTED EPISTAXIS AFTER DENOSUMAB, WHICH SPONTANEOUSLY RESOLVED. **APPETITE REMAINED INTACT. THERE WERE NO SEQUELAE POST-SRS. PD-L1 TESTING RETURNED (+) AT 80%. ALL MOLECULAR MARKERS, INCLUDING ALK, EGFR,** ROS1, ETC WERE (-).

HOW WOULD YOU TREAT THIS PATIENT NOW? (N = 10)

CASES

PATIENT CASE

> A 75-year-old AAM with 80 pk-yr smoking hx presents with chest and RUQ pain.

WHICH OF THE FOLLOWING REGIMENS IS INAPPROPRIATE FOR THIS PATIENT? (N = 9)

ARS Data – Current Treatment of Progressive Disease

CASES

FOR A SECOND-LINE NSCLC PATIENT WITH EGFR MUTATION CASES TREATED WITH TKI, I GENERALLY (CHECK ALL THAT APPLY) (A = 16)OR EXAMPLE PURPOSES ONLY

Retest original biopsy

Perform liquid biopsy

Perform no additional testing

Rebiopsy

FOR A SECOND-LINE NSCLC PATIENT, I GENERALLY HAVE **INFORMATION ON THE FOLLOWING (CHECK ALL THAT** APPLY) (A = 63)OR EXAMPLE PURPOSES ONLY

THE OVERALL SURVIVAL ADVANTAGE SEEN WITH ATEZOLIZUMAB COMPARED WITH DOCETAXEL IN THE OAK TRIAL WAS ONLY IN PATIENTS TESTING POSITIVE FOR PD-L1 EXPRESSION (N = 9)

PATIENT CASE

> A 68-year-old male former smoker (40 pack-years) is diagnosed with stage IV

WHICH OF THE FOLLOWING IS YOUR MOST LIKELY COURSE CASES OF ACTION? (N = 10)

FOR EXAMPLE PURPOSES ONLY with pembrolizumab with nivolumab

PATIENT CASE

> A 72-year-old male is diagnosed with stage IV squamous carcinoma and receives

YOU WOULD NOW RECOMMEND (N = 10)

