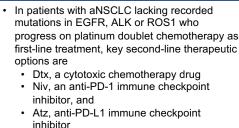
Comparative effectiveness of atezolizumab (Atz) versus docetaxel (Dtx) or nivolumab (Niv) in previouslytreated patients with advanced non-small cell lung cancer (aNSCLC) – a US real-world study

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Introduction

1316P

practices

A head-to-head comparison of the real-world effectiveness of Dtx. Niv and Atz is currently lacking

Objectives

To compare overall survival in patients previously exposed to platinum-based chemotherapy who initiated (1) Atz vs Dtx. or (2)

Atz vs Niv using real-world data from US clinical

Methods

 Treatment arms were selected from Flatiron Health database Inverse probability of treatment weighting (IPTW) was used to adjust for imbalances in 16



Dtx

(ref.)



2630

HR=0.79

(0.64 - 0.97)

Complete case

analysis

A total of 206, 500 and 2630

complete data for baseline

the Atz, Dtx and Niv arms

covariates after applying

IPTW (standardized mean

Balance was achieved

across all baseline

difference < 0.1)

eligible patients with



966

3910

0.8

(0.67 - 0.95)

Multiple



206

166

2624

0.75

(0.59 - 0.97)



Cancer stage at diagnosis ≥IIIB

175

446

2249

0.77

(0.61 - 0.98)

Nonsquamous histology

144

359

1715

0.7

(0.54 - 0.90)

mutations or prior targeted therapies 185

453

2401

0.78

(0.62 - 0.97)



Funding and disclosures

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Results Atz was on par with Niv and significantly Figure 1. IPTW-weighted KM curves for Atz vs Dtx, and Atz vs better than Dtx at improving overall survival Niv with robust 95% CI and log-rank p-values.

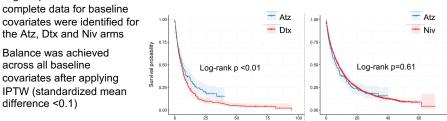


Table 1. Unadjusted sample sizes and adjusted hazard ratios (HR), 95% confidence intervals (in parentheses) and p-values for comparisons of Atz vs Dtx and Atz vs Niv in the overall eligible

Time (months)

- population and within subgroups examined. No recorded
- Time (months)
 - - Clinical Oncology, 2015. 33(30): p. 3488. Borghaei, H., et al., Nivolumab versus docetaxel in advanced nonsquamous non-small-cell lung cancer. New England Journal of Medicine, 2015, 373(17); p. 1627-1639. Rittmever, A., et al., Atezolizumab versus docetaxel in patients with previously treated non-small-cell lung cancer
 - (OAK); a phase 3, open-label, multicentre randomised controlled trial. The Lancet, 2017. 389(10066): p. 255-265. ALK/EGFR/ROS Mazieres, J., et al., Atezolizumab versus docetaxel in pretreated patients with NSCLC; final results from the randomized phase 2 POPLAR and phase 3 OAK clinical

150.

trials, Journal of Thoracic Oncology, 2021, 16(1); p. 140-

Conclusions

in the overall eligible population and

assumptions about missing values for

References

Masters, G.A., et al., Systemic therapy for stage IV non-

Oncology clinical practice guideline update, Journal of

small-cell lung cancer: American Society of Clinical

amonast all subgroups tested

· Results were robust to plausible

baseline confounders

- potential baseline confounders p=0.005 p = 0.02p = 0.01p = 0.03p=0.03p = 0.02Adjusted KM curves, hazard ratios were HR=1.07 1.08 1.08 1.05 0.94 1.08 Please direct any correspondence to: Niv estimated along with robust 95% confidence (0.89 - 1.28)(0.92 - 1.27)(0.9-1.29)(0.87 - 1.28)(0.75-1.18)(0.89-1.32)sreeram.ramagopalan@roche.com (ref.) intervals (CI) and p-values p = 0.47p = 0.33p = 0.43p = 0.59p = 0.41p = 0.61