were developed to predict time-to-event outcomes based on patient-level data from pooled CheckMate-067 &-069 trials. Risk equations were inserted into a discrete event simulation to estimate the average life-years (LYs) and quality-adjusted life-years (QALYs) that can be gained with various treatment sequences over a lifetime horizon. Treatment sequences and corresponding efficacy data sources are presented below (table 1). Utility weights for quality-adjustment of LYs were obtained from published literature.

**Results** Treatment sequences starting with IO followed by BRAF+MEK were associated with 2.9–4.3 years of additional survival and 2.2–3.3 years of quality-adjusted survival versus sequences starting with BRAF+MEK followed by anti-PD-1. After 1L IO, the time spent in the treatment-free interval (TFI) is 3.3–5.0 years. LYs, QALYs, and time spent in TFI were higher with sequences starting with anti-PD-1+anti-CTLA-4 vs. anti-PD-1 alone.

**Conclusions** In this sequencing model with 5-year data from randomized clinical trials, initiating 1L treatment with IO provided prolonged survival compared to initiating 1L treatment with BRAF+MEK. Time spent in TFI represents a significant proportion of survival time for patients on IO initiating sequences. Limitations of the study are the reliance on published information for BRAF+MEK, which could lead to biases due to unmeasured differences in the patient populations or trial conduct and the absence of data on 2L combination IO. Anti-PD-1+anti-CTLA-4 as second line option has not been included because of a lack of clinical evidence. Findings from this analysis will require validation in ongoing prospective randomized clinical trials.

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### Abstract 220

**REAL-WORLD OUTCOMES OF PATIENTS WITH RESECTED STAGE IIIA MELANOMA TREATED WITH ADJUVANT NIVOLUMAB**

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**Background** Nivolumab is approved in the US and EU for the adjuvant treatment of resected stage III-IV melanoma based on results from the CheckMate-238 clinical trial.1,2 However, the trial did not enroll any patients with Stage IIIA disease per the American Joint Committee on Cancer (AJCC) 7th edition criteria and included a limited number of patients with stage IIIA disease per the AJCC 8th edition.3,4 Recognizing the need for real-world data to assess outcomes of patients with resected stage IIIA melanoma treated with adjuvant nivolumab, a non-interventional study was conducted to investigate treatment patterns and outcomes among patients receiving adjuvant nivolumab within the US community practice setting.

**Methods** A retrospective analysis of the US Oncology Network’s iKnowMed medical data was conducted to examine patients with resected stage IIIA melanoma treated with adjuvant nivolumab between 01-Jan-2018 and 31-Dec-2019 with a follow-up period through 31-Mar-2020. Patients were followed for up to 27 months after their sentinel lymph node biopsy. Baseline demographic/clinical characteristics and treatment patterns were examined descriptively. Duration of treatment (DOT) and overall survival were analyzed using the Kaplan-Meier method.

**Results** A total of 58 patients with stage IIIA melanoma treated with adjuvant nivolumab were identified. Median age was 57.8 years (range 21.5–93.5), 62.1% were male, and 75.9% were Caucasian. Among patients with a documented Eastern Cooperative Oncology Group (ECOG) performance status (PS) ≥1, all had an ECOG score of 0 or 1. Median follow-up time was 12.6 months (range 0.3–25.1). Median DOT was 10.6 months (range 6.8–12.0). Overall survival rates at 12 and 24 months were 97.7% (95% CI 84.6–99.7) and 92.2% (95% CI 69.6–98.2), respectively.

**Conclusions** This real-world analysis of patients with stage IIIA melanoma treated with adjuvant nivolumab showed that a large proportion of patients were alive at the end of the study period, suggesting these patients have a favorable prognosis. Further investigation and follow-up is warranted to assess clinically relevant outcomes among patients with resected stage IIIA melanoma.

**Ethics Approval** The study was approved by US Oncology Inc’s Institutional Review Board, approval number 20-020E-2020-0224-01.

**REFERENCES**


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