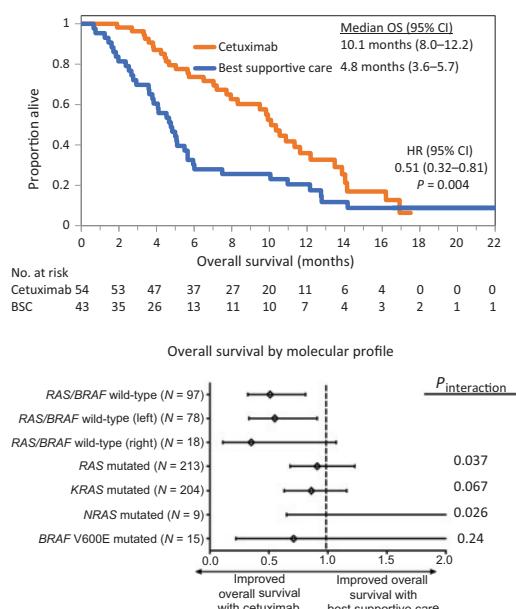


## CLINICAL CANCER RESEARCH

## HIGHLIGHTS

Selected Articles from This Issue

## Expanded and Subclonal RAS/BRAF V600E Mutations in CO.17



## Nivolumab + Ipilimumab vs. Sunitinib in Sarcomatoid aRCC

Tannir *et al.* | Page 78

Advanced renal cell carcinoma with sarcomatoid features (sRCC) is an aggressive cancer with limited therapeutic options. Nivolumab plus ipilimumab (NIVO+IPI) is approved for the first-line treatment of patients with advanced RCC and intermediate/poor-risk disease. Tannir and colleagues examined the efficacy and safety of NIVO+IPI versus sunitinib (SUN) in patients with sRCC and intermediate/poor-risk disease included in the phase III CheckMate 214 trial. NIVO+IPI was associated with long-term survival benefits and notable antitumor activity versus SUN in 139 patients with sRCC. Both overall and progression-free survival were improved with NIVO+IPI treatment. Confirmed overall response rates were improved in NIVO+IPI versus SUN (60.8% vs. 23.1%), with complete response rates of 18.9% and 3.1%, respectively. The safety profile of NIVO+IPI in this patient cohort was consistent with the overall trial population. These results support NIVO+IPI as a standard of care therapy for patients with sRCC and intermediate/poor-risk disease.

## Stromal Heterogeneity and Pancreatic Cancer Subtype

Ogawa *et al.* | Page 107

Pancreatic cancer is characterized by abundant and highly heterogeneous desmoplastic stroma. Within human pancreatic cancer tissues, Ogawa and colleagues identified two mutually exclusive fibroblast subpopulations, characterized by a smooth muscle actin (ACTA2)-dominant and fibroblast activation protein (FAP)-dominant fibroblasts, respectively. A pixel-by-pixel image analysis system was developed to differentiate these principal fibroblast subpopulations. Image analysis of fibroblast subpopulations, intratumoral collagen and CD8<sup>+</sup> T cells defined three distinct stroma types differentially associated with survival, immunity and molecular features. This study quantitatively characterized inter- and intratumoral heterogeneity of pancreatic cancer stroma, underscoring the importance of stroma-based tumor subtyping in facilitating the development of antstromal therapies.

## Dexamethasone Limits Anti-PD-1 Benefit for GBM

Iorgulescu *et al.* | Page 276

Dexamethasone is commonly administered to patients with glioblastoma multiforme (GBM) due to the development of tumor-associated edema; however, evidence has suggested that corticosteroids limit the efficacy of immunotherapy. Iorgulescu and colleagues assessed the relationship between dexamethasone and anti-PD-1 efficacy in GBM. Concurrent dexamethasone treatment reduced the efficacy of anti-PD-1 in mouse models of GBM. The infiltration of T lymphocytes, myeloid and NK cells was decreased, as was the infiltration of T cells. In a retrospective analysis, GBM patients receiving concurrent dexamethasone and PD-L1 inhibition had poorer overall survival compared to PD-L1 inhibition alone. These results indicate that dexamethasone treatment limits the effectiveness of immune checkpoint blockade.

# Clinical Cancer Research

## Selected Articles from This Issue

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