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Retrospective Study

Impact of RAS and BRAF mutations on carcinoembryonic antigen production and pattern of colorectal metastases

May Cho, Chie Akiba, Cecilia Lau, David Smith, Mijhan Telatar, Michelle Afkhami, Stephen Sentovich, Kurt Melstrom, Marwan Fakih

Abstract

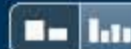
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Aim: To investigate the impact of RAS and BRAF mutations on the pattern of metastatic disease and carcinoembryonic antigen [CEA] production.

Methods: In this retrospective study, we investigated the impact of RAS and BRAF mutational status on pattern of metastatic disease and CEA production. Only patients presenting with a newly diagnosed metastatic colorectal cancer were included. Patients' characteristics, primary tumor location, site of metastatic disease and CEA at presentation were compared between those with and without RAS and BRAF mutations.

Results: Among 174 patients, mutations in KRAS, NRAS and BRAF were detected in 47%, 3% and 6% respectively. RAS mutations [KRAS and NRAS]

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