

V600E BRAF mutation tied to worse survival in CRC liver mets

May 21 2018

(HealthDay)—For patients undergoing resection of colorectal liver metastases (CRLM), the presence of the V600E *BRAF* mutation is associated with worse prognosis, according to a study published online May 16 in *JAMA Surgery*.

Georgios Antonios Margonis, M.D., Ph.D., from the Johns Hopkins University School of Medicine in Baltimore, and colleagues conducted a cohort study to examine the prognostic association of *BRAF* [mutations](#) with survival and recurrence independently and compared with other prognostic determinants. Patients who underwent resection for CRLM with curative intent and had data on *BRAF* and *KRAS* mutational status were identified; 849 [patients](#) were included in the analyses.

The researchers found that 5.1 percent of patients had a mutated (mut) *BRAF*/wild-type (wt) *KRAS* (V600E and non-V600E) genotype, 56.5 percent had a wt*BRAF*/wt*KRAS* genotype, and 38.4 percent had a wt*BRAF*/mut*KRAS* genotype. On multivariable analysis, V600E, but not non-V600E, *BRAF* mutation was correlated with worse overall survival and disease-free survival (hazard ratios, 2.76 and 2.04, respectively). Compared with the *KRAS* mutations, the V600E *BRAF* mutation was more strongly associated with overall survival and disease-free survival (β for overall survival, 10.15 versus 2.94; β for disease-free survival, 7.14 versus 2.27).

"The presence of the V600E *BRAF* mutation was associated with worse prognosis and increased risk of recurrence," the authors write.

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Citation: V600E BRAF mutation tied to worse survival in CRC liver mets (2018, May 21)
retrieved 5 May 2024 from

<https://medicalxpress.com/news/2018-05-v600e-braf-mutation-tied-worse.html>

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