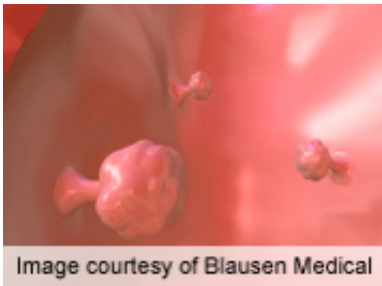


Genetic CRC risk likely mediated by differential adenoma risk

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Much of the genetic risk for colorectal cancer in the general population is mediated by differential adenoma risk, according to research published in the January issue of *Gastroenterology*.

(HealthDay)—Much of the genetic risk for colorectal cancer (CRC) in the general population is mediated by differential adenoma risk, according to research published in the January issue of *Gastroenterology*.

Luis G. Carvajal-Carmona, Ph.D., from the University of Oxford in the United Kingdom, and colleagues analyzed genotype data from 1,755 adenoma cases and 3,976 controls with no colorectal disease for 18 CRC [predisposition](#) single-nucleotide polymorphisms (SNPs).

The researchers found that eight of 18 known CRC-associated SNPs (rs10936599, rs6983267, rs10795668, rs3802842, rs4444235,

rs1957636, rs4939827, and rs961253) were over-represented in CRC-free patients with adenomas, compared with controls. There was no significant association with adenoma risk with the other CRC-associated SNPs (rs6691170, rs6687758, rs16892766, rs7136702, rs11169552, rs4779584, rs9929218, rs10411210, rs4813802, and rs4925386).

"[Genetic susceptibility](#) to CRC in the general population is likely to be mediated in part by predisposition to [adenomas](#)," the authors write. "In principle, especially if further studies can assign SNPs as adenoma-predisposing, carcinoma-predisposing, or both, such variation could be used to modulate population-based CRC-prevention measures, in a way analogous to the different methods of prophylaxis used for familial adenomatous polyposis and Lynch syndrome."

Pfizer and Merck both contributed funding to this research.

More information: [Abstract](#)
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