

Inflammatory biomarkers may impact risk of schizophrenia

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0.9 (random effects 95 percent confidence interval, 0.84 to 0.97) per twofold increment in CRP levels; the results were consistent using different methods of mendelian randomization and with a more conservative set of instruments. Per twofold increment in sIL-6R, the odds ratio was 1.06 (95 percent confidence interval, 1.01 to 1.12). Inconsistent estimates were seen for interleukin-1 receptor antagonist among instruments, with imprecise pooled estimates centered on the null.

"Our findings suggest a [protective effect](#) of CRP and a risk-increasing [effect](#) of sIL-6R (potentially mediated at least in part by CRP) on schizophrenia risk," the authors write. "It is possible that such effects are a result of increased susceptibility to early life infection."

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(HealthDay)—Specific inflammatory biomarkers may impact the risk of developing schizophrenia, with a protective effect noted for C-reactive protein (CRP) and a risk-increasing effect for soluble interleukin-6 receptor (sIL-6R), according to a study published online Nov. 1 in *JAMA Psychiatry*.

Fernando Pires Hartwig, from the University of Pelotas in Brazil, and colleagues performed a two-sample mendelian randomization study to examine whether inflammatory biomarkers impact the risk of developing schizophrenia. The authors used summary association results from large consortia of candidate gene or genome-wide association studies. Gene-inflammatory biomarker associations were estimated in pooled samples that ranged from 1,645 to more than 80,000 individuals, and gene-schizophrenia links were estimated in more than 30,000 cases and more than 45,000 ancestry-matched controls.

The researchers found that using 18 CRP genetic instruments, the pooled odds ratio estimate was

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