

Smoking ups pseudarthrosis after 2-level fusion of lumbar spine

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(HealthDay)—For patients undergoing posterolateral fusion (PLF) of the lumbar spine, smoking is associated with increased rate of pseudarthrosis among those undergoing two-level, but not single-level, PLF, according to research published in the Oct. 1 issue of *Spine*.

Mohamad Bydon, M.D., from the Johns Hopkins University School of Medicine in Baltimore, and colleagues conducted a retrospective medical record review involving all <u>adult patients</u> who underwent single- and twolevel instrumented PLF without interbody devices for degenerative spine disease. Two hundred eighty-one <u>patients</u> were included from a single institution during a 21-year period. Of the patients, 82.21 percent were <u>nonsmokers</u> and 17.9 percent were <u>smokers</u>. Patients were followed for an average of 53.5 months.



The researchers observed no significant difference in the complication rates for nonsmokers versus smokers (3.57 versus 7.69 percent; P = 0.353) among those undergoing single-level fusion. Pseudarthrosis occurred in 9.82 percent of nonsmokers and 7.69 percent of smokers (P = 0.738). Complication rates were not significantly different for nonsmokers and smokers undergoing two-level PLF (6.72 versus 4.17 percent; P = 0.638), but the smokers group had significantly higher pseudarthrosis rates (29.17 versus 10.92; P = 0.019).

"The findings in this study suggest that smoking has a significant impact on pseudarthrosis rates after two-level PLF of the lumbar spine, but not necessarily on single-level PLF," the authors write.

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