

# ICD-9 codes underestimate statin-linked rhabdomyolysis

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(HealthDay) -- Use of diagnostic codes, such as *International Classification of Diseases -- Ninth Revision (ICD-9)* codes, may result in misclassification of rare, adverse drug reactions (ADRs), including the risk of rhabdomyolysis from high-dose simvastatin, according to a research letter published in the April 18 issue of the *Journal of the American Medical Association*, a theme issue on comparative effectiveness research.

To assess the use of diagnostic codes as a method of estimating statin-related rhabdomyolysis and myopathy, James S. Floyd, M.D., of the University of Washington in Seattle, and colleagues reviewed the full [electronic medical records](#) for patients from the Group Health Cooperative who had a statin prescription within three months of an

*ICD-9* code for rhabdomyolysis or an ADR.

The researchers found that among the 292 statin users with an *ICD-9* code for rhabdomyolysis, 29 cases were identified and validated. None of the 29 cases died; 90 percent were hospitalized and 29 percent had at least a doubling of serum creatinine levels. Using the *ICD-9* code, the rhabdomyolysis incidence rate ratio (IRR) for simvastatin versus other statins was 2.61 versus 1.03. For a dose of simvastatin of 80 mg per day or greater versus 20 to 39 mg per day, the IRR was 12.2 for validated cases and 1.77 using the *ICD-9* code for rhabdomyolysis.

"These results confirm in a community setting findings from a recent clinical trial that prompted the U.S. [Food and Drug Administration](#) to issue a warning about the use of high-dose simvastatin," the authors write. "The *ICD-9* code for rhabdomyolysis was nonspecific for this ADR, and the resulting misclassification markedly attenuated the estimated relative risk for high-dose versus low-dose simvastatin."

One of the authors disclosed [financial ties](#) to the medical device/technology industries.

**More information:** [Abstract](#)  
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