

Study explores timing of muscle-related problems of statin use

November 7 2018

Statins have been linked with muscle pain and other musculoskeletal adverse events (MAEs) in some patients. A new *Pharmacology Research & Perspectives* study has examined the timing of MAEs that develop during statin therapy and determined whether concomitant drugs used concurrently with statin therapy shifts the timing of MAEs.

For the study, cases in which statins (atorvastatin, rosuvastatin, simvastatin, lovastatin, fluvastatin, pitavastatin, and pravastatin) were prescribed were extracted from the US Food and Drug Administration Adverse Event Reporting System Data Files.

The onset timing of [statin](#)-induced musculoskeletal adverse events (MAEs) differed with each statin. For example, the onset of MAEs was significantly faster with high-intensity statins including atorvastatin and rosuvastatin than with simvastatin. Concomitant use of drugs—even those that may increase the risk of MAEs—did not cause changes in the onset timing of MAEs associated with statins.

"Passive surveillance of adverse events has played a major role in securing drug safety as a system to detect unknown adverse events. Data mining using Food and Drug Administration Adverse Event Reporting System, which is a large-scale database, will be an aid to enhance [drug safety](#)," said senior author Dr. Daiuke Kobayashi, of Josai University, in Japan.

More information: *Pharmacology Research & Perspectives*, [DOI](#):

[10.1002/prp2.439](https://doi.org/10.1002/prp2.439) , bpspubs.onlinelibrary.wiley.com/journal/20521707

Provided by Wiley

Citation: Study explores timing of muscle-related problems of statin use (2018, November 7) retrieved 26 June 2024 from <https://medicalxpress.com/news/2018-11-explores-muscle-related-problems-statin.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.