

Limited dialyzability for oxycodone, noroxycodone

September 8 2016



(HealthDay)—For patients with chronic pain with end-stage renal

disease, oxycodone and noroxycodone have limited dialyzability, according to a study published online Sept. 2 in *Pain Practice*.

Boaz Gedaliahu Samolsky Dekel, M.D., Ph.D., from the University of Bologna in Italy, and colleagues examined the effect of standard hemodialysis (HD) and online hemodiafiltration (HDF) methods on the plasma concentration of oxycodone and its metabolites in 20 [chronic pain patients](#) with end-stage renal disease. Patients were stably treated with oral controlled-release oxycodone. Plasma concentrations of the studied compounds were assessed at different time points during dialysis.

The researchers observed an overall reduction trend over time in the mean [plasma](#) concentrations of oxycodone and noroxycodone in the sample, but the reduction was less enhanced for noroxycodone. A significant mean reduction was seen in oxycodone and noroxycodone arterial concentrations, which was greater with HDF (54 and 27 percent, respectively) than with HD (22 and 17 percent, respectively). A more stable and linear clearance prediction was seen with HDF (approximately 85 mL/min); for HD, clearance of oxycodone decreased and noroxycodone clearance increased with increasing arterial concentration.

"This evidence will contribute toward considerations as to the safety of the use of oxycodone in dialysis patients in the future," the authors write.

One author disclosed financial ties to Mundipharma Pharmaceuticals.

More information: [Abstract](#)
[Full Text \(subscription or payment may be required\)](#)

Copyright © 2016 [HealthDay](#). All rights reserved.

Citation: Limited dialyzability for oxycodone, noroxycodone (2016, September 8) retrieved 17 April 2024 from

<https://medicalxpress.com/news/2016-09-limited-dialyzability-oxycodone-noroxycodone.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.