

Rethinking the burden of cancer treatments' side effects

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Even mild and moderate side effects can contribute to patients with cancer discontinuing their treatment, according to an analysis [published](#) in the *Journal of Clinical Oncology*.

For many people receiving [cancer treatment](#), side effects like nausea and [hair loss](#) are not only bothersome, but can lead to them pausing or discontinuing their treatment altogether, said John Peipert, Ph.D., assistant professor of Medical Social Sciences in the Division of Outcome and Measurement Science, who was a co-author of the study.

Currently, side effects are graded according to the Common Terminology Criteria for Adverse Events (CTCAE), which grades side effects based on clinical observation, as opposed to patient-reported perspectives.

"We realized that even though they're lower grade, these adverse events may be quite bothersome and burdensome to patients and affect how patients tolerate the treatment. So, we examined that in this paper," Peipert said.

In the study, investigators analyzed data from a previous cancer trial which asked participants to rate how bothered they were by mild and moderate side effects resulting from their treatment. Each low- and moderate-grade side effect increased the likelihood of a patient reporting being bothered by side effects by 13 and 35%, respectively. Moderate side effects increased the likelihood of the patient discontinuing treatment by 59%, according to the study.

The findings provide important information about how [side effects](#) from cancer treatment affect patients, a topic that is not often studied, Peipert said.

"Some [clinical trials](#) may not collect grade one or two adverse events, and this evidence suggests that we need to be very careful before moving in that direction because we may be missing out on adverse events that tell us about whether or not the patient can tolerate the new treatment, which of course is critical for understanding treatment benefit versus

risk," Peipert said.

Moving forward, Peipert said he hopes to see investigators explore ways to record patient-reported side effect burden and incorporate that data into future trials for new cancer treatments.

"I think we need to move toward a solution about what is the best and most patient-centered way to capture tolerability of cancer treatments," said Peipert, who is also a member of the Robert H. Lurie Comprehensive Cancer Center of Northwestern University. "We need to make sure that whatever way we record it gets at what the patient feels is tolerable versus a clinician's perspective about that."

More information: Nathaniel S. O'Connell et al, Importance of Low- and Moderate-Grade Adverse Events in Patients' Treatment Experience and Treatment Discontinuation: An Analysis of the E1912 Trial, *Journal of Clinical Oncology* (2023). [DOI: 10.1200/JCO.23.00377](https://doi.org/10.1200/JCO.23.00377)

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