

Association of low-dose whole-body computed tomography with missed injury diagnoses and radiation exposure in patients with blunt multiple trauma.

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<https://psnet.ahrq.gov/issue/association-low-dose-whole-body-computed-tomography-missed-injury-diagnoses-and-radiation>

The [Joint Commission](#) recognizes potential overuse of diagnostic imaging, particularly computed tomographic (CT) scans, to be a [patient safety risk](#) due to excess radiation exposure. This study sought to determine whether low-dose whole-body CT (WBCT), which exposes the patient to less radiation, has similar accuracy to standard-dose WBCT. A cohort of over 1,000 patients with suspected blunt trauma were prospectively recruited; half received standard-dose WBCT and the other half received low-dose WBCT. The authors found that use of low-dose WBCT did not increase risk of missed injury diagnosis, while reducing median radiation exposure by almost half.