

CT scans don't interfere with cardiac rhythm devices

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(HealthDay)—Cardiac rhythm management devices should not be a cause for delaying computed tomography (CT) imaging procedures, according to research published online Feb. 26 in the *Journal of the American College of Cardiology*.

Ayman Hussein, M.D., from the University of Maryland in Baltimore, and colleagues assessed 516 CT scans that involved direct [radiation exposure](#) of cardiac rhythm management (CRM) devices (332 defibrillators and 184 pacemakers) at two large-volume centers between July 2000 and May 2010.

The researchers found that none of the CT scans was associated with the composite end point of death; bradycardia or tachycardia requiring termination of the scan or an immediate intervention; unplanned hospital admissions; reprogramming of the device; inappropriate defibrillator

shocks; or device replacement/revision due to CT imaging. There were no differences in changes in battery voltage or lead parameters between devices exposed to radiation and those not exposed. In a small group of devices (both in the CT group and in the control group), potentially significant changes in device parameters were observed. However, there was no definitive link to CT and there were no associated clinical consequences.

"The findings suggest that the presence of cardiac devices should not delay or result in cancellation of clinically indicated CT imaging procedures, and provides evidence which would be helpful when the FDA advisory is reevaluated," the authors write.

One author disclosed financial ties to the medical device industry.

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