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Sun 5/7/2023 11:58 PM

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Type of manuscript: Article

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Manuscript details:

Journal: Healthcare

Manuscript ID: healthcare-2411704

Type of manuscript: Article

Title: Economic Evaluation of Anesthesiology Led Cardiac Implantable Electronic Device Service

Authors: Ahmed Zaky *, Ryan Melvin, David Benz, James Davies, Vardas Panayotis, William Maddox, Ruchit Shah, Tom Lynch, Adam Beck, Kristine Hearld, Tom McElderry, Miriam Treggiari

Abstract: Background: Implementation of an anesthesiology led cardiac implantable electronic device (CIED) service can be viewed to have economic and efficiency challenges. This study evaluates the cost savings of an anesthesiology led CIED service. Methods: 830 patients presented in the pre-implementation period from March 1, 2016, to December 31, 2017, and 1,981 patients presented in the postimplementation period from January 1, 2018, to October 31, 2021. Interrupted time-series analysis for single-group comparisons was used to evaluate the cost savings resulting from reduction in operating room (OR) start delays for patients with CIEDs. Results: OR start time delay was reduced by 10.6 min (95%CI: -20.5 to -0.83), comparing pre- to post-implementation. For OR time of \$45/minute, we estimated the direct cost to the department to be \$1.68/minute. The intervention translated in total cost reduction during the intervention period of \$ \$250,000 (\$18,000 to \$470,000) per year for the institution and \$9,800 (\$730 to \$17,000) per year for the department. A yearly cost of employing a full-time team of CIED specialists would have been \$135,456. The service triggered electrophysiology consultation on 13 device malfunctions. Conclusions: An anesthesiology led CIED service resulted in substantial cost savings, increased OR efficiency and patient safety.

Keywords: Cardiac implantable electronic devices; cost reduction, cost analysis

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