# Effect of a multiple-site intensive care unit telemedicine program on clinical and

economic Automas. An alternative paradigm for intensi Your Privacy Medicine

#### January 2004 - Volume

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FEATURE ARTICLES

# Effect of a mu program on c paradigm for

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The addition of a supplemental, telemedicine-based, remote intensivist program was associated with improved clinical outcomes and hospital financial performance.

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## **Abstract**

## Objective

To examine whether a supplemental remote intensive care unit (ICU) care program, implemented by an integrated delivery network using a commercial telemedicine and information technology system, can improve clinical and economic performance across multiple ICUs.

## Design

Before-and-after trial to assess the effect of adding the supplemental remote ICU telemedicine program.

## **Setting**

Two adult ICUs of a large tertiary care hospital.

## **Patients**

A total of 2,140 patients

## **Interventions**

The remote care progra management of ICU pat Supporting software, in computer-based decisio economic performance before the intervention.

#### Measurements ar

Hospital mortality for Icrisk, 0.73; 95% confider 3.21–4.04] vs. 4.35 days (from increased case vo

## **Conclusions**

The addition of a supple improved clinical outco

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ntal monitoring and cility (eICU). applications, and a site. Clinical and l with performance

6 vs. 12.9%; relative 3.63 days [95% CI, 10spital revenues

ociated with provements was

similar to those reported in studies examining the impact of implementing on-site dedicated intensivist staffing models; however, factors other than the introduction of off-site intensivist staffing may have contributed to the observed results, including the introduction of computer-based tools and the increased focus on ICU performance. Although further studies are needed, the apparent success of this on-going multiple-site program, implemented with commercially available equipment, suggests that telemedicine may provide a means for hospitals to achieve quality improvements associated with intensivist care using fewer intensivists.

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