

Articles/Studies in Support of Telemonitoring.

Below is a brief summary of several articles/reports in support of telemonitoring.

Impact of Home-Based Monitoring on the Care of Patients with Congestive Heart Failure

Home Health Care Management & Practice, October 2006, Volume 18, Number 6

Authors: Myers, Grant, Lugn, Holbertand, Kvedar.

Summary: “Daily home care telemonitoring reduced the frequency of home nursing visits, provided cost savings and was associated with improved self-perceived quality of life.”

Scaling Telehealth Programs: Lessons from Early Adopters

The Commonwealth Fund pub, 1654, Vol. 1

Authors: Broderick and Lindman

Summary: This article is a summary of three telemonitoring programs: The Veterans Health Administration, Partners HealthCare, and Centura Health and Home. The conclusion of the three programs is: “Remote patient monitoring (RPM) – like home telehealth and telemonitoring – can help improve coordination, improve patients’ experience of care, and reduce hospital admissions and costs.” According to the article, in order for a telemonitoring program to be successful the home care agency must: Promote a culture of openness and preparedness; use a multidisciplinary team-based approach; establish leadership support; minimizing barriers to enrollment, like costs; and include nonstandard measures, like patient experience and staff satisfaction, in program evaluations.

Effects of Intensified care for heart failure patients by telemonitoring

European Journal of Cardiovascular Nursing (2011, Volume 10.

Authors: Zuccda, Haver, Neikrich and Rauchhaus

Summary: This document is a summary of a telemonitoring study. The article is posted at: www.mendeley.com. The study compared 415 patients with heart failure who, when discharged from the hospital, received telemonitoring services compared to 1755 patients with similar conditions who did not receive telemonitoring services. According to the study the hospital admissions and hospital days per year “were significantly lower in the intervention group (those who received telemonitoring). Hospital costs for one year were significantly lower (by 75% in the intervention group compared to the control group. Initial findings of this analysis using, routine data, suggests that telemedical care and telemonitoring in heart failure may improve morbidity and thereby quality of live while saving hospitalization costs.”

Examples of Research Outcomes – Telemedicine’s Impact of Healthcare Costs and Quality

American Telemedicine Association, April 2013

Summary - This article, which is from the trade journal of the American Telemedicine Association, is a summary of about two dozen studies of telemonitoring program, all of which showed similar, positive results – better care and lower costs to the system.

Telehome and Remote Monitoring: Ann Outcomes Overview

The Advanced Medical Technology Association

Authors: Stachura, and Khasanshina

Summary: This is a report prepared by the Medical College of Georgia for the Advanced Medical Technology Association. “Telehomecare and remote monitoring are increasingly recognized as valuable tools for enhancing care quality in chronic disease management....The results of studies to date are promising and show clear value in remote monitoring and telehomecare. But they also point to technology, infrastructure, access and reimbursement issues that must be addressed for maximal care quality improvement and cost savings.”

Telemedicine Recommendation

A Report prepared for the Maryland Quality and Cost Council

Authors: Bass, Steffen

Summary: This is a report on telemedicine (video conferencing) rather than telemonitoring. The results of this study are consistent with the results for the various studies on telemonitoring – offsite monitoring health services improve health care delivery. “Effective use of telemedicine can increase access to health care, reduce health disparities and create efficiencies in health care delivery.... Telemedicine can bridge the gaps of distance and health care delivery.”

Home telehealth improves clinical outcomes at lower cost for home healthcare

Authors: Finkelstein, Speedie

Summary: What is included here is an abstract from a study on telemedicine and home health care. The results are consistent with the studies cited above. “This study has demonstrated that virtual visits between a skilled home healthcare nurse and chronically ill patients at home can improve patient outcome at lower costs than traditional skilled face-t-face home healthcare visits.”