

Case Study

The Return on Investment (ROI)

From Connect America's Personal
Emergency Response Systems (PERS)



OUR VISION

A world where everyone is empowered to
age gracefully and well at home.

North America's Largest Provider of Digital Health and Safety

~10M
LIVES
PROTECTED



~900K

Active Subscribers
Monitored



~1,500

Employees across
North America



850K+

Signals, calls or incidents
handled monthly



35K+

Patients Monitored
with RPM Solutions



3,000+

Provider Partners

Connect**America**

MedicalAlert | Lifeline | **100.plus**

Introducing Connect America Home™:

Your digital health and safety platform



ConnectAmerica

MedicalAlert | Lifeline | 100.plus

Case Study Methodology



Objectives*

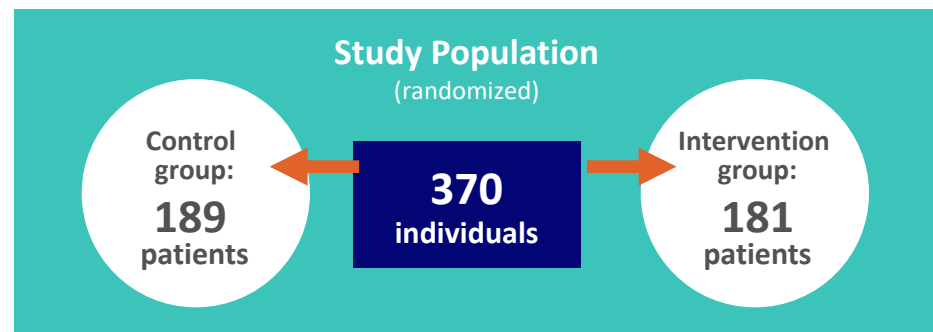
To evaluate:

- PERS subscriber reported conditions from emergency response calls
- The impact of PERS, predictive analytics and tailored interventions on healthcare utilization and costs
 - Emergency Department Visits
 - Readmission Rates



Population

- 370 adults seniors over age 65
 - Intervention group received tailored intervention
 - Control group received care as usual
- Study timeline
 - 3-month observation period
 - Followed by 6-month active intervention and engagement period



* IRB approved study

Interventions

Personal Emergency Response Systems

Continuous monitoring and access to help 24/7/365 at home or on the go



Predictive Algorithm

Identifies and predicts individuals who are at risk for hospital transport and admission

- Demographics
- Geography
- Medical conditions
- Caregiver network
- Monitoring incidents
- Behavior



Triage & Intervention

Needs assessment completed along with personalized plan

Personalized plan could include member education over a four-week period, home visits, or tele-monitoring



Results

A Significant Impact on Utilization and Costs

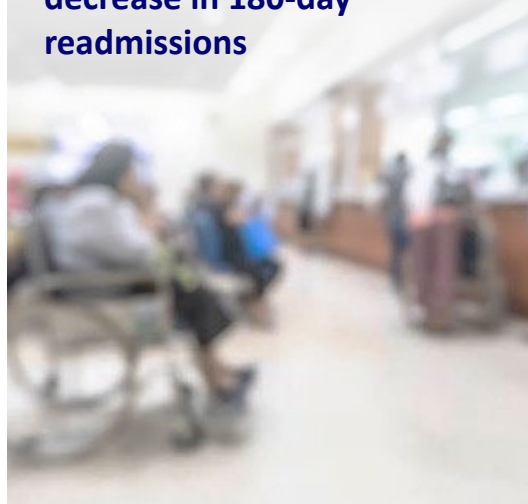
68% ↓

decrease in 90-day readmissions with corresponding triple decrease of proportion patients with any 90-day readmission**



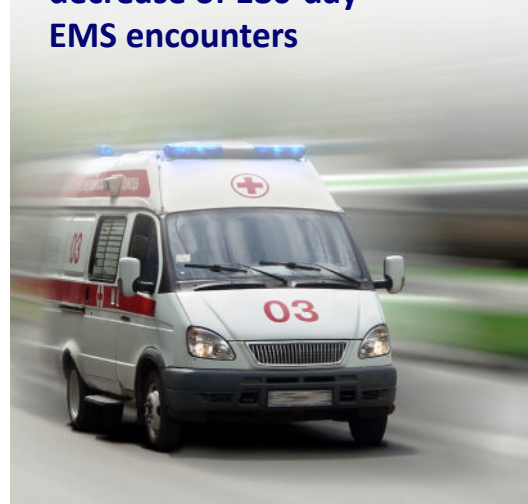
53% ↓

decrease in 180-day readmissions



49% ↓

decrease of 180-day EMS encounters



31% ↓

decrease of total hospitalization costs

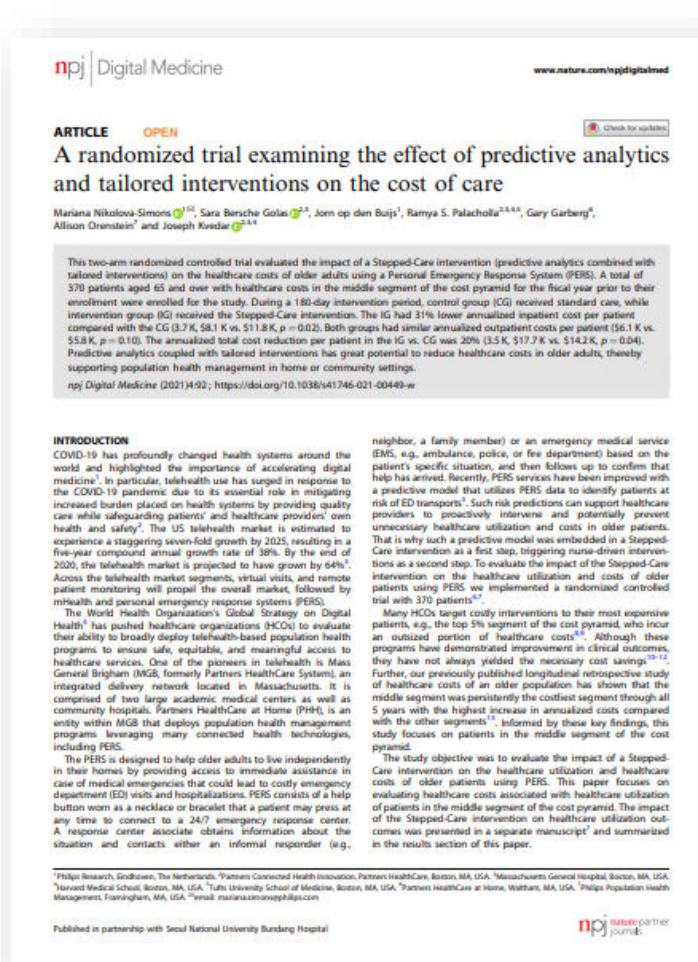


**Statistically significant outcomes ($p < 0.05$) using Intention-to-Treat approach. **10.4% control vs. 3.1% intervention group*

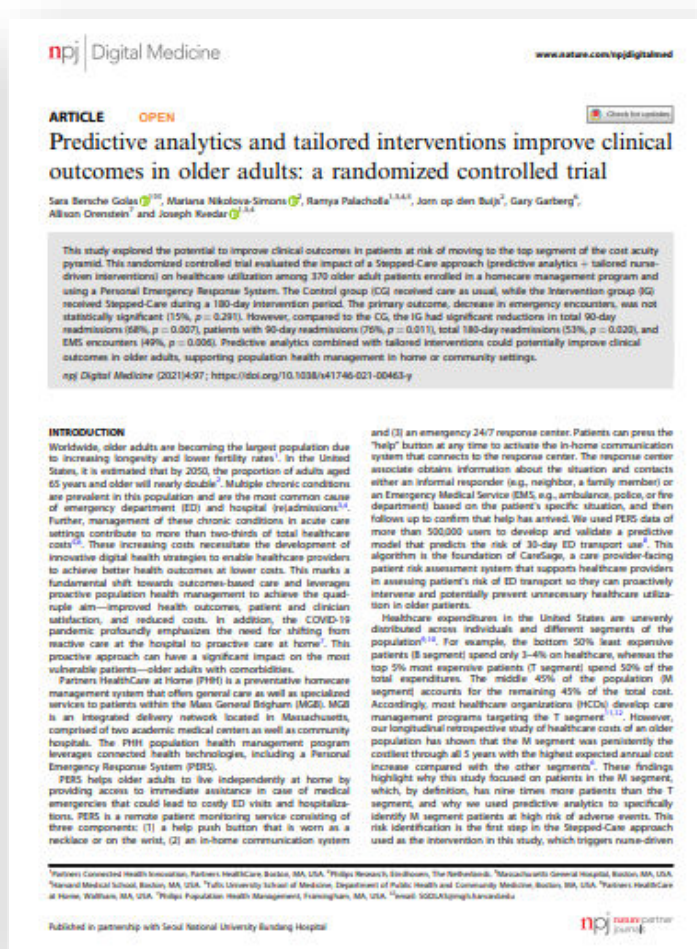
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Check Out the Research Studies Behind our ROI Data



Nikolova-Simons M, Bersche Golas S, op den Buijs J, Palacholla RS, Garberg G, Orenstein A, Kvedar J. (3rd June 2021). *A randomized trial examining the effect of predictive analytics and tailored interventions on the cost of care.* npj Digit. Med. 4, 92 (2021). <https://doi.org/10.1038/s41746-021-00449-w>



Bersche Golas S, Nikolaova-Simons M, Palacholla R, op den Buijs J, Garberg G, Orenstein A, Kvedar J. (10th June 2021) *Predictive analytics and tailored interventions improve clinical outcomes in older adults: a randomized controlled trial.* npj Digit. Med. 4, 97 (2021). <https://doi.org/10.1038/s41746-021-00463-y>

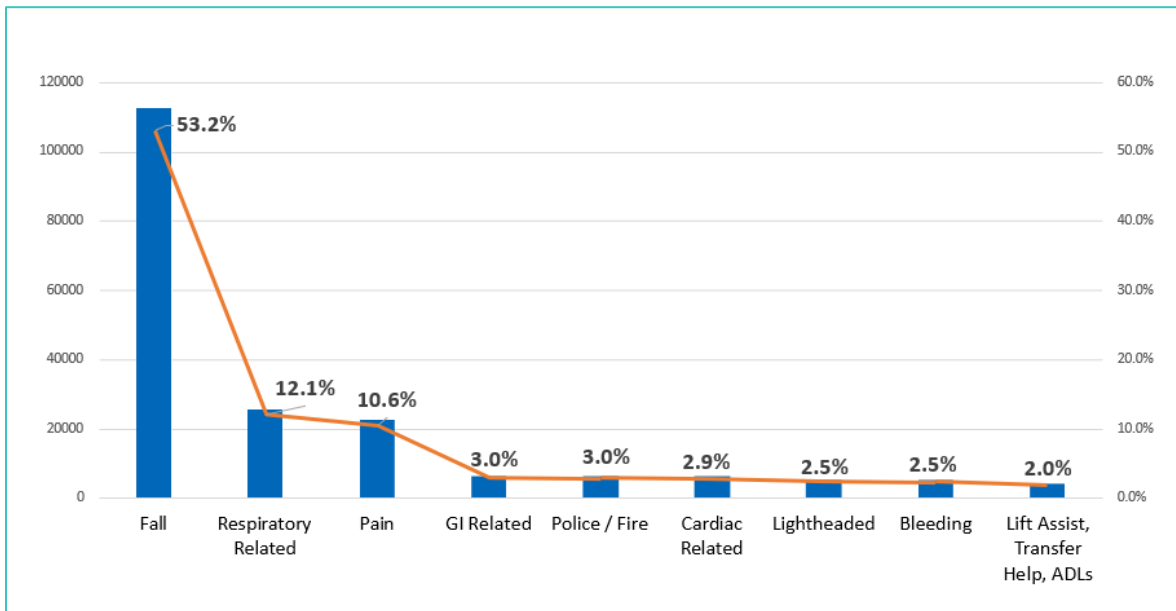
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Early Intervention Improves Efficiency and Outcomes

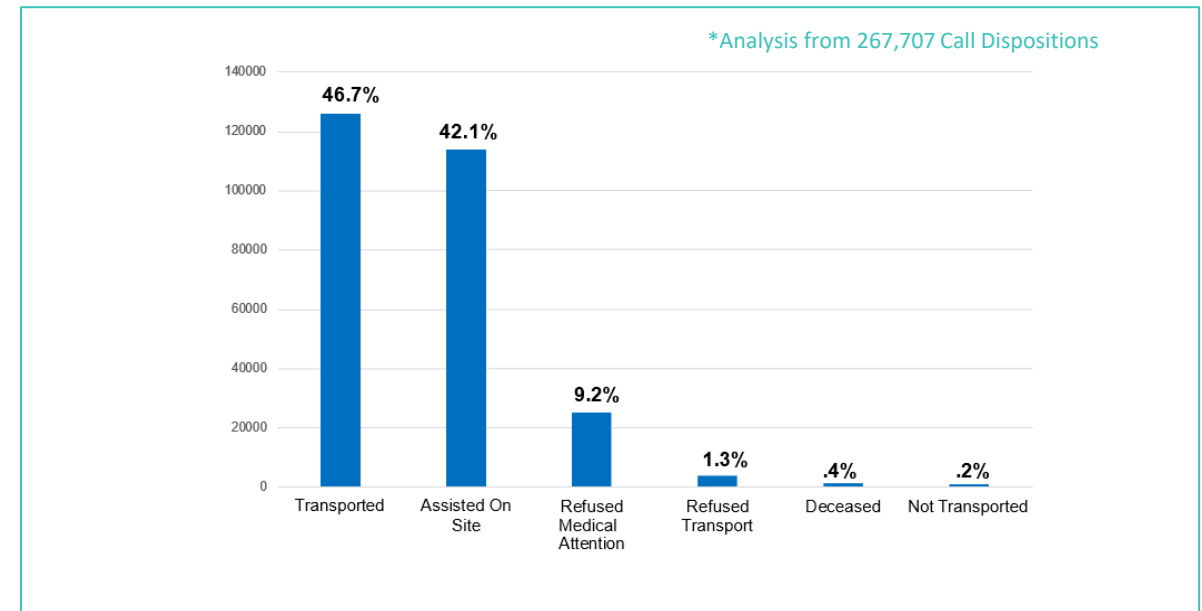
90% of alert calls do not require escalation

Top Call Reasons



- Over half of calls related to falls (**53.2%**)
- Many other reasons for calls captured in our rich database

Hospital Transports vs. Onsite Assistance



- Less than half (**46.7%**) resulted in a hospital transport

Creates opportunities for follow-up intervention

Earlier interventions improve outcomes
and reduce hospitalizations/utilization costs

Opportunities

Opportunities



- A comprehensive PERS solution can improve health outcomes and decrease utilization, including hospitalizations, readmissions, and Emergency Medical Service (EMS) encounters
- PERS was shown to lower total hospitalization costs
- Digital health, including PERS, can improve member engagement and data capture to enable better care



Thank You

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