CARECONVERGE CLINICAL CASE STUDY:
STROKE RESPONSE AT MAYO CLINIC

OVERVIEW

Everbridge and its physician partners have deployed the CareConverge application in a variety of clinical situations in order to obtain real-world outcomes that help health systems evaluate more effective ways of using mobile technology in the practice of medicine. Complex workflows, poor communications infrastructure and a lack of compliant mobile tools are hindering providers' ability to perform at their best.

Everbridge and Verizon have partnered to deliver the tools for health systems to address communications challenges, simplify workflows, save time and improve outcomes.

A CASE STUDY IN STROKE RESPONSE

Strokes are a leading cause of long term disability in the United States and are the fifth cause of death as of 2015. Neurology departments face emergency situations each day, and outcomes prove the faster a stroke is treated, the more damage can be prevented.

This case study focuses on how CareConverge provided the Mayo Clinic with a new technology to better respond to stroke victims and limit the long term damage of a stroke.

From June 29 to August 29, 2015 the CareConverge solution was deployed at a Level I Stroke center in northern Florida with the following goals; time savings, improved in-route patient evaluations and mobile use of telemedicine tools.

WORKFLOW IMPROVEMENT

An optimized workflow will encourage potential gains and faster stroke diagnosis involves engaging EMT teams and hospital neurology departments as early as possible so neurologists can deliver NIH Stroke Protocol, via video chat, straight to the patient in the ambulance. The workflows should also ensure clinicians pre-prep the emergency room, with ventilators, clinical/surgical teams and effective drug treatment.

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CARECONVERGE: STROKE RESPONSE OUTCOMES

By optimizing these workflows with the aid of CareConverge, neurologists at the Mayo Clinic were able to engage with the patient in the ambulance, ensuring evaluations could begin much faster.

The researchers at this leading Level 1 Stroke Center saw the following outcomes as a result of implementing the workflow improvements:

+ Faster identification of stroke symptoms and stroke grade

+ Reduction in door-to-needle time by 7.45 minutes

+ Reduction in evaluation time by 16 minutes, versus traditional telemedicine (robots)

+ High satisfaction in technology performance by EMT & physician teams

>   + No dropped calls

>   + Exceptional coverage

Using telemedicine in-transit was crucial to improving response and achieving positive results.

MODEST COSTS, MONSTER IMPACT

Health systems spend over $9.5 billion on telemedicine technology each year (and $5 billion more on telemedicine services), yet few have programs that deliver this level of mobile effectiveness.

The CareConverge program with iPads and Verizon network access costs less than $500/provider/year, and can improve patient outcomes, patient satisfaction, and clinician job satisfaction.

Outcomes for patients are:

+ 13.4 million neurons saved on average.

+ Average In-patient stay saves $4,500.

+ Depending on the part of the brain affected by the stroke, 9 minutes can be the difference between a patient requiring full-time, long term care post-stroke, and a patient that can live independently.

About Everbridge

Everbridge is a leading unified critical communications platform trusted by corporations and communities of all sizes that need to reach the right people for immediate action, collaboration, and decision-making. Connecting millions of people and internet-connected devices, the company provides reassurance that secure, compliant messages are delivered, locally and globally, received and responded to, no matter the recipient's location. Everbridge is based in Boston, Los Angeles, San Francisco, Beijing and London.

For a full product description, along with best practices and product details please see the Everbridge User Guide and Everbridge University.

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