

JOURNAL-BASED CME ARTICLE

Does Postacute Care Site Matter? A Longitudinal Study Assessing Functional Recovery After a Stroke

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Statement of Need

Stroke is one of the most common causes of disability, and stroke rehabilitation places an enormous burden on health care systems worldwide. In the United States, 800,000 people experience a stroke annually, and many require postacute care after an initial hospitalization. Currently, postacute care treatment patterns and settings of care for patients with stroke vary, and there are no consistently applied guidelines for determining whether a patient should receive therapy in home health care, outpatient, or institutional settings or inpatient rehabilitation facility.

Lack of clinical consensus about poststroke rehabilitation is concerning given 2 health care reform related-issues: bundling of acute and postacute care payments, and the “minimal essential coverage” that will be provided to new patients covered under the Patient Protection and Affordable Care Act (PPACA) of 2010. Changes that are mandated in PPACA could radically alter, and perhaps decrease, patient access to a number of postacute care treatment sites.

An investigation as to outcomes for postacute care after a stroke in different rehabilitation settings was identified to offer evidence of best practices and improved functional recovery.

This journal-based CME activity has been planned and developed in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the sponsorship of Professional Education Services Group (PESG).

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All other health care professionals completing continuing education credit for this activity will be issued a certificate of participation.

Educational Objectives

To support the attainment of knowledge, competence, and performance, the learner should be able to achieve the following objectives:

1. List patient care settings associated with postacute care stroke treatment patterns.
2. Assess functional status comparing different rehabilitation settings.
3. Identify activities contributing to optimal results.

Planning Committee

Leighton Chan, MD, MPH, M. Elizabeth Sandel, MD, Alan M. Jette, PhD, PT, Jed Appelman, PhD, Diane E. Brandt, PhD, PT, Pengfei Cheng, MS, Marian TeSelle, MD, Richard Delmonico, PhD, Joseph F. Terdiman, MD, PhD, Elizabeth K. Rasch, PhD, PT, Allen W. Heinemann, PhD, ABPP (RP), FACP, PESG CME Planning Committee, ACRM Editorial Office Staff.

Faculty Profiles and Disclosure Information

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No relevant financial relationships to disclose.

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Dr Jette holds stock in CRE Care, LLC, a business that disseminates the AM-PAC assessment tool.

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No relevant financial relationships to disclose.

ACRM Editorial Office Staff

No relevant financial relationships to disclose.

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This program is intended for physicians and health care professionals responsible for the comprehensive care for individuals with chronic illness and disabilities.

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In order to claim credit, participants must complete the following:

1. Read the activity
2. Complete the CME Test and Evaluation. Participants must achieve a score of 70% on the CME Test.

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This continuing education activity is active starting April 1, 2013 and will expire March 31, 2014.

Estimated time to complete this activity – 2.0 hours

Abstract

Objective: To determine the impact of postacute care site on stroke outcomes.

Design: Prospective cohort study.

Setting: Four northern California hospitals that are part of a single health maintenance organization.

Participants: Patients with stroke (N=222) enrolled between February 2008 and July 2010.

Intervention: Not applicable.

Main Outcome Measure: Baseline and 6-month assessments were performed using the Activity Measure for Post Acute Care (AM-PAC), a test of self-reported function in 3 domains: Basic Mobility, Daily Activities, and Applied Cognition.

Results: Of the 222 patients analyzed, 36% went home with no treatment, 22% received home health/outpatient care, 30% included an inpatient rehabilitation facility (IRF) in their care trajectory, and 13% included a skilled nursing facility (but not IRF) in their care trajectory. At 6 months, after controlling for important variables such as age, functional status at acute care discharge, and total hours of rehabilitation, patients who went to an IRF had functional scores that were at least 8 points higher (twice the minimally detectable change for the AM-PAC) than those who went to a skilled nursing facility in all 3 domains and in 2 of 3 functional domains compared with those who received home health/outpatient care.

Conclusions: Patients with stroke may make more functional gains if their postacute care includes an IRF. This finding may have important implications as postacute care delivery is reshaped through health care reform.

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Stroke is one of the most common causes of disability, and stroke rehabilitation places an enormous burden on health care systems worldwide.¹ In the United States, 800,000 people experience a stroke annually,² and many require postacute care after an initial hospitalization.³ Currently, postacute care treatment patterns and settings of care for patients with stroke vary, and there are no consistently applied guidelines for determining whether a patient should receive therapy in home health care (HH), outpatient (OP), or institutional settings (skilled nursing facility [SNF] or inpatient rehabilitation facility [IRF]).⁴⁻⁹

Lack of clinical consensus about poststroke rehabilitation is concerning given 2 health care reform—related issues: bundling of acute and postacute care payments, and the “minimal essential coverage” that will be provided to new patients covered under the Patient Protection and Affordable Care Act (PPACA) of 2010. Changes that are mandated in PPACA could radically alter, and perhaps decrease, patient access to a number of postacute care treatment sites.¹⁰ This may occur for 2 reasons. First, as new accountable care organizations

(ACOs) take on additional patients, they may alter traditional patient postacute care referral patterns. Second, the details of “minimal essential coverage” for patients have yet to be decided and may or may not include a number of postacute care options.

To help inform clinicians and policymakers about postacute care after a stroke, we performed a prospective cohort study that compared 6-month functional outcomes for patients with stroke whose trajectories of postacute care included an IRF, versus those whose care trajectory included an SNF, HH/OP, or no treatment. Previous research¹¹⁻¹³ has suggested that postacute care after a stroke that includes IRF has been related to improved functional recovery compared with care provided in other settings. However, these studies have been limited by the lack of functional outcome measures, long-term follow-up, or diagnostic specificity. Our hypothesis was that patients with stroke who received IRF care, which offers more rehabilitation services, would have better 6-month functional outcomes than those who received postacute care in other settings after controlling for patients’ severity of illness, baseline functional status, and other important variables.

Methods

We performed a prospective, longitudinal cohort study analyzing data from 222 patients after a stroke. These patients were enrolled from February 2008 to March 2010, and came from 4 acute care

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No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit on the authors or on any organization with which the authors are associated (Chan, Sandel, Appelman, Brandt, Cheng, TeSelle, Delmonico, Terdiman, Rasch).

A commercial party having a direct financial interest in the results of the research supporting this article has conferred or will confer a financial benefit on the author or 1 or more of the authors. Jette holds stock in CRE Care, a small business he created to disseminate the AM-PAC assessment tool.

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