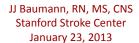


The Journey to Comprehensive Stroke Certification







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Day 1: 1992

MISSION

 To be the best comprehensive organization in the country focused on stroke diagnosis, treatment, research, and education.



 Patient care plus contributions to worldwide research efforts aimed at understanding the complex mechanisms of stroke injury, treatment and prevention.



The Beginning

FDA approved tPA for treatment of stroke.

 Brain Attack Coalition publishes recommendation for establishment of Primary Stroke Centers

• The Joint Commission's Primary Stroke Certification Program launches. Developed in collaboration with the AHA / ASA.

• Stanford certified as Primary Stroke Center.



2000

Alberts et al. Recommendations for the establishment of primary stroke centers. Brain Attack Coalition. JAMA. 2000 Jun 21;283(23):3102-9

Primary Stroke Center

The Certificate of
Distinction for Primary
Stroke Centers
recognizes centers that
make exceptional efforts
to foster better
outcomes for stroke care.





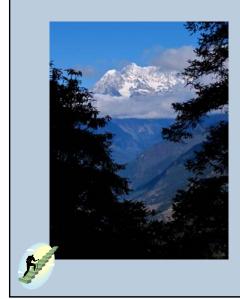
Primary Stroke Care

- Limited support
- Initially only 4 metrics required
- More focus on ischemic stroke, than hemorrhagic
- Interviews mostly nursing focused



The New Beginning • County announces it will divert stroke patients to closest stroke certified hospital. • ~ 600 hospitals are Primary Stroke Center. • Comprehensive Stroke Center infrastructure begins to build. • Estimated date for Joint Commission CSC Certification???

Climbing a Mountain



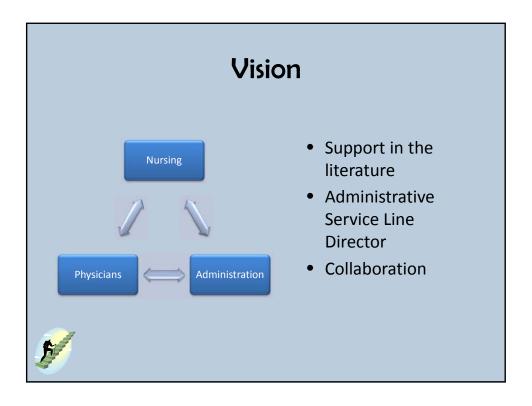
- Vision
- Resources
- Strong team
- Conditioning

Vision

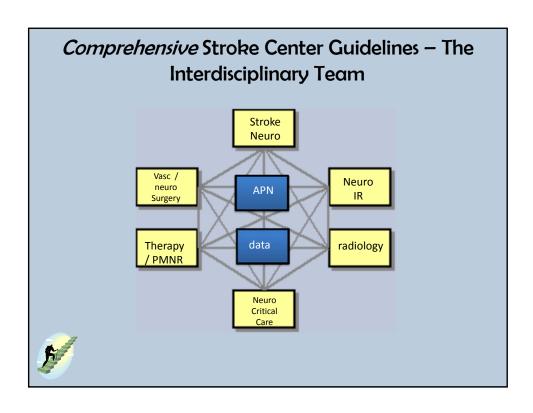
- Desire to be first CSC in Northern California
- Political incentive with two tiered county diversion

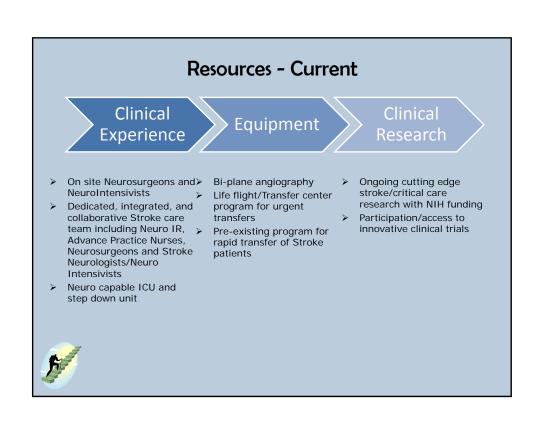






Recommendations for Comprehensive Stroke Centers A Consensus Statement From the Brain Attack Coalition Mark J. Alberts, MD; Richard E. Latchaw, MD; Warren R. Selman, MD; Timothy Shephard, RN; Mark N. Hadley, MD; Lawrence M. Brass, MD; Walter Koroshetz, MD; John R. Marler, MD; John Booss, MD; Richard D. Zorowitz, MD; Janet B. Croft, PhD; Ellen Magnis, MBA; Diane Mulligan; Andrew Jagoda, MD; Robert O'Connor, MD; C. Michael Cawley, MD; J.J. Connors, MD; Jean A. Rose-DeRenzy, CN, RN; Marian Emr; Margo Warren; Michael D. Walker, MD; for the Brain Attack Coalition (Stroke. 2005;36:1597-1618.)

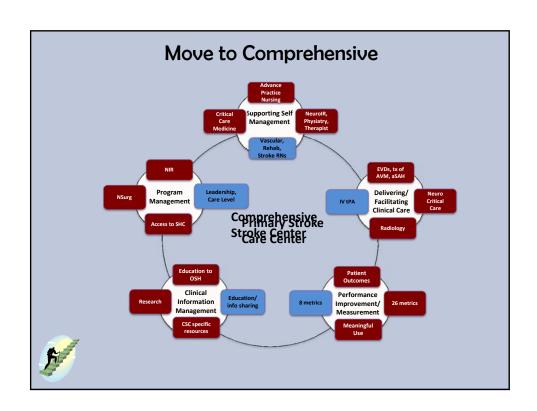




Resources - Needed

- Data Entry / analyst
- Additional advanced practice nurse (hospital to home)
- IT support
- Dedicated financial support
 - Nursing education
 - Application fees





Strong Team

- CSC Leadership Team formed
 - Hospital Administration
 - Neurology, Neurosurgery, NeuroInterventional Nursing Leaders
 - Quality and Data
 - Informatics
- Expansion of the Stroke Interdisciplinary Team





Conditioning

• Business plan developed.

• Operations/Working Group initiated.

 Stanford applies for and becomes the first accredited CSC in Northern CA???

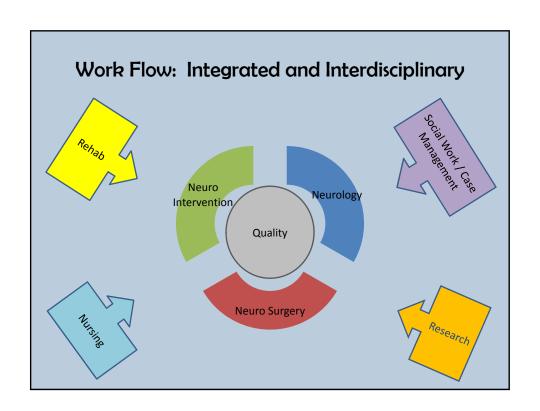
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2011

Conditioning: Defining the Work

- Work flow
 - Visio
 - Ensure ALL are included
- Project tracker
 - Project Tracker frequently reviewed
 - Helped identify weaknesses
 - · Ownership assigned
- Data
 - Obtaining
 - Monitoring





Work flow: Spreading the word

- Stroke team meeting
- Service line meeting
- Hospital quality meeting
- Nurse manager meeting
- Intranet site
- In house marketing



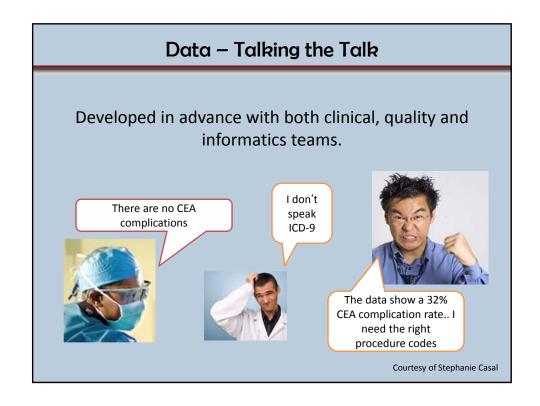
Project Tracker

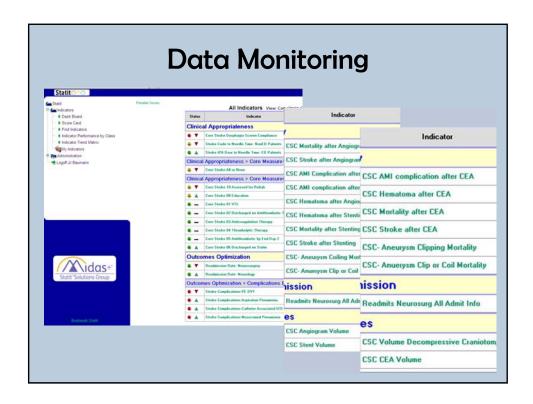
- 1. Volume of cases (20 SAH, 15aneurysm tx, 25 IVtPA)
- 2. Hospital will be able to provide advanced imaging (24/7)
- 3. Post hospital care coordination for patients
 - Multi-disciplinary team rounds
 - Case management
 - Social work
 - 7 day phone calls
- 4. Dedicated neuro-intensive care unit (ICU) beds for complex stroke patients
- 5. Peer review process
- 6. Participate in research

Data - CSC Metrics

- National Institutes of Health Stroke Scale (NIHSS) Score on Arrival for CVA
- Modified Rankin Score (mRS) at 90 Days
- Severity Measurement on Arrival for SAH and ICH
- INR Reversal, if >1.4 (for ICH pts)
- Documentation of sICH post tx
- Nimodipine Treatment Initiated
- Median Time to Recanalization Therapy
- Stroke or Death Within 7 Days or Discharge If Earlier of a Comprehensive Stroke Procedure







Comprehensive Stroke Center

Ability to deliver the wide variety of specialized care needed by patients with serious cerebrovascular disease. Integration of specialized care and technology into hospital system is likely to improve outcomes of patients with strokes and complex cerebrovascular disease and require the services of a comprehensive stroke center.



Success



Work together, celebrate together.

Helpful Hints

- Have your eligibility criteria ready
- Let your integrated, interdisciplinary team shine
- Be able to answer why / how
 - Patient
 - Quality of care
 - Hospital
 - Provide Quality of Care
 - System
 - Influence quality of care





Lessons Learned

- Defined roles/ownership
- Integrated interdisciplinary approach
- Data collection and reviewed by entire team
- Frequently monitored project tracker progress



Relax?



- It is a process, not a goal
- Requires consent attention
- Survey helped indentify opportunities for improvement

From the Start to the Future



"Drs. Albers, Marks and Steinberg knew from the very start of the Center that the most effective way to battle complex stroke cases was to create a truly coordinated, multi-disciplinary team that united experts from every related field – not just those dedicated to neurology, neurosurgery and neuroradiology, but also experts in nursing, rehabilitation, emergency medicine and pharmacy, amongst others. This approach has improved patient outcomes and pioneered significant advances in stroke diagnosis and treatment."

- Amir Dan Rubin, CEO Stanford Hospital & Clinics

