

BELLIN HEALTH OCONTO HOSPITAL

STROKE PROGRAM

Carrie Rupert, MSN, BSN, RN
Director of Clinical Services
2/4/2021

Bellin Oconto Stroke Program

Stroke Coordinator Role

- Community outreach
- Data collection
- Education
- Continuous improvement
- EMS relationship

Lead ED physician

Staff Engagement

Training with local EMS



Why?

We do it for our community! Their mothers, fathers, brothers, sisters, neighbors.....



Vision:

People in our region will be their healthiest during every stage of their lives and our communities will thrive

How?

Collect Data, Analyze & share your story

- System Priorities & Performance Objectives
- Annual review of quality measures system wide
- Education
- Focus on continuous improvement

Outcomes and Quality Improvement

<u>Age/DOB</u>	<u>LKW</u> <u>(date/time)</u>	<u>EMS</u> <u>prenotific'n</u>	<u>Code</u> <u>Stroke</u> <u>called/time</u>	<u>Exam by</u> <u>provider</u> <u>(w/in</u> <u>10min of</u> <u>arrival)</u>	<u>Door to</u> <u>Stroke</u> <u>Team</u> <u>(triage)</u> <u></15min</u>	<u>Dysphagia</u> <u>Screen</u> <u>completed</u>	<u>Door to</u> <u>CT start</u> <u>(</25min)</u>	<u>Order to</u> <u>lab results</u> <u></45min</u>	<u>Time</u> <u>TPA</u> <u>ordered</u>	<u>DTN</u>
87, 8/16/1932	2/4/20, 0700	walk in	no	no, 16min	yes, 7min	yes, incorrect	no, 36min	no, 86min	na	na
67, 7/22/1952	2/4/20, 1815	walk in	no	yes, 1min	yes, 4min	yes, incorrect	yes, 6min	yes, 28min	1922	35min
91, 7/4/1928	2/8/20, 0855	yes, 0919	yes, 0929	no doc	yes, 12min	yes, 0950	yes, 0min	yes, 35min	1015	51min
81, 2/23/39	2/9/20, 1030	no doc	no	no doc	yes, 0min	yes, incorrect	yes, 1min	yes, 33min	na	na
78, 8/30/41	2/12/20, 0930	walk in	yes, 0956	yes, 3min	yes, 0min	yes, incorrect	yes, 6min	yes, 23min	na	na
82, 12/8/37	2/12/20, 1745	no doc	yes, 1804	yes, 2min	yes, 0min	yes, 1810	yes, 8min	yes, 24min	na	na
72, 8/5/47	21/20 afternoon	walk in	no	no, 11min	yes, 6min	yes, incorrect	no, 44min	yes, 28min	na	na
91, 12/25/28	4/7/20, 2100	no doc	yes, 1009	no doc	yes, 3min	yes, incorrect	yes, 4min	yes, 30min	na	na
64, 9/14/55	4/18/20, 1400	walk in	no	yes, 8min	yes, 4min	no	no, 27min	yes, 29min	na	na
79, 6/18/40	4/28/20 hs	walk in	no	yes, 2min	yes, 5min	no	no, 36min	yes, 29min	na	na
76, 1/17/44	5/4/20, 2130	walk in	yes, 2239	yes, 4min	yes, 11min	yes, incorrect	yes, 11min	yes, 42min	na	na
69, 10/5/50	5/10/20, 0001	walk in	no	no, 14min	yes, 1min	yes, 1031	no, 30min	yes, 41min	na	na
77, 3/14/43	unclear	walk in	no	yes, 6min	yes, 9min	yes, 1106	yes, 21min	no, 51min	na	na

# stroke pts	%Code Stroke Called	%Door-Doc w/in 10min	%Door-stroke team w/in 15min	%Dysphagia screen completed	%NIHSS completed	%Door-CT w/in 25min	%Door-CT read w/in 45min	%lab order-results w/in 45min	TPA ordered	%neuro checks/vs q15min til TPA r/o completed	%DTN w/in 60min	%Door in/Door out w/in 120min
2	50%	100%	100%	50%	100%	50%	50%	100%	0	0%	na	50%
1	100%	100%	100%	100%	100%	100%	100%	0%	0	0%	na	0%
8	50%	63%	100%	38%	100%	63%	88%	100%	0	13%	na	38%

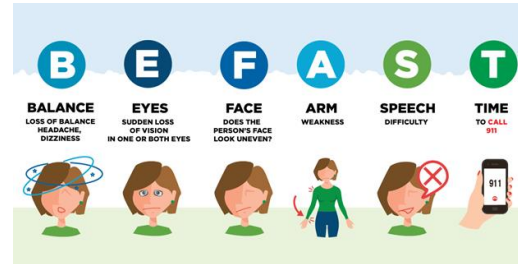
Stroke Symptom Identification & Early 911 Notification

Public Education Focus

- 2019 educating the community on stroke symptoms and early identification

2019 Community Event Participation

- Local runs
- Community Health Fairs
- Chamber Business Expo
- Collaboration with local EMS
- Silver Sneakers event – 150 people
- Bike Club event



Community Assessment



Stroke Education Post Evaluation

- 1) **What does "BEFAST" stand for:**
 - a. Brown, Eggs, From, Another, Spotted, Tortoise
 - b. Breakfast, Eggs, Farm,
 - c. Balance, Eyes, Face, Arm, Speech, Time
 - c. I don't know.
- 2) **Stroke is an Emergency:**
 - a. True
 - b. False
- 3) **You see someone who has just developed a facial droop and left arm weakness
What should you do?**
 - a. Tell them to take a nap
 - b. Call 911
 - c. Take them to the Zoo
- 4) **What can cause a stroke?**
 - a. High Blood pressure
 - b. High Cholesterol
 - c. Smoking
 - d. Obesity and physical inactivity
 - f. Atrial Fibrillation
 - e. All of the above
- 5) **The most common type of stroke is called "Ischemic stroke" where there is a
blockage of blood flow to the brain:**
 - a. True
 - b. False
- 6) **Hemorrhagic stroke can be caused by high blood pressure:**
 - a. True
 - b. False
- 7) **If overweight, losing weight can help reduce blood pressure:**
 - a. True
 - b. False
- 8) **Smoking can increase your risk for stroke:**
 - a. True
 - b. False

Patient Last Know Well (LKW)

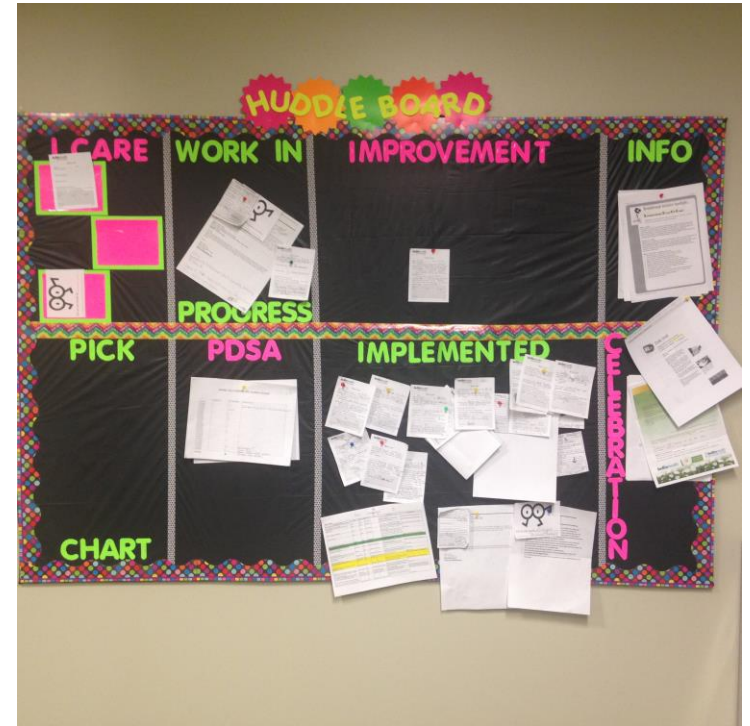
- 2018: 271 minutes
- 2019: 90 minutes
- 2020: 111 minutes



Keys to Success

Education & Continuous Improvement

- Monthly Staff meetings
- Huddle Boards – Improvement
- Self Audits
- Mock Code Strokes & Training Drills
- Utilization of written protocols/order sets
- Use of validated stroke scale (fast, LAMS, Cincinnati)
- Stroke programs should support EMS through education
- EMS should be integrated into the stroke system of care



Process Improvement

- Huddle Boards

- PDSA / A3 (PDCA)

- Plan – Do - Study - Act is a multicycle

method for initiating new process, treatments. Includes evaluating, adjusting and repeating until goal is reached



Community Relationships

EMS

- Part of our Team
- Participate in education/drills
- Focus on improvement
- Assess using a validated stroke scale (FAST)(LAMS)(MEND)(RACE) (FASTED)
- Utilize written protocols
- Stroke programs should support EMS through education
- EMS should be integrated into the stroke system of care



Public Health

- CHIP work
 - Identifying community risk
- Community education



Barriers

- Lack of dedicated coordinator for the Northern Region

Leadership Buy-in

- Goal: Stroke Ready DNV Certification
- Current comprehensive program at our acute care hospital
- Dedication to continuous improvement
- Commitment to the communities we serve

Strategic Objectives

1. The Best Care and Healthiest Communities
2. The Best People and Teams
3. The Best Experience
4. The Best Partner

Lessons Learned

1. Smaller close knit communities – when we allow people to share their stories everyone learns.
2. Standardization of Process (documentation, order sets)
3. Annual Education along with application (mock drills)
4. The value of the Stroke Coordinator role
5. Working together with local EMS



Questions

