

# Boot Camp for Primary Stroke Certification

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### Speaker Information



Sharon Eberlein RN

Neuroscience Program Director

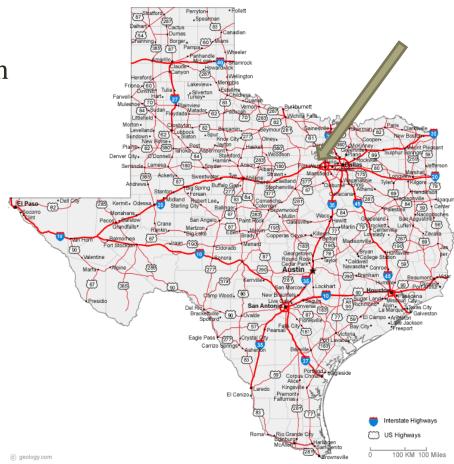
Texas Stroke Institute

Plaza Medical Center of Fort Worth

Fort Worth Texas

No disclosures

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## TJC Primary Stroke Certification Overview



- http://jointcommission.org
- Must be a JC accredited hospital
- Must have served minimum of 10 patients by time of review
- Must use a standardized process based on Current CPGs
- Minimum of 4 months of data



http://www.jcrinc.com/2014certification-manuals/ DSC Stroke Certification Manual DSC Review Process Guide

#### **PSC** Time Line



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#### Month 1

Develop Acute Stroke Process Implement Stroke Orders Satisfaction Survey Process Develop Stroke PI Process Plan Skills Competency Skills lab for staff Assign Education Courses Stroke Committee

#### **Preliminary Planning**

Hire Stroke Coordinator Select Stroke Medical Director

Collect baseline stroke data (30 patients)

Establish Stroke Interdisciplinary Committee (meet monthly) Plan Education Requirements for Staff, EMS & Community

#### Month 3

Communicate Stroke PI (Monthly) Chart Reviews Monitor Satisfaction Survey Stroke Committee

#### Month 5

Prepare PSC Notebooks
Create Power Point Presentation for Site Review
Ensure Education Compliance
Stroke Awareness Activities (Stroke Hero Awards)
Stroke Committee
Chart Reviews



1<sup>st</sup> mo



3rd mo



5th mo

Timeline for Primary Stroke Certification

Survey

**PSC** 

2nd mo



Make-up Skills lab for staff Monitor education compliance Stroke PI plan of action Prospective & Retrospective Chart Reviews Stroke Committee 4th mo



#### Month 4

Submit PSC application
Plan Mock Stroke Survey
Stroke Committee
Chart Reviews
Monitor Staff Ed. Compliance





#### Month 6

Staff Preparedness
Prepare PSC Required Forms
Prepare for PSC Review
Stroke Committee
Chart Reviews
Plan PSC Celebration





## Planning the Stroke Program

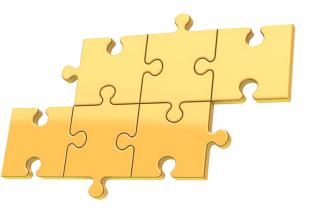
- Prepare Gap Analysis
- Identified the Stroke Coordinator and Medical Director
- Collecting baseline stroke data elements
- Established Stroke Committee
- Create Code Stroke Response Team (24/7)
- Outline and identify the annual stroke educational for staff, EMS, and community
- Choose Stroke CPGs



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### Gap Analysis

- Responsible parties
- Standards description
- Met/Not Met Criteria
- Critical need
- Comments
- Time frame



Line#	RESPONSIBL E STAFF	D PM=	MET	NOT ME	CS = CRITICAL	P= Policy / Protocol M=	Division Responsible	The Comprehensive Stroke Center (CSC) shall establish, document, implement and maintain the CSC Program and	COMMENTS / NOTES
		Program Manageme nt		Т	STANDARD andONGOI NG PROCESS REVIEW			continually improve its effectiveness in accordance with the requirements of this Certification Program	
1	Eberlein, Sharon	PM 1	SD			P=Minutes	Leadership	Senior Management is responsible and accountable for ensuring that:	
2	Eberlein, Sharon	CR.1a	MET			Р	Leadership	The CSC is in compliance with all applicable Federal and state laws regarding the health and safety of its patients.	
3	Eberlein, Sharon	CR.1b	MET			P=License	Leadership	The CSC is licensed by the appropriate state or local authority responsible for licensing of CSC.	
4	Eberlein, Sharon	CR.1c	MET		Ongoing	P=HR Files	Leadership	Criteria include aspects of individual character competence training, experience and judgment are established for selection of individuals working in CSC, directly or under contract.	All staff assigned to work with Comp. Stroke patients, must have training documented in HR files of training on care of CSC patients. Everyone must have eight hours of education.
5	Eberlein, Sharon	CR.1d	MET			P=HR Files	Leadership	Personnel working in CSC are licensed or otherwise meet all applicable Federal, State, and local laws.	HR Files, Lic, CPR, ACLS, etc
6	Eberlein, Sharon	CR.1e	MET			Р	Leadership	Responsibilities and authorities are defined and communicated within the CSC	Need a organizational CSC chart and outline of job duties
7	Eberlein, Sharon Harrison, Cheryl	CR.1f(1)	SD		CS	P=MEC Minutes, BOT, Contract	Leadership	Appointment and qualification of the medical director for the CSC	Medical Director is Dr Cravens, the CSC Program Director will be TSI/Dr Nair
8	Eberlein, Sharon	CR.1f(1)	MET			P=MEC Minutes, BOT, Contract	Leadership	The CSC medical director shall be a Neurologist, Neurosurgeon, Neurointerventional Surgeon, or other medical professional with qualifications as defined for diagnosing and treating cerebrovascular disease.	Medical Director is Dr Cravens, the CSC Program Director will be TSI/Dr Nair
9	Eberlein, Sharon	PM 2	SD		CS	P=Minutes	Leadership	Management Commitment: Senior management shall provide evidence of its commitment to the development and implementation of the CSC Program and continually improving its effectiveness by:	
10	Eberlein, Sharon	CR.1	MET			P=Scores	Leadership	Communicating to the CSC the importance of meeting customer as well as statutory and regulatory requirements	
11	Eberlein, Sharon	CR.2	MET				Leadership	Establishing the CSC Program and ensuring that objectives are established	P/P revised for CSC and need to go through the policy and forms process. Objectives are not written
12	Eberlein, Sharon	CR.3	MET				Leadership	Conducting Program reviews and ensuring the availability of resources	No written process of ensuring available resources This will include the process for bed availability, Angio Suite availability
13	Eberlein, Sharon	PM 3	SD					Program Management: The CSC shall:	
14	Eberlein, Sharon	CR.1	MET			P=Policies	Leadership	The CSC shall determine the processes needed for the CSC Program and the application throughout the CSC	Need to have the p/p written
15	Davis, Linda QM	CR.2	MET			P=Measure ment		The CSC determines the criteria and methods needed to ensure that both the operation and control of these processes are effective.	Need to have the p/p written
16	lkeler, Sharon Harrison, Cheryl		MET			P		The CSC ensures the availability of resources and information necessary to support the operation and monitoring of these processes.	Need to have the p/p written
17	Davis, Linda QM	CR.4	MET		Ongoing	P=Measure ment		The CSC shall monitor measure where applicable and analyze these processes and implement actions necessary to achieve planned results and continual improvement of these processes	04-03-13 Revised the CSC stroke dashboard. To be reviewed by Elaine
18	Davis, Linda QM	QM.1	MET		cs	P=Measure ment			need hospital organizational chart and the policy/by laws



#### Define Stroke Core Team



- Stroke Coordinator
- Stroke Medical Director (preferred neurologist/neurosurgeon)
- Job Descriptions
- Clinical Competencies
- Education Requirements are 8 hours for core team members

2014 Standard/Process for Stroke Core Team per TJC is:

- 8 hours of CE as defined in DSDF.1
- Roles and Responsibilities are documented along with stroke team duties and assignments DSPR.1-4.a







#### Code Stroke Members

- Stroke Coordinator / Designee
- Neuroscience Nurse Practitioner
- ED Physician (ED only)
- **ED Nurse**
- Lab Tech
- CT Tech
- **EKG** Tech





#### Stroke Box

- tPA
- · Dosing guide
- 60 ml syringe 1
- · Twinpak blunt needles -10
- 3ml syringe 3
- 5ml syringe 3
- 10 ml syringe -3
- Labetalol/Cardene

- 20ml syringe -3
- · Portless IV tubing
- Alcohol pads
- 50ml NS bag
- Label for tPA stating dose
- Charge sheet
- · "FR assessment of stroke book



## Code Stroke Activation Data Requirements



ERMD assessment	15 minutes
Door to CT Interpreted	45 minutes
Door to CXR completed	45 minutes
Door to EKG completed	45 minutes
Door to Lab completed	45 minutes
2014 includes troponin, blood glucose on every patient presenting with stroke symptoms	
Door to TPA	60 minutes
Must document reason why patient did not receive TPA	
2015 IV TPA is given within 60 min at least 50% of the time	
Neurosurgery Availability 2014 written plan /transfer agreements, on call schedule	120 minutes
2014 MRI/MRA/CTA interpreted within 2 hours of completion. If these tests are ordered must be completed as soon as possible For post-acute stroke patients, brain MRI and vascular imaging a MRA or CTA are available when clinically indicated to determine or guide treatment choices	2 hours

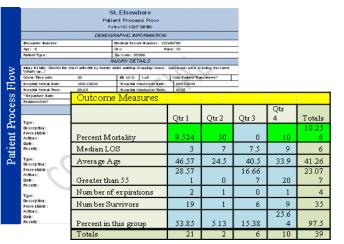


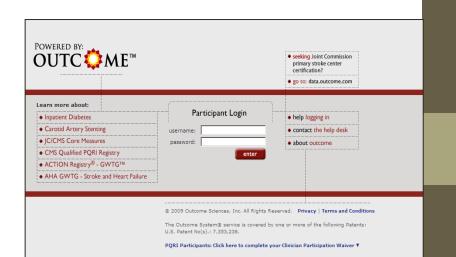


#### Stroke Database

- Discharge diagnosis for stroke
- Minimum of 10 medical records and 4 months of data
- Action Plan for each standard (PDCA)
- Date of admission and discharge with name, age, gender, ethnicity, diagnosis, other essential data
- Maintain a stroke data base

#### **NeuroBase**©







## Required and Recommended Data



- Stroke Performance Measures
  - New in 2014 Dysphagia Screening
- Acute Response Times
- Action Plans
- Perception of Care
- Length of Stay
- Order Set Usage
- Aspiration Pneumonia
- Falls
- Patient Outcomes
- Transfers to CSC

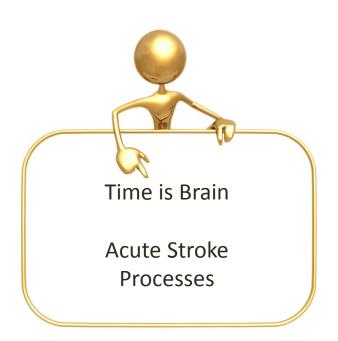




### Stroke Education Requirements



- Stroke Core Team
- ED Practitioners
- Stroke Unit Nurses
- Therapy Services
- Radiology Department
- Laboratory Department
- Ancillary Staff
- EMS Education
- Pharmacy
- Case Management
- All physicians that provide stroke care





## Clinical Practice Guidelines



- Recommendations for the Establishment of Primary Stroke Centers
- Guidelines for Early Management of Patients with Acute Ischemic Stroke
- Guidelines for Prevention of Stroke in Patients with ischemic Stroke or TIA 2006 and Update2008
- Comprehensive Overview of Nursing and Interdisciplinary Care of the Acute Ischemic Stroke Patient
- Implementation Strategies for EMS within Stroke Systems of Care
- Guidelines for the Management of Spontaneous Intracerebral Hemorrhage
- Expansion of the Time Window for Treatment of Acute Ischemic Stroke with IV tPA
- Recommendations for the Implementation of Telemedicine Within Stroke Systems of Care

Protocols for emergent care of patients with ischemic and hemorrhagic strokes are reviewed for <u>current evidence at least annually</u> using an interdisciplinary approach







### First Month Planning

- Develop acute stroke process
- Implement stroke order sets
- Develop stroke PI process with Quality Department
- Plan stroke skills fair ( stroke competencies)
- Plan stroke outreach/ community events
- Stroke Committee monthly meeting







#### Acute Stroke Process

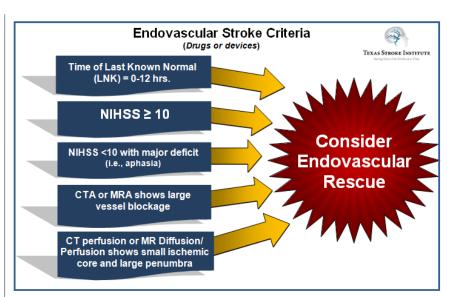
- Define acute stroke
- Process for stroke activation
- Stroke patient route
- Use of consents or not
- Mixing and administration of tPA
- Code stroke policy
- Training of nursing on tPA and post tPA patients
- Endovascular eligible patients
- Transfer to CSC

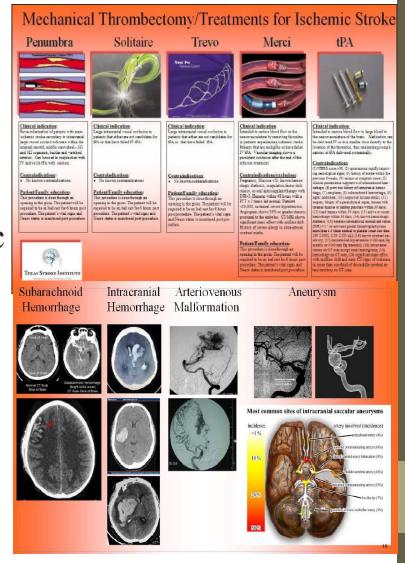




#### Acute Stroke Process

- CSC offers endovascular stroke rescue for AIS
- CSC offers emergent procedures for hemorrhagic strokes







## Comprehensive Stroke Centers



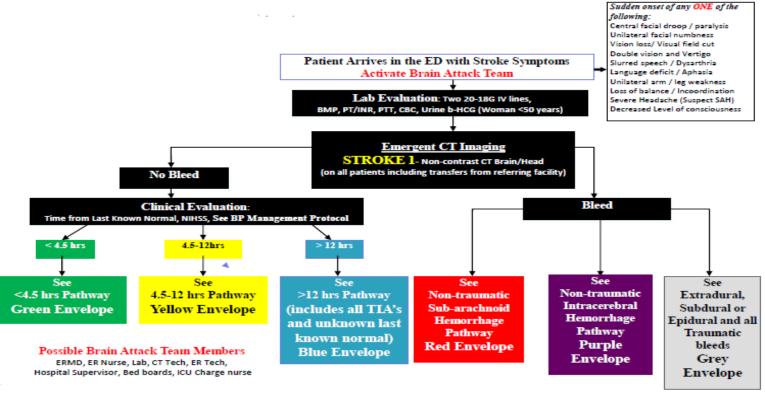
- Have 24/7 Stroke Team
- Personnel with expertise Interventional Neuroradiology
- Vascular Neurology, Neurosurgery, advanced practice nurses, rehabilitation specialists, critical care specialists
- Dedicated Neuro-Intensive Care Unit
- Advanced diagnostic imaging techniques (MRI, CTA, TEE, TCD)
- Capability to perform surgical and interventional therapies such as
  - stenting and angioplasty of intracranial vessels, carotid endarterectomy, aneurysm clipping and coiling, endovascular ablation of AVM's and intra-arterial reperfusion
- Educational and research programs





#### Stroke Order Sets

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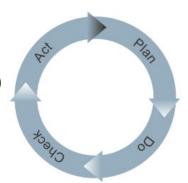
tPA Orders AIS Orders SAH Orders ICH Orders



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#### Stroke PI Process

- Use FOCUS-PDCA (Find-Organize-Clarify-Understand-Select-Plan-Do-Check-Act Cycle
- Perform both concurrent and retrospective reviews
- Management Data Collection Tool (GWTG / Neurobase)
- Hospital Stroke Registry (home grown system, Excel)
- % Review for all stroke types
- Inter
- Data submission to the state (if required)
- Data reporting structure: Stroke Committee, Neuroscience Committee, PI Steering Council, Division Meetings, Medical Executive Committee and the Board of Trustees



## Plan Skill Fairs & Community Activities



Skills Fairs

Story Boards

**Return Demonstrations** 

Mock Code Strokes

Skills Competency Check Offs

**Community Events** 

S/S Stroke

911 Activation

Risk Factors

Stroke Treatment

Communicates to the participant the result of its family risk assessment (DSSE.3)

New in 2014

Community Resources
Palliative Care
Respite Care
Vocational Rehab
Stroke Support Groups
Hospice Care

**Rehabilitation Services** 



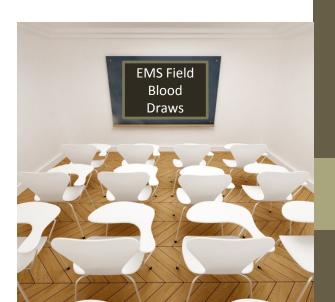




### Second Month Planning

- Make-up Skills lab for staff
- Monitor education compliance
- EMS Education
- Stroke PI plan of action
- Prospective & Retrospective Chart Reviews
- Stroke Committee monthly meeting

## D2N Times 80 40 20 July August Sept Oct







### Stroke Education Grid

Unit/Prectioners	/ Server												*//
ED Nurse	×	×	×		×		×		×	×		×	
ED Paramedic/Tech	×	×	x		x							×	
ED Physicians/PA's	×	×		x	×	×						×	
icu	×		×		×		×	×		×	×	×	
Educator												×	
COA			×		×		×			×		×	
PCU/MST	×		×		×			×			×	×	
PCU/MST TECHS	×		×		×				Ì			×	
Womens Services (all areas)												×	
SDS/OR/PAT												×	
PACU												×	
Office, Facility/Supply Suppori/Security/ Volunteers												×	
Anoflary Depts (Lab. Radiology, Respiratory, PT/OT)					×							×	
Special Procedures (ECHO, EKG)												×	
Cath Lab												×	

## ED Practitioner Education



### 2014 TJC PSC ED Practitioner Education Compliance

	Computer	Based Learning	(CBL)	2014 Stroke Compentency								
ED Practitioners (MDs Nurses, PAs)	Genentech Module 1: Stroke Basics (80%)	Genentech Module 3: Activase (100%)	NIHSS (80%)	Acute Stroke Process (100%)	Activase Contraindications (100%)	Activase Complications (100%)	Activase Patient Education (100%)	Dysphagia (80%)				
% Compliance (date)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!				

### ED Practitioner New July 2014 (DSDF1)

Knowledge of the process used to activate brain attack team 100% Education Compliance

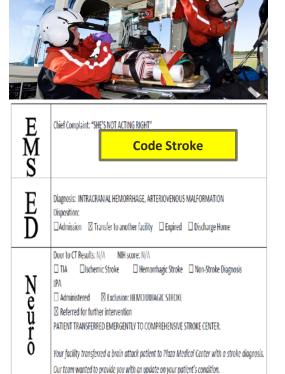
- •tPA Administration (3 h)
- Acute Stroke Protocols/Orders
- •Acute Stroke treatments < 4.5 h from LKN
- Indications for IV tPA
- Contraindications to IV tPA
- •Education to be provided to patients and families regarding the risks and benefits of IV tPA
- •Signs and symptoms of neurological deterioration post IV tPA
- Signs and symptoms of angioedema

## EMS Education & Follow Up

- Acute stroke process
- Stroke data to include D2N times
- Vital Signs/Neuro checks for D/S patients
- Transport of tPA patients to CSC







F.P. was sent to our facility on 07/24/2014 for an ICH secondary to possible AVM rupture. At





Arrival:	Stroke Type:	Code stroke:	Circle One: <3 <	4.5 <6 <12 >12
		PMH; □ None		
	BP:/	A-fih/ flutter/ Dyslipidemia	/ CAD/ Prior MI / Carotid	Stenosis/ HF/
	HR:	Smoker/ Pregnant (or up to	6 wks post- partum)/ DM/	HTN/ Previous CVA
	HT:	or TIA/ Prosthetic Heart Va	lve/ PVD/Sickle Cell/Obesit	y/CABG/Fam Hx
Zip code:	WT:	CVA/Chronic Renal Insuffier	icy (SCr>2.0)/ depression /	sleep apnea
Race: Hispanic: Y/N		Medications prior to admi	ssion:  None or unknown	TRIG:
Admit Date/time:/		Antiplatelet / Anticoagula	tion / Antihypertensive /	CHOL:
ERMD Neurologis		Diabetic Med / Cholesterol-	, ,,	
TSI:Neurosurge		ISCHEMIC DATA	nounce / min depressi	
			T/CTA or MDI/MDA\/:-	Chro INV V/N/NA
Last known to be well: / / If TIA duration of sxs: pla		M 4: Multimodal Image (0		
	ice cva occurreu	· · · —	StartTota	
Triage:w ED Phys. at bedside time:w	/in 5 min V/N/NA	M 5: Endovascular eligible		
	EMS Unknown	M 6: Acute Ischemic Pt. re		
If EMS Name provider:		If yes, Arrival time _	Start Time M	tin
Run sheet on chart: Y / N / 1		M 8: sICH post endovascu	ılar procedure (w/in 36 h)	Y/ N/ NA
Transfer from another facility: Yes		M 11: Intracranial angiople	asty &/or stenting for athe	rosclerotic disease w
If yes did pt. arrive with documentati	,	Stroke or death w/ir	n 30 days Y/ N/ NA	
Page Neurologist:Return Cal		CEA DATA		
Page NeurosurgeonReturn C	allmin:	M 10: CEA, carotid coiling/	stanting w stroke/death w	/in 30 days V / N/ NA
Page TSI: Return Call			nemang w stroke/ueatif w	Jiii 30 uays 1 / N/ NA
M22 Admitted to stroke unit: Y / N	Unit:	ANEURYSMAL SAH DATA:		
M22 Admitting Diagnosis: ICD- 9 Cod		Did patient arrive within 48		Y/N/NA
Order Set: Y / N Bridge Adm. Co		Initial GCS: Fishe		
M 1: Initial NIHSS (Ischemic or TIA	): Y / N : A/D	M 12: Initial Hunt-Hess gr	ade:/ ND / NA	
GCS:		M 13: Total Time	Hours. (From admit to sta	art of procedure
ACUTE STROKE TURN AROUND TIM		intended to obliterate rupt	ured aneurysm) Only patie	ents who arrived
Lab: Interpreted time min		within 48 hrs of onset when	e hemorrhage directly led	to admission
INR: CRT: BSG:	-	M 14: For aneurysmal SAH	arriving w/in 48 hrs of ble	eed. Coil or clip not
EKG: Interpreted time min			arrival & documented why	
CT: Interpreted time min		M 15: (SAH/ Red) w aneur		,



MB#			Date of IV tPA:	-	LKN time:		Time (	Code Stroke Called
ER Nurs	e.		EBMD:		Neurol			
		verifii tPA	Protocol (post t				necks)	was followed
			Heuruckeck ir					
		Time of IT				z 16 krz		
Time	7/5	lours Chec		Time	7/5	Hearn		Far BP > 1#0/105?
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Every 3	min z	6 hrs						
Time		leura Chec	Wer BP >	1		1		
				1				
				Note:	lf 64p > 180.	systolic or 1	05 diartal	ic pationtshould be on a
						Car	dono drip	
tPA Pre	tacal T	inlation:				Tes	н.	Comments
1. Pationt	uoight da	cumontod						
2. Tue Nur.	ro Siqnat	urar varifying t	PA dare prior to admi	inistration				
3. Initial F	III MIHS	S (prior to IV t	PA)					
4. NIHSS 3	0 minutau	part IVtPA (F	III HIHSS)					
5. NIHSS a								
6. Vital Siq								
		i/110 prior to IV:						
			matorialr qivon to po	ationt/famil	У			
			6 hrz fram tPA)					
	ar > 180/1	05 war Labotals	al andfar Cardono adr	ninistorod u	iithin 15		ı	l
minuter							⊢	
			(if applicable)				⊢	
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### Stroke Dashboards

- ED metrics
- PI metrics
- Volumes
- LOS
- tPA data
- Transfers
- Order set usage
- Other

	STORTOTAL					
DNV STROKE DASHBOARD AND PI INDICATORS	Goals	1Q	2Q	July	Aug	Sept
Total # of Strokes (lsc + Hem+TIA) (Includes Transfers)		221	61	69		
I oral # Stroke Code Activations		140	51	56		
of Acute Strokes (< 12 hrs from last known normal)		64	21.67	17		
# OT AUS (< 4.5 NFS TOM LRIN)		46	16	14		
# of AIS with NIHSS 10 or greater		19	8.67	7		
Ass treated with thrombectomy devices		2	1	2		
lotal # of IV tPA (CSC + Drip/Ship)		30	11.67	14		
Total # IV tPA (Drip/Ship)		13	6	2		
# < 3 hrs from LRN		15	3	1		
# 3-4.5 hrs from LKN		2	1	1		
SICH Complications	B%	7.60%	9.67%	0.00%		
Total # of IV tPA given at CSC		17	5.67	12		
# < 3 nrs from LRIN		13	4.33	11		
# 3-4.5 hrs from LKN		4	1.33	1		
# given without protocol violations		3	0	0		
IV TPA / % of Total Isc Strokes	1096	24%	29%	35%		
Door to Needle Mean Times (via ER)	60 min	48	49	42		
Door to needle mean times (in nouse)	60 min	108.5	na	69		
SICH Complications	D%	14%	O%	D%		
of Ischemic Strokes (Includes Transfers)		123	34.67	40		
LOS		8	6	6		
Stroke Order Sets Used (%)	85%	78%	65%	75%		
Total # of Hemorrhagic Strokes (Includes Transfers)		49	11	11		
LOS		10	11.33	8		
Stroke Order Sets Used (%) (Red + Purple)		87%	85%	64%		
Total # of SAH		11	4	1		
Endovascular colling proc date		2	0	0		
Total # of ICH (excluding subdurals)		31	22	8		
Aneurysm Clipping proc. date		0	0	0		
# Patients treated with Onyx		0	0	ő		
of Transient Ischemic Attacks (Includes Transfers)		49	46	18		
Stroke Order Sets Used (%)		4196	36%	41%		

		Isch	emic St	roke	3Q 2011 Stroke	Т	Α	1Q 2011 Stroke	
		July	Aug	Sep	totals	July	Aug	Sep	Totals
Ischemic Stroke									
Carotid interventions									
TIAs									
Stroke Orders Used	85%								
JC Primary Stroke Center Indicators	Stretch	July	Aug	Sep	3Q 2011	July	Aug	Sep	3Q 2011
Deep Vein Thrombosis (DVT) Prophylaxis	90%								
Discharge on Antithrombotic Therapy	90%								
Afib Patients Receiving Anticoagulation Therapy	90%								
Thrombolytic Therapy Administered (tPA)	90%								
Antithrombotic Therapy by End of Hospital Day Two	90%								
Discharged on Cholesterol Reducing Medication	90%								
Smoking Cessation	90%								
EKG	000/								
TAT CT TSI TSI TAT D2N D2	-	OFI's							

Date	NAME	MR#	LKN	/ Door	NIHSS @ admit	EDP	eDP @BS < 5 min	TAT in	TAT in	CT Time	TSI	TSI TAT	D2N	D2N <u>&lt;</u> 60 min	OFI's

### PI Action Plans



Insert Name of your fa	ciltu	
Stroke Center	oneg	
Quarter Discharged on Antithrom	hotics Anal	neie
		,313
RT II: Discharged on Antithrombotic		
vide current information for this measure as follows:		
Have any modifications been made to this measure	Yes	No
since the Measure Information form (MIF) was submitted?		
If this measure has been modified:		
Describe the modifications and note when the change took place		
Describe what prompted the need for the change		
Note: If the measure has undergone significant reconstruction during	the recertif	icaiton cycle
for expample, redefining of numerator and/or denominator - submit a r	evised AMF.	
Please contact your account representative.		
PART III:		
Describe how data for this measure have been used to evaluate proce-	sses and/or	patient
outcomes of care.		
Identify potential opportunities for improvement		
Describe any interventions and/or process modifications that may hav	a haan mad	a hasad
on measurement results, and how the effectiveness of these changes		e basea
on measured.	weierwill be	
measured.		
<b>-</b> 1	14 .11	
Explain any significant variations occurring in the updated data submitted		
This would include any interruption in continuous data collection or cha	_	
pattern of the data, that is, those variations that may be attributed to a	special caus	e.

- Focus Review
- Plan Do Check Act
- Graphs
- Grids

				_				e - 110									
					nsert	Name	of your Q4 2	facility 010-20		(e Pro	ogram						
Department/Committee: 5	Stroke Prog	ıram	TJC	Funct	ion: Pf	12											
Key Focus Area:(KFA): Str	oke 2: Antithr	rombotics	4Q 2	2010	Jan	Feb	Ma	r A	r 1	May	June	July	Aug	Sept	Oct	Nov	Dec
Key Focus Indicator (KFI) a TIA or an ischemic stroke a antithrombotic therapy at dis- contraindicated	Definition: re prescribe	Pts with	with														
Benchmark/Source: 85/GWT(			85.00		85.00	85.00	85.0	0 85	00 8	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00
(N) = Pts who were prescribe hospital discharge																	
(D) = All pts with ischemic st	roke																
Quarter Summary																	
			Qtr 4	1 10			Qtr 1	11		_	Qtr 2 11			Qtr 3 11 R TO DAT			Qtr 4 1
Benchmark Source: 854     Key Focus Indicator (KF unless contraindicated)		swith a TIA o	ran ischer	nic stroks	are pres	cribed and	thrombatic	therapyati	scharge						C 2011		
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90.0 ×	<b>*</b> *	*	ж	*	ж	*	* 4			X Emplo	yee/Phys	alignmeni ician Pridi		ital liussio	n:		
E 70.0										X Patien	t Loyalty						
£ 60.0	900 w											Responsi unity Res					
60.0				_							A Conin	unity Res	obices				
8 40.0 2 30.0	++	+	+				+	+			Chart rev	iew	Method	ology-Dat	a Source:		
8 30.0																	
10.0										-	Per	100					
0.0	$\perp$	$\rightarrow$		_	$\perp$	$\Box$	$\perp$	$\perp$	_								
Baseline	Apr	May Jun	Jul	Aug	Sep	Oct	Nov E	lec									
Data				Actio	n(s) to	be Ta	ken			В	y Whom		В	y When		Follow	-up
	obarte																
ollected on 29 Baseline		.															
ollected on 29 Baseline xample: October - Dece																	
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RTR 4 2010: Baseline Stri collected on 29 Baseline kxample: October - Dece RTR 1 2011:																	
ollected on 29 Baseline xample: October - Dece XTR 1 2011:																	
ollected on 29 Baseline :xample: October - Dece 2TR 1 2011: 2TR 2 2011																	





### Stroke Committee

- Schedule monthly committee meetings
   Stroke Medical Director needs to sign the minutes
- Assign a note taker
- Ensure all departments are represented including EMS, Therapy, CM/SS, Dietitian, Pharmacy, etc.
- Have set agenda including PI data, education, department reports, upcoming events
- Make assignments with an end date





### 3<sup>rd</sup> and 4<sup>th</sup> Month Planning



- Submit stroke application to TJC
- Continue stroke chart reviews and abstraction of data
- Communicate Stroke PI to stroke units and ancillary departments
- Monitor stroke patient satisfaction by surveys
- Plan mock stroke survey
- Monitor staff education compliance
- Report data through reporting structure for hospital PI stroke committee → PI/ Quality → MEC → BoD



### Application for Survey

- Submit application electronically to TJC
- Part 1 Ownership, demographics, types and volumes of stroke patients
- Part 2 Sent electronically by TJC (30 days to complete)
   PI measures, PI plan, preferred review dates, and current
   CPGs
- \* Remember to inform TJC of any changes in the program



## Communicate Data to Stroke Units and Others



Meetings Stroke PI Committee Stroke Team Executive Committee	Jan	<u>Feb</u>	March	<u>April</u>	May	June		Perfo Impro			<ul> <li>Must be continuous and ongoing throughout designation period</li> <li>Must be available for review on a rolling two year period</li> <li>Must be available for review at all times</li> </ul>			
Leadership Team												_		
Quality Department										кe	dav	5		
Medical Executive Committee					ma	un	ics	te s	in.	tal				
Board of Trustees				ŏ	m	ah	ou†	ho	91					
Emergency Department Section				th	rov	p								
Department of Medicine														
PCU/MST														
icu														
Emergency Department														



## Stroke Perception of Care



Terms

HCAPHS (Hospital Care Quality Information for the

Consumer Perspective)

Gallop (founded by George Gallop in 1935 for opinion polls)

Press- Ganey (playbook for winning on HCAHPS)

Stroke specific discharge survey
 phone calls (may use sampling to
 meet standard DSPM.5EP.1)
 survey mail outs
 surveys at discharge

Patient:	Very Satisfied	Not
MR/Acct:/		Satisfied
Discharge Date		
Follow up Phone Call Date		
Interviewed by:		
1. The nursing staff, physicians, and		
therapists were able to help you		
understand your diagnosis and plan of		
care for stroke/TIA		
2. You were advised of and given		
resource materials regarding the signs		
and symptoms of stroke, and to seek		
medical attention should you feel that		
you are having another stroke/TIA. (911		
Emergency)		
3. The staff provided sufficient		
explanation about all discharge		
medications, procedures and therapies		
regarding stroke/TIA.		
4. You received assistance and sufficient		
explanation in planning for care after		
discharge, arranging home care or		
medical equipment or rehab services for		
stroke/TIA.		
5. Do you have a follow up appointment		
with your physician?		
Do you have any future procedures or		
diagnostic tests ordered? If so with		

## 5<sup>th</sup> & 6<sup>th</sup> Month Planning



- Creating opening conference power point
- Follow up on mock survey
- Ensure education compliance
- Prepare stroke notebooks
   Education, community, PI data, stroke committee
   meetings, EMS communication & follow up
- Chart Reviews
   choose closed records for review (include tPA records)
- Create stroke pocket cards for staff
- Staff preparedness for survey readiness
- Identify staff that will speak with the surveyor

### TJC Opening Conference Power Point



- Hospital overview
- Program overview with mission, goals, objectives
- Program structure and integration with hospital structure
- Program leaders and stroke team members
- Target population and service area
- Clinical practice guidelines use in stroke management
- Program development and evaluation
- Community outreach
- EMS collaboration
- PI processes and evaluation of the program



#### Stroke Notebooks

- Stroke Survey book
- Education book
- Community Events/Lectures
   Outreach calendar
- EMS Collaboration/Follow Ups
   EMS educational offerings
- PI dashboards



	October 2014						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
			NCTRRAC	2	3	4	
5	6 Neuroscience Symposium	7 Glen Rose ED stroke education Glen Rose Senior Center stroke s/s	8	9	10 tcU shadow	11	
12	13 Columbus Day	14	15 Physician card swap 151 Glen Rose Med Ex.	16	17	18	
19	20	21 Weatherford Regional Stroke meeting	22	23	24	25	
26	27	28	29	30	31Wise Regional stroke prep for PSSC Halloween		

#### Comprehensive Stroke Certification Survey Notebook 2013

Surve	y Notebook 2013
1	Agenda
2	Session Attendees
3	Organizational Chart
4	Mission Statement, Goals and Objectives of Stroke Committee
5	Copy of Presentation
6	Stroke Program Management
7	Acute Stroke Performance Measurement
8	Performance Improvement Plan
9	Record of PI being Reported
10	Stroke Measures Dashboard
11	Stroke Code Protocols
12	Stroke Order Sets
13	Meditech/Stroke Patient Pathways
14	Stroke Patient Log
15	Stroke Patient Education
16	EMS Education
17	Stroke Staff Education
18	Community Education
19	Media
20	Physician Information
$\overline{}$	

## Survey Ready Employees and Inpatient Strokes



Stroke Survey Employees **Emergency Department** first to interview ( stroke champion) Neuro ICU first to interview ( stroke champion) 3E Neuro Tele first to interview ( stroke champion 6West first to interview (stroke champion) Neuro IR first to interview ( stroke champion)

#### Plaza Medical Center Stroke Program In-house Stroke Population

#### F= Family gave permission for Joint Commission to discuss stroke program

Neuro ICU						
Pat_Name	Date of Admission	Principal_Diag_Code	Age	Sex	Ethnicity	TPA Y/?N
•						

Neuro PCU						
Pat_Name	Date of Admission	Principal_Diag_Code	Age	Sex	Pat_Race	TPA Y/?N
						No

Med-Surg						
Pat_Name	Date of Admission	Principal_Diag_Code	Age	Sex	Ethnicity	TPA Y/?N

Discharged tPA patient						
Pat_Name	Date of Admission	Principal_Diag_Code	Age	Sex	Ethnicity	TPA Y/?N

### Stroke Pocket Cards Examples



Acute Stroke: LKN<12 Hrs.

S/S: FAST: face, arms, speech, time/terrible HA Acute Stroke Process:

- -- Activate Brain Attack team: lab, CT, MR, Radiology, ED Charge, ED MD, Stroke coord., ANP, TSI, Neuro IR (5 min seen by ER md) (15 min call returned by TSI]
- -- Lab evaluation: two 18-20g IV lines; (POC); BMP. PT/INR, PTT, CBC, urine β-HCG (<50) [TAT 45 min] -- Emergent CT (non-contrast): EMS bay straight to CT [TAT 45 minutes to interpret]
- --Other DX studies: EKG, chest x-ray [TAT 45 min] -- Determine appropriate pathway (See Below)

No Bleed	Bleed
Green: <4.5 hrs (TPA	Red: Nontraumatic
eligible)	SAH
Yellow: 4.5-12 hrs	Purple: ICH
Blue: >12	Grey: Extradural, SDH,
hrs/TIA/Unknown LKN	Epidural & traumatic

#### Treatment Options:

- -- IV TPA: 0-4.5 hrs from LKN
- -- IA TPA: 0-6 hrs from LKN
- -- Clot retrieval up to 12 hrs from LKN
- -- Criteria: NIHSS >8 or if + aphasia hemianopsia
- -- CTA/MR shows large vessel blockage
- -- Brain attack MR show small ischemic core & Large penumbra (>20% mismatch)

#### TPA GUIDELINES: D2N GOAL OF 60 MINUTES

First: Determine Eligibility: Ikn<4.5 hrs, no bleed on CT:Inclusion/exclusion criteria reviewed

- -- 2 Large bore IVs --Weight --NIH --Blood sugar
- --Thrombolytic info -- Dose calculated and given to patient & verified by 2 RNs (0.9mg/kg Max 90mg) --Foley\* (if indicated) -BP<185/110mmHg

NEED NURSE PACKET AND ORANGE TACKLE BOX Administration: 10% of dose given as bolus over 1-2 minutes; remaining 90% given as gtt over 1 hr followed by 50cc NS given at same rate as gtt (designated IV site, PE lined tubing (nitro tubing) Durina/Post: VS & NIH (full or modified) done q15 min x2hrs, q30 min x6hrs, q1hr x12 hrs --FULL 30 min post (slot 2 on flow) if there is NOT

- a 4ptimprovement notify TSI
- --Strict BP management x36 hours post infusion BP<180/105 & >100/60 if outside must document intervention (if sbp>180mmhg give labetalol x1 dose then start cardene gtt if still not WDP) --monitor for angioedema or signs of bleeding if occur: Immediately turn off tpa, Get stat ct of head w/o contrast, notify ERMD and TSI; stat labs: CBC, PT, PTT, type and screen & fibrinogen

Acute Ischemic Stoke (CVA)	Measureable Neuro Deficit				
Onset < 3 hrs. before Treatment 18 Years or older					
Exclusions Criteria for <	Exclusions Criteria for < than 3 Hours from LKN:				
BOLDED ARE NEW RECOMMENDATIONS					
Significant Head Trauma within	CT shows multilobar infarct				
last 90 days	with hypo Density > 1/3				
Prior Stroke/90 days	Suspected SAH				
Non Compressable Arterial	Significant Intracranial surgery				
Puncture within last 7 days	<3 mo.				
Intracranial Neoplasm	Intracranial AVM				
Intracranial Malformation	Intracranial Aneurysm				
HistoryICH	Intraspinal Surgery < 3 mo.				
SBP > 185 despite Treatment	DBP > 110 despite treatment				
Active Internal Bleeding	Acute Bleeding diathesis				
Platelet count <100,000/mm3	Heparin within 48 hrs.				
Abnormal/elevated aPTT	PT > 15 / PTT > 40				
On anticoagulant w/INR > 1.7	On anticoagulant PT > 15				
Glucose < 50 despite Treatment					
If on direct Thrombin Inhibitor or direct Factor Xa Inhibitor:					

Sevated ECT

Bevated factor Xa

Elevated Platelet Count

Elevated TT

tPA INCLUSION Criteria:

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SBP > 185 despite Treatment	DBP > 110 despite treatment						
Active Internal Bleeding	Acute Bleeding diathesis						
Platelet count <100,000/mm3	Heparin within 48 hrs.						
Abnormal/elevated aPTT	PT > 15 / PTT > 40						
On anticoagulant w/INR > 1.7	On anticoagulant PT > 15						
Glucose < 50 despite Treatment							
IF on direct Thrombin Inhibitor or direct Factor Xa Inhibitor:							
Elevated aPTT	Bevated INR						
Elevated Platelet Count	Bevated ECT						
Elevated TT	Elevated factor Xa						



## Congratulations! TJC Certified Primary Stroke Center

- Maintain PI data, dashboards, database
- Continue abstracts and trends
- Build stroke volume
- Monitor TJC website for updates
- Submit monthly data to TJC
- Continue to educate staff, EMS, and community

