Evidence EP14-2, Emergency Center and In-House Acute Stroke Algorithm **Beaumont Hospital, Grosse Pointe**

Emergency Center and In-House Acute Stroke Algorithm

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<u>Timeframe</u>		
5 minutes	EC RN or inpatient RN Rapid Neuro assessment for any Stroke S/S or NIHSS greater than 4 points from baseline EC unit secretary or inpatient RN calls "555" for Code Stroke Stroke Symptoms < 12 hours (last known well) Assesses ABC, VS, bedside accu-check, and monitor Has patient received any medications (sedatives, narcotics, or anticoagulants) PMH of ICH, GIB, AVM, Aneurysm, brain tumor?	→ RO operator Sends out Code Stroke page
	→	
10 minutes (Door to Dr) 15 minutes Door to Code Stroke called	EC Physician/H.O. Rapid H&P, NIHSS Lytic eligible? NIHSS Score? If greater than 10 or NIHSS 4-9 with significant deficits (i.e. aphasia) Neurologist notified after patient assessed by ECP/HO. ECP/HO asks unit secretary to escalate by calling "555" for second code stroke page to notify the neurologist with call back number.	Do not wait for BUN, Creat/GFR Results MNA (MI Neurology Associates) 1-866-210-6246 MNI (MI Neurology Institute) 1-877-844-8999
	Obtain HCT without contrast per Stroke Protocol and discuss further imaging plan with neurologist (CTP). Need 18 ga A/C IV for CTP or 20 ga if unsuccessful with 18 ga, or 18 ga. extended dwell catheter (or at least 6cc/sec for CTP); ECG	Pager-Dr. Lumley 313- 851-1110 Pager-Dr Moudgil 313- 430-0011
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25 minutes (Door to complete CT)	EC RN/Critical Care RN Verbal communication from EC or Critical Care RN to CT to notify of impending patient arrival (ext 1995) Transport patient to CT as soon as CT available with monitor If TPA candidate, patient transferred back to EC or start arrangements to transfer to CCU if in-house.	
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45 minutes (Door to results)	Radiologist will call ECP/H.O. with CT results.	ECP 313-473-1605 H.O. 313-473-6207
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8	ECP/H.O. contacts Neurologist with CT results and NIHSS \rightarrow If CT negative for bleed and within 0- 4.5 hour timeframe: ECP/H.O. discusses lytic with pt/family	If positive for Bleed, contact Neurosurgery and admit to CCU
	\downarrow Accepts Lytic \rightarrow No \rightarrow \downarrow YES	Transfer to appropriate level of care
60 minutes (Door to needle)	Obtain written consent from pt/family/next of kin if 3-4.5 hour window of LKW *Candidate for TPA-EC/CCU RN calls pharmacy with pt name, HAR, Wt to mix TPA ECP/H.O. orders Alteplase (TPA) Administer TPA. RN observes patient for S/S of bleeding Monitor vital signs and neuro checks per TPA Order Set If not tPA candidate and NIHSS > 10 or NIHSS 4-9 with significant deficits (i.e. aphasia) obtain CTP CTP positive for treatable lesion – transfer to Royal Oak CTP negative for treatable lesion – no patient transfer	*B/P < 185/110 before administering TPA
	Keep patient NPO until patient passes swallow screen If NIHSS is greater than 10 or NIHSS 4-9 with significant deficits (i.e. aphasia) ECP/H.O. obtains CTP once TPA started & contacts RO Neuro Interventional Radiologist, confirms if IR candidate based on CTP. If RO accepts transfer, ECP makes arrangement for transfer → RO	To transfer to RO, call RO-Access Center-248- 898-0880 Transfer to SJH: Call 1-888-885-STAT, send NIHSS with patient