Paul Coverdell National Acute Stroke Program (PCNASP)

effectiveness of pre-hospital,

Cross Walk Showing Relationships among Short/Intermediate/Long-Term Outcome Measures, and Data Sources for Associated Performance Measures

															DA	TA	SO	URO	CE^1																	
	Per ma	ocess rfor- ince easur		Pr	Performance Measures for Pre-Hospital Quality of Care Source: Data Elements from Emergency Services									Performance Measures for In-Hospital Quality of Care Source: Data Elements from Hospital Records													Performance Measures for Post- Hospital Quality of Care Sources: Data Elements from Hospital Records and Community Care									
Outcome and performance	Е	E	E3	Q 1	Q 2	Q 3	Q 4	Q 5	Q	Q 7	Q 8	Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9	Q 10	Q 11	Q 12	Q 13	Q 1	Q 2	Q 3	Q	Q 5	Q	Q 7	Q	9			
neasures², with Question #s	1	2		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	9	10	11	12	13	1	2	3	4	5	6	7	8	!			
Short Term Outcomes Measure	s _. (1-	2 yea	rs)									_													_											
S1. Increased public awareness of signs and symptoms of stroke and knowledge of appropriate activation of emergency medical systems	х	X																																		
S2. Maintenance of existing broad reach and/or increase in the state- wide reach of the stroke system of care		Х																																		
S3. Increased data usage and sharing between components of the stroke care system that will result from having an integrated/ linked data platform for pre-hospital data, in-hospital data, and early post-discharge data	х	x																																		
S3a. Improved reliability and validity of data as determined through annual data validation of select and highly important data elements		х																																		
S4. Increased workforce capacity and scientific knowledge for stroke surveillance within stroke systems of care		х																																		
S4a. Increased implementation of quality improvement (QI) strategies for acute stroke care across the continuum of stroke care	х																																			
S4b. Increased efficiencies and				Х	X	Х	X	X	Х	X	X	Х	X	Х	X	X	X	X	Х	X	Х	Х	Х	Х	X		X	X	X	X	X	X	2			

Paul Coverdell National Acute Stroke Program (PCNASP)

Cross Walk Showing Relationships among Short/Intermediate/Long-Term Outcome Measures, and Data Sources for Associated Performance Measures

															DA	TA	SO	URC	CE^1				_													
	Per ma	rfor- nce		Pr	Performance Measures for re-Hospital Quality of Care Source: Data Elements from Emergency Services								Performance Measures for In-Hospital Quality of Care Source: Data Elements from Hospital Records														Performance Measures for Post- Hospital Quality of Care Sources: Data Elements from Hospital Records and Community Care									
Outcome and performance measures ² , with Question #s	E 1	E 2	E3	Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9	Q 10	Q 11	Q 12	Q 13	Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9			
in-hospital, and post-hospital stroke care practices and resources																																				
S4c. Increased pre-notification of hospitals by EMS of suspected stroke patients.						Х																														
S5. Improved patient and caregiver receipt of education on ongoing post-stroke care needs		х																			Х															
Intermediate Outcome Measure	s (3+	Yea	rs)																																	
I1. Reduced time to treatment for acute stroke events			X												X								X	X												
Inproved transition of care from emergency services to hospital emergency department (ED)			Х		х	Х	х	х	х	х	х																						Х			
I3. Improved transition of care from hospital to home, which may include reintegration with primary care provider, access to community resources, enhanced patient/caregiver education, and ongoing rehabilitation and secondary prevention			х															Х	Х	X	X								х	х		X				
I4. Improved quality of EMS care for possible stroke patients		Х		Х	Х	х	Х	Х	х	х	Х																									
I5. Improved quality of acute and sub-acute ED and hospital stroke care as measured by adherence to established guidelines for care and quality metrics			х									Х	х	х	х	х	Х	х	х	х	х	Х	х	х												
I6. Improved defect free care for acute stroke patients			X									Х	Х	х	X	Х	Х	Х	Х	Х	X	х	X	X												
I7. Improved tobacco control/reduction in smoking post			X																																	

Paul Coverdell National Acute Stroke Program (PCNASP)

Cross Walk Showing Relationships among Short/Intermediate/Long-Term Outcome Measures, and Data Sources for Associated Performance Measures

																DATA SOURCE ¹																	
	Per ma	cess for- nce asur		Performance Measures for Pre-Hospital Quality of Care Source: Data Elements from Emergency Services									Performance Measures for In-Hospital Quality of Care Source: Data Elements from Hospital Records Hospital Quality of C Sources: Data Elements Hospital Records are Community Care														f Ca nts f	Care ts from and e					
Outcome and performance measures ² , with Question #s	E 1	E 2	E3	Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9	Q 10	Q 11	Q 12	Q 13	Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9
stroke																																	
I8. Improved medication adherence post-discharge			X															x															
I9. Reduced 30-day hospital readmissions and ED visits for stroke-related complications after stroke			х										х	Х																			
I10. Reduced 30-day mortality after acute stroke			Х									Х																					
Long Term Outcome Measures																																	
L1. Reduced disparities in stroke care, death, and disability should result from adherence to stroke care guidelines	Х	х	Х	X	X	Х	х	х	х	X		Х	X	X	Х	х	X	х	х	х	х	х	Х	х					х	х	х	х	

¹ Data sources may contribute to short and/or intermediate and/or long-term performance measures. Additionally, hospital inventory data elements (**attachments 4a and 4b**) are used across patient-level measures for stratification on size and capacity

²See the process and quality of care performance measure reference numbers in the table below

³Process measures are reported in awardees' annual performance report (APR), unless otherwise noted in this table

Process Performance Measures E1 Process-level performance measures, which include public awareness, partnerships, recruitment, data infrastructure, data use, quality improvement, and sustainability E2 Short-term outcome performance measures, which include public awareness, reach, data linkage, data reliability/validity, workforce capacity, stroke care, and patient education ЕЗ Intermediate outcome performance measures, which include systems of stroke care, stroke care, and health outcomes Pre-Hospital Quality of Care Performance Measures (DRAFT)- derived from pre-hospital data elements (attachment 3a) Q1 % of stroke transports with an on-scene time <15 minutes Q2 % of stroke transports with a blood glucose checked and recorded Q3 % of stroke transports where EMS called in a stroke alert pre-notification Q4 % of stroke transports that had a stroke screen completed and recorded Q5 % of stroke transports that had a documented time last known to be well Q6 % of stroke transports that had a documented time of discovery Q7 % of stroke transports that had a thrombolytic stroke check completed and documented Q8 % of stroke transports where EMS diagnosis agreed with hospital diagnosis In-Hospital Quality of Care Performance Measures- derived from in-hospital data elements (attachment 3b) Q1 VTE prophylaxis provided by end of hospital day 2 Q2 Antithrombotic medication by end of hospital day 2 Q3 Antithrombotic medication at discharge Q4 % of ischemic stroke patients that arrive by 2 hours of time last known well and are treated with IV tPA by 3 hours of last known well Q5 Dysphagia screening performed and passed prior to food, fluids, or medication by mouth Q6 Anticoagulation on discharge for patients with atrial fibrillation/flutter Q7 Statin medication provided on discharge Q8 Smoking cessation counseling and/or treatment provided Q9 Assessed for rehabilitation needs Q10 Stroke education: patients or caregivers who were given educational materials during the hospital stay addressing all of the following: activation of emergency medical system, need for follow-up after discharge, medications prescribed at discharge, risk factors for stroke, and warning signs and symptoms of stroke Q11 % ischemic stroke patients with initial NIHSS score recorded Q12 Median door-to-needle time O13 % patients with door-to-needle time <= 60 minutes Post-Hospital Quality of Care (TOC) Performance Measures (DRAFT)- derived from post-hospital data elements (attachment 3c) Q1 % of stroke patients discharged to home who have died by 30 days Q2 % of stroke patients who were seen in ED within 30 days of discharge Q3 % of stroke patients who were readmitted to the hospital within 30 days of discharge Q4 % of stroke patients reporting blood pressure (BP) >140 systolic or >90 diastolic among those checking their BP at home Q5 % of stroke patients checking the BP at home

Q6

Q7

Q8

Q9

% of stroke patients reporting 2 or more falls within 30 days of discharge

% of stroke transports where EMS diagnosis agreed with hospital diagnosis

% of stroke patients that had a follow-up appointment scheduled prior to discharge

% of stroke patients who stopped taking medications since discharge