

## STROKE FRAMEWORK

### *Introduction*

The application of a systematic approach can be useful in identifying the varied factors that influence a disease process. The following framework was created as part of the identification and development of the performance measures included in this booklet. The framework served as a guide to selecting areas of performance measurement that will enhance the quality of patient care, are evidence based, and are scientifically sound. The framework has been designed to identify delivery of care settings for stroke, key domains or aspects of care, and outcomes of care. Specifically, it presents patient factors (e.g., co-morbidities, lifestyle), health care system characteristics, treatment modalities/interventions, and measurable outcomes.

The framework is included in this guide exactly as it was used during the process of identifying the related performance measures. While it is not meant to be exhaustive, it does provide a foundation for considering performance measurement in Disease-Specific Care (DSC) programs for stroke. As such, your organization may wish to use or enhance the framework to assess for additional opportunities for performance measurement within your quality improvement initiative. In addition, factors in the framework may be helpful when considering root causes (see section *Data Analysis and Display*) as your organization undertakes analysis and interpretation of data collected for the performance measures.

## STROKE STANDARDIZED MEASURE SET FRAMEWORK

DOMAINS	KEY MEASUREMENT AREAS		
<b>Urgent Care Assessment</b>	<ul style="list-style-type: none"> <li>• Stroke team</li> <li>• Written care protocols</li> </ul>	<ul style="list-style-type: none"> <li>• Initial Physical Assessment &amp; Neurological evaluation                             <ul style="list-style-type: none"> <li>○ Ischemic vs. hemorrhagic stroke</li> <li>○ Vital signs</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Diagnostics                             <ul style="list-style-type: none"> <li>○ Blood counts, coagulation, chemistry</li> <li>○ EKG</li> <li>○ Chest X-ray</li> <li>○ Vascular imaging</li> <li>○ Brain imaging</li> </ul> </li> </ul>
<b>Acute Care Hospitalization/Treatment</b>	<ul style="list-style-type: none"> <li>• Airway/ventilatory support</li> <li>• Anticoagulation</li> <li>• Rehab referral</li> </ul>	<ul style="list-style-type: none"> <li>• Anti-platelet therapy</li> <li>• Anti-thrombotic therapy</li> </ul>	<ul style="list-style-type: none"> <li>• Avoidance of nifedipine</li> <li>• DVT prophylaxis</li> </ul>
<b>Risk Factor Modification</b>	<ul style="list-style-type: none"> <li>• Smoking</li> <li>• Obesity</li> <li>• Alcohol intake</li> </ul>	<ul style="list-style-type: none"> <li>• Heart disease</li> <li>• Sedentary lifestyle/physical activity</li> </ul>	<ul style="list-style-type: none"> <li>• Diet</li> </ul>
<b>Secondary Prevention</b>	<ul style="list-style-type: none"> <li>• Hypertension</li> <li>• Medications</li> <li>• Carotid artery disease</li> </ul>	<ul style="list-style-type: none"> <li>• Smoking cessation</li> <li>• Diabetes</li> </ul>	<ul style="list-style-type: none"> <li>• High cholesterol</li> <li>• History of TIA</li> </ul>
<b>Education</b>	<ul style="list-style-type: none"> <li>• Causes of stroke</li> <li>• Adherence to medication use</li> <li>• Resources for social support or services</li> </ul>	<ul style="list-style-type: none"> <li>• Risk factor modification/ healthy lifestyle</li> </ul>	<ul style="list-style-type: none"> <li>• Treatment of stroke</li> <li>• Discharge preparation</li> </ul>
<b>Rehabilitation</b>	<ul style="list-style-type: none"> <li>• Instrumental activities of daily living</li> <li>• Multidisciplinary evaluations</li> <li>• Speech therapy                             <ul style="list-style-type: none"> <li>○ Dysphagia</li> <li>○ Speech and oral expression</li> <li>○ Aphasia</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Activities of daily living</li> <li>• PT</li> <li>• Vocational Therapy</li> <li>• Sensory disturbances</li> </ul>	<ul style="list-style-type: none"> <li>• Bowel/bladder control</li> <li>• OT</li> <li>• Psychological evaluation</li> </ul>