

EMS PRE-HOSPITAL CHECKLIST

Goal: On-scene time ≤ 15 minutes

- Perform Cincinnati Pre-hospital Stroke Screen
- Identify Last Known Well
- Perform Large Vessel Screening (RACE)
- Perform Blood Glucose
- Start IV
- 12-lead ECG
- Ask if on blood thinners and notify hospital

*Note: Many of these tasks can be performed while transporting

Notifying Hospital of the following

- Stroke Alert
- Large Vessel Screening Score (RACE 0-9)
- Blood Glucose
- Vital Signs
- Last Known Well
- 12-lead ECG findings
- If know, anticoagulant use

EMS RACE Stroke Scale - Rapid Arterial oCclusion Evaluation Scale, used to predict large cerebral arterial occlusions.* RACE Score ITEM **INSTRUCTION FACIAL PALSY** Ask the patient to show their teeth **ABSENT** (symmetrical movement) MILD (slightly asymmetrical) 1 MODERATE TO SEVERE (completely asymmetrical) 2 0 NORMAL TO MILD (limb upheld more than 10 ARM MOTOR Extending the arm of the patient 90 1 **FUNCTION** degrees (if sitting) of 45 degrees (if 2 **MODERATE** (limb upheld less than 10 seconds) supine) **SEVERE** (patient unable to raise arm against gravity) Extending the leg of the patient 30 **LEG MOTOR** NORMAL TO MILD (limb upheld more than 5 0 **FUNCTION** degrees (if supine) 1 **MODERATE** (limb upheld less than 5 seconds) **SEVERE** (patient unable to raise leg against gravity) **HEAD AND** Observe eyes and cephalic deviation to **ABSENT** (eye movements to both sides were possible 0 GAZE one side and no cephalic deviation was observed) **DEVIATION** PRESENT (eyes and cephalic deviation to one side 1 was observed) **APHASIA NORMAL** (performs both tasks correctly) 0 Ask the patient - "close your eyes" If right **MODERATE** (performs one task correctly) 1 two verbal orders: - "make a fist" hemiparesis **SEVERE** (performs neither task) 2 - "Who's arm is this?" while **NORMAL** (no asomatognosia nor anosognosia) **AGNOSIA** 0 showing him/her If left MODERATE (asomatognosia or anosognosia) 1 the paretic arm hemiparesis **SEVERE** (both asomatognosia and anosognosia) 2 Askina: (asomatognosia) - "Can you move your arm?" (anosognosia) * Chart adapted from Perez de la Ossa N, Carrera D, Gorchs M, et al. Design and RACE SCALE TOTAL: validation of a prehospital stroke scale to predict large arterial occlusion: the rapid Any score above a "0" is a "Stroke Alert" arterial occlusion evaluation scale. Signs and Symptoms of Large Vessel Occlusion RACE >4 Stroke; a journal of cerebral circulation. Jan 2014;45(1):87-91.

ADDITIONAL INFORMATION

PRE-HOSPITAL MANAGEMENT OF AN ACUTE STROKE¹

- · Assess the airway, breathing and circulatory status
- ·Check blood glucose
- ·Obtain full set of vital signs
- · Review patient medications
- · Perform 12 lead ECG
- · Establish IV access

ACUTE ISCHEMIC STROKE - IV t-PA CONTRAINDICATIONS²

- · Active internal bleeding
- · Recent intracranial or intraspinal surgery or serious head trauma
- · Intracranial conditions that may increase the risk of bleeding
- · Bleeding diathesis
- · Current severe uncontrolled hypertension
- · Current intracranial hemorrhage
- · Subarachnoid hemorrhage

PATIENT REPORT TO ED - KEY ITEMS³

- · Patients' age, sex, weight
- · Mechanism of injury or medical problem
- ·Chief complaint with brief history of present illness
- Vital signs
- · Level of consciousness
- · General appearance, distress, cardiac rhythm
- ·Interventions by EMS (IV, medication administration)
- ETA (the more critical the patient, the earlier you need to notify the receiving facility)
- ** MECHANICAL THROMBECTOMY IS AN OPTION FOR ALL STROKE PATIENTS UNTIL PROVEN OTHERWISE** Always follow your state, local or EMS agency/medical directors' protocols.

LEARN MORE

To learn more and obtain free EMS resources from the American Heart Association - visit

www.heart.org/nebraskamissionlifeline



¹ Maggiore, W.A. (2012). 'Time is Brain' in Prehospital Stroke Treatment. Journal of Emergency Medical Services, 1-9.

 $^{^2\,}Genentech\,USA, Inc.\,Highlights\,of\,prescribing\,information,\,Activase\,(alteplase\,for\,injection,\,for\,intravenous\,use),$

http://www.gene.com/download/pdf/activase_prescribing.pdf. Accessed on February 15, 2016.

Campbell S, Robinson MR. Paramedic Lab Manual. Upper Saddle River, N.J.: Pearson Prentice Hall; 2005.