

Virginia Stroke Care Quality Improvement Group

January 2024

Mary Washington Healthcare, Fredericksburg, VA

Patrick Wiggins, Chronic Disease Supervisor, VDH

Kathryn Funk, Stroke Registry Coordinator, VDH

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Agenda

8:30-8:45am Welcome and Minutes Approval

8:45-9:25am Brief Overview of the EMS Stroke Survey

Brief Overview of Stroke Registry and EMS Data Points

Advisory Group Discussion/Activity

Pre-hospital Metrics Reports

Combining Hospital and Pre-Hospital metrics/information

9:25am Public Comment

9:40am Adjourn

Minutes Approval

Background/Updates

Code of Virginia § 32.1-111.15:1

- Effective January 1, 2019, the Code of Virginia § 32.1-111.15:1 was amended to require the Virginia Department of Health (VDH) to implement systems for stroke data collection and information sharing, apply evidence-based guidelines for community-based follow-up care, and implement a continuous process for stroke care quality improvement initiatives in collaboration with hospitals and emergency medical services (EMS) agencies. VDH convened a Virginia Stroke Care Quality Improvement (VSCQI) Advisory Group to fulfill these requirements.

State Stroke Triage Plan

- Workgroup has convened to update the 2018 State Stroke Triage Plan
- Collecting Stroke Triage Plans and Transfer Forms from the regional councils to compare to create a generic template for the state

2024 EMS Stroke Inventory Survey

Key Results

Full report will be released soon.

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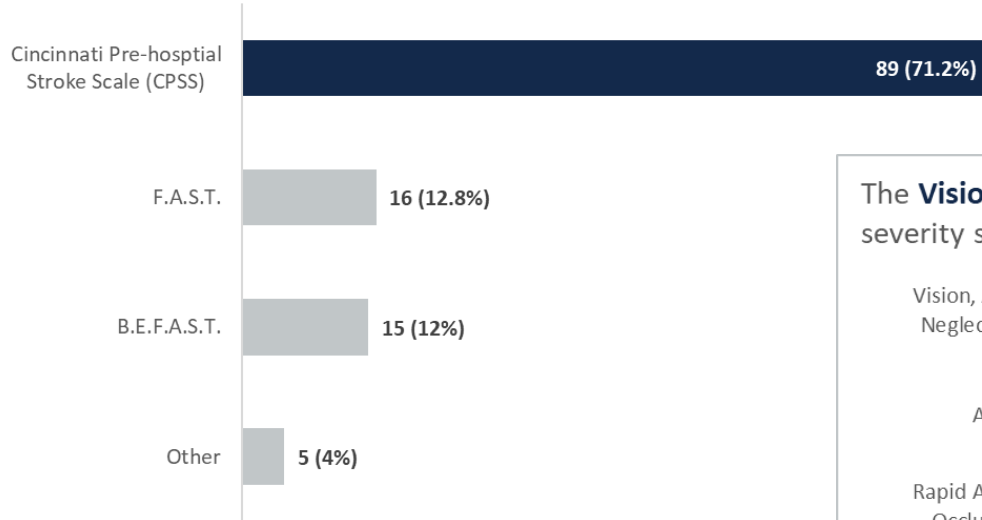
Stroke@vdh.virginia.gov

Survey Response

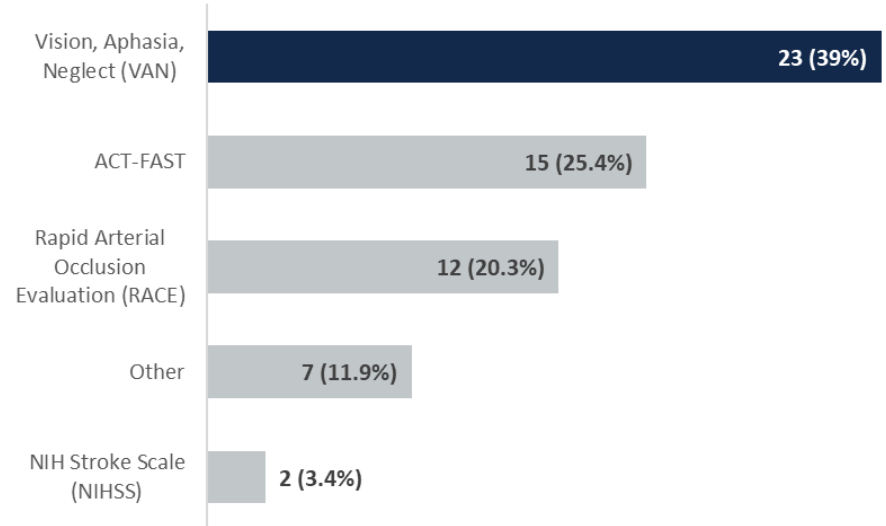
- Total of 130 complete responses – response rate of 23.7%
- All regional councils were represented – Southwest Virginia and Old Dominion had the highest number of responses

EMS Regional Council	Number of Responses (%)
Blue Ridge	4 (3.1%)
Central Shenandoah	12 (9.2%)
Lord Fairfax	5 (3.8%)
Northern Virginia	6 (4.6%)
Old Dominion	23 (17.7%)
Peninsulas	5 (3.8%)
Rappahannock	6 (4.6%)
Southwest Virginia	31 (23.8%)
Thomas Jefferson	4 (3.1%)
Tidewater	14 (10.8%)
Western Virginia	20 (15.4%)

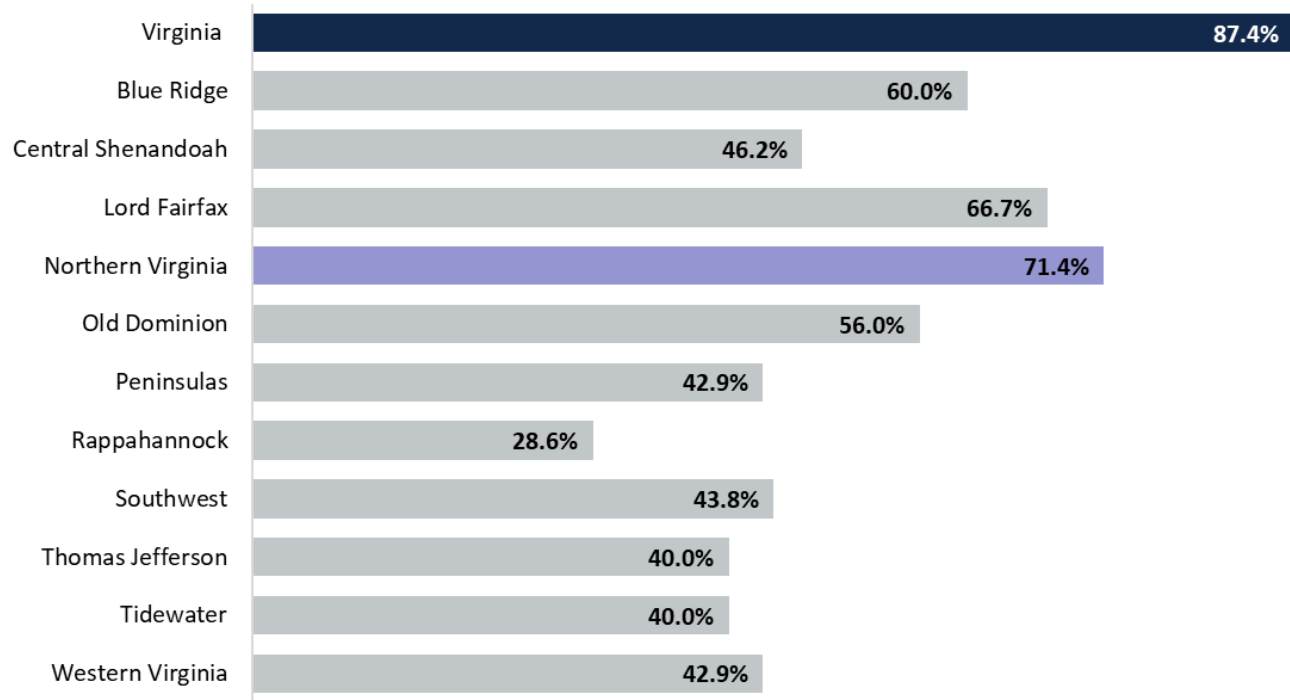
The **Cincinnati Pre-hospital Stroke Scale** is the most used stroke recognition scale.



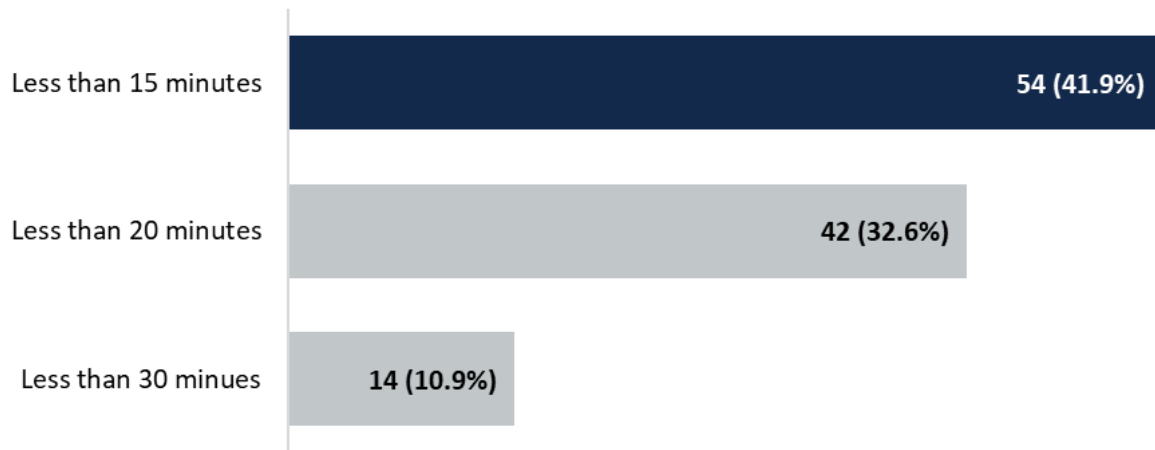
The **Vision, Aphasia, Neglect (VAN)** is the most used stroke severity scale.



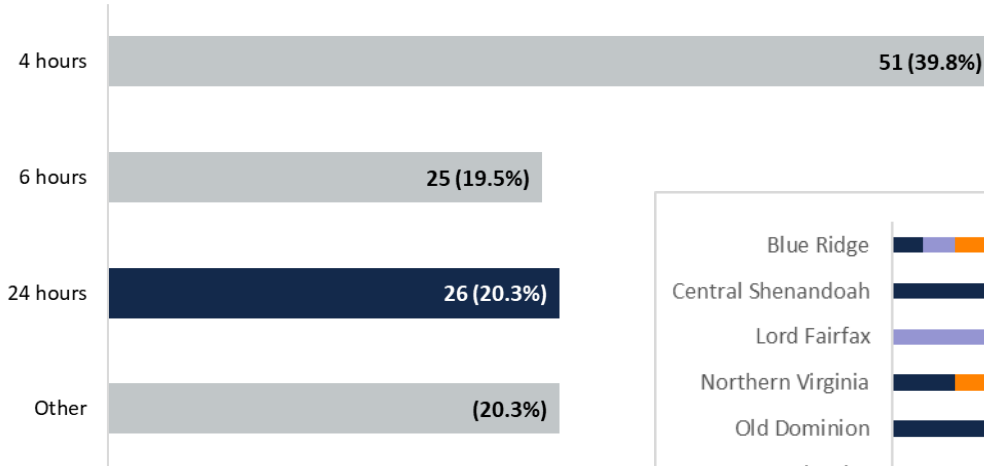
Northern Virginia has the highest blood glucose completion rate of all regions when compared to the **statewide** completion rate.



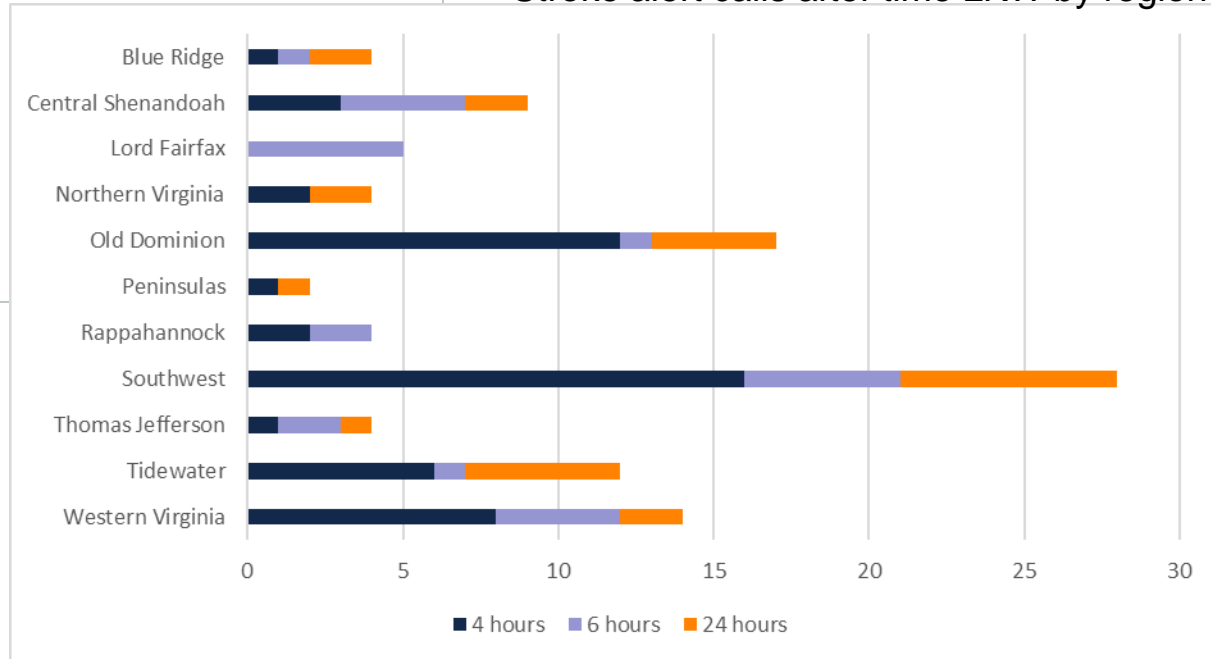
Only 41.9% of agencies meet the criterion of an on-scene time of **less than 15 minutes** for suspected stroke patients.



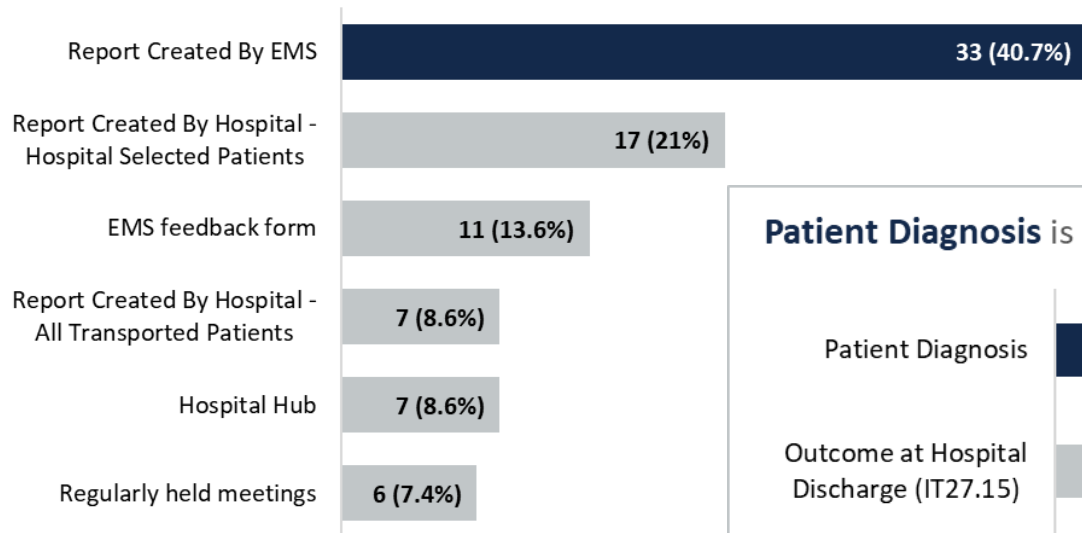
Only 20% of agencies call a stroke alert **up to 24 hours** since time LKW.



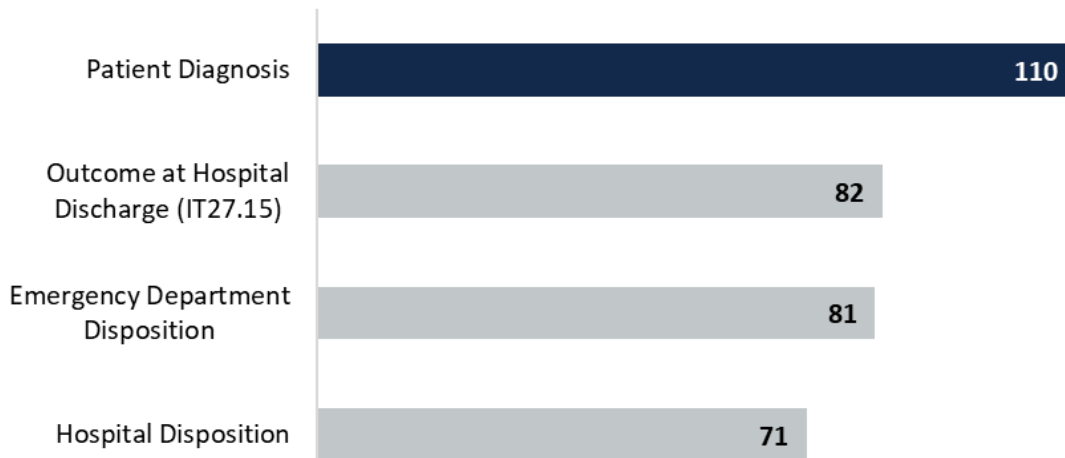
Stroke alert calls after time LKW by region



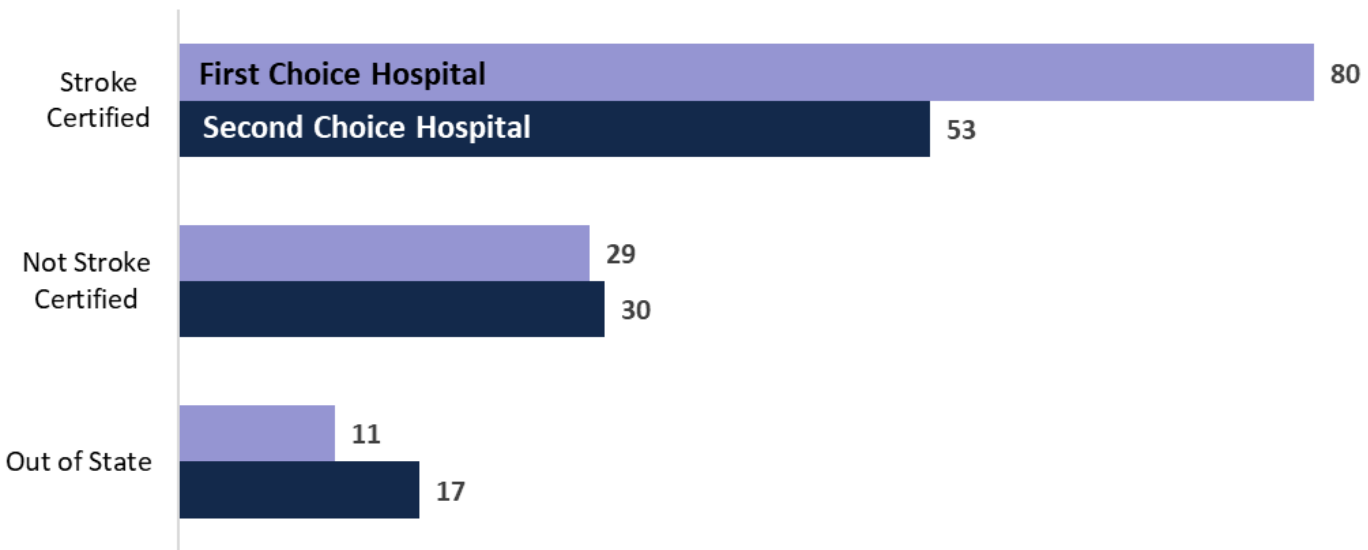
Most feedback from hospitals come in **a report created by the EMS agency.**



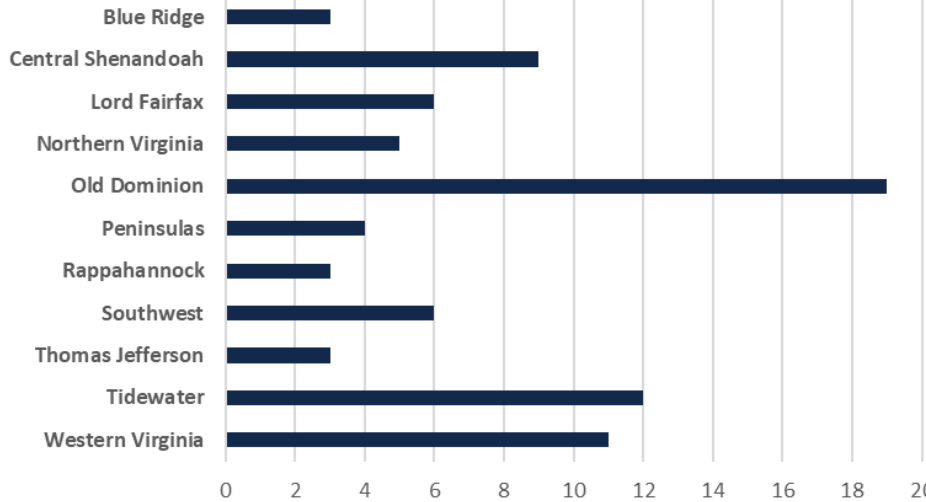
Patient Diagnosis is most helpful to EMS agencies.



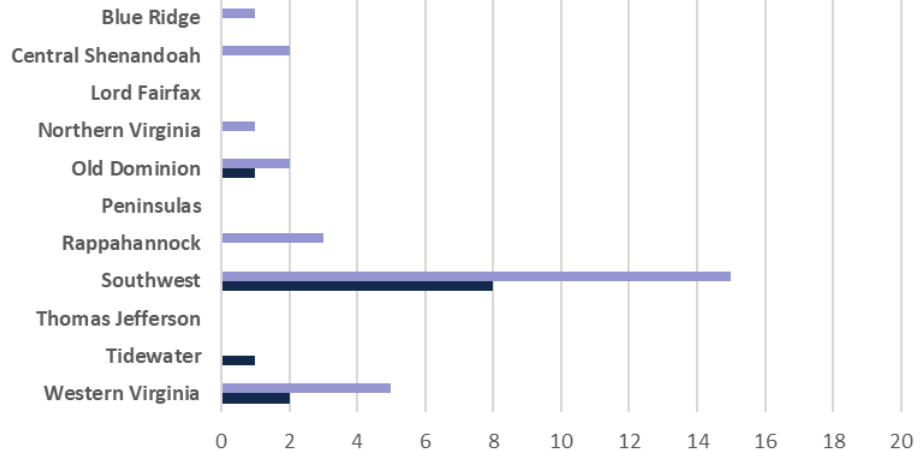
Two-thirds of agencies report transporting suspected stroke patients to a **stroke-certified hospital as their first-choice hospital location.**



Stroke Certified as First Hospital Choice by Region



Not Stroke Certified and Out of State as First Hospital Choice by Region



Stroke Registry Overview & Included EMS-Related data points

EMS-Related Data Points – Agency Information

- Agency Name
- Agency ID
- Agency Incident Number
- Patient Care Report Number
- Run Type
- Patient Disposition
- Reason for choosing destination
- Dispatch Delay
- Response Delay
- Transport Delay
- Agency Level of Care
- Transport Role

EMS-related Data Points – Dates & Times

- Call Time
- Unit Notified
- En Route
- Scene Arrival
- Patient Arrival
- Scene Departure
- Destination Arrival
- Patient Transfer
- Elapsed Scene Time
- Elapsed Transport

EMS-related Data Points – Narrative/Patient Information

- Pre-hospital Stroke Screen Type
- Pre-hospital Stroke Screen Result
- Pre-hospital Glucose Level
- Stroke Alert Sent to Hospital
- Primary Symptom
- Other Associated Symptoms
- Symptom Onset Date & Time
- Age
- Date of Birth
- Presence of Cardia Arrest
- Primary & Secondary Impression
- Narrative

Pre-Hospital/EMS QA Reports

Discussion and Activity