

## Northern Virginia Emergency Medical Services Council

Stroke Committee Meeting  
Thursday December 3, 2018  
10:00am



City of Fairfax Fire Station 403  
4081 University Drive  
Fairfax, Virginia 22030

Those present were: (\* indicates by phone)

Amy Baker, Inova Loudoun Hospital, [amy.baker2@inova.org](mailto:amy.baker2@inova.org)  
Jalil Bentaleb, Inova Alexandria Hospital, [abdeljalil.bentaleb@inova.org](mailto:abdeljalil.bentaleb@inova.org)  
William Dwyer, Arlington County Fire Department, [wdwyer@arlingtonva.us](mailto:wdwyer@arlingtonva.us)  
Rett Embrey, MD, Inova Mount Vernon/Lorton, [eclayiii@gmail.com](mailto:eclayiii@gmail.com)  
Craig Evans, Northern Virginia EMS Council, [craig@vaems.org](mailto:craig@vaems.org)  
Mary Fountain, Inova, [mary.fountain@inova.org](mailto:mary.fountain@inova.org)  
Tyler Gilbert, Get Ahead of Stroke, [tgilbert@ddcpublicaffairs.com](mailto:tgilbert@ddcpublicaffairs.com)  
Alison Haines, Novant Health UVA Health System, [ahaines@novanthealth.org](mailto:ahaines@novanthealth.org)  
Brian Hricik, Alexandria Fire Department, [brian.hricik@alexandriava.gov](mailto:brian.hricik@alexandriava.gov)  
Kate Kramer\* Arlington County Fire Department, [kkramer@arlingtonva.us](mailto:kkramer@arlingtonva.us)  
John Lawrence\*, Stroke Coordinator, Inova Mount Vernon Hospital, [john.lawrence@inova.org](mailto:john.lawrence@inova.org)  
Emily Marlow, Inova Fairfax Medical Center, [Emily.marlow@inova.org](mailto:Emily.marlow@inova.org)  
John Morgan, MD, Loudoun County Fire and Rescue, [john.morgan@loudoun.gov](mailto:john.morgan@loudoun.gov)  
Keith Morrison, HCA Reston Hospital Center, [keith.morrison@hcahealthcare.com](mailto:keith.morrison@hcahealthcare.com)  
Kate Passow\* PTS, [kpassow@ptsems.com](mailto:kpassow@ptsems.com)  
Alison Pinch, Inova Alexandria Hospital, [Alison.pinch@inova.org](mailto:Alison.pinch@inova.org)  
Ed Puccio, MD, Inova Loudoun Hospital, [Edward.Puccio@inova.org](mailto:Edward.Puccio@inova.org)  
Chris Schaff, HCA StoneSprings Hospital Center, [Michael.schaff@hcahealthcare.com](mailto:Michael.schaff@hcahealthcare.com)  
Eileen Snow\* Novant Health/UVA, [Eileen.snow@novanthealth.com](mailto:Eileen.snow@novanthealth.com)  
Jean Snyder, Inova Fair Oaks Hospital, [regina.snyder@inova.org](mailto:regina.snyder@inova.org)  
Jill Tyroler, Reston Hospital Center, [jtyroler@hcahealthcare.com](mailto:jtyroler@hcahealthcare.com)  
Venu Vadlamudi, MD, Inova Alexandria Hospital, [venu.vadlamudi@gmail.com](mailto:venu.vadlamudi@gmail.com)  
Laura Vandegrift, Northern Virginia EMS Council, [laura@vaems.org](mailto:laura@vaems.org)

The meeting was started at 10:08 am by Keith Morrison.

### **APPROVAL OF MINUTES:**

The minutes from the September 27, 2018, meeting were sent out by email for review. John Lawrence requested that the Inova Mount Vernon data presented at the meeting via video presentation be added to the minutes. The group agreed upon the addition and the minutes were subsequently unanimously approved.

### **DISCUSSION:**

#### **AHA Regional Data Update and Statewide Meetings Update**

Craig advised that the Council signed an agreement with AHA to be the data super user and Data Sharing Agreements are being sent to the hospitals for data usage which is essentially a rider on their current contracts with AHA. If there are any questions as to the agreement or what information will be shared or protected, etc., please contact Izzy from the AHA or Craig. Craig has requested letters from each of the hospitals as to what their capabilities are outside of Primary Stroke Center or Comprehensive Stroke Center whether it's imaging capabilities, etc., and what they're willing to share data. This is more for when we publish a Regional Stroke Plan it can say which hospitals can do what with some certainty. A letter has been received from both Inova Alexandria and HCA Reston Hospitals. Emily Morse from Inova advised that they'll be sending one letter for all 5 hospitals.

The Virginia Stroke Care Quality Improvement Advisory Group had their meeting October 19, 2018. A new law will go into effect 1/1/2019 to collect and provide stroke data. The group is responsible for gathering all the data and getting it to Virginia State Stroke Task Force who provide it to the Governor.

Virginia Department of Health is to compile master list of stroke-related metrics which fall into 4 categories:

1. Prevention/risk factors
2. Pre- hospital
3. In-hospital
4. Post-hospital

Craig sent out a spreadsheet with information to review and that isn't discussed today but Patrick Wiggins with the state wants feedback so everyone can send Craig their feedback and he'll compile it. Patrick Wiggins' report is due July 1, 2019.

AHA Update – Craig showed the AHA update from Izzy with AHA. Her presentation is attached.

#### **Inova 2018 Update with Dr. Venu Vadlamudi**

- In 2017 there was a 6.7% thrombectomy rate of all patients and all hospitals
- 2018 there were approximately 2000 ischemic strokes year to date
  - 210 patients received tPA which is an increase of about 5.5% over last year
  - 165 thrombectomies which is 38.6% increase
- Average door in/door out times (transfers to Inova Alexandria & Fairfax) was approximately 124 minutes
- Door to groin times
  - Inova Alexandria was 53.6 minutes
  - Inova Fairfax was 84.4 minutes
- Inova is moving to software called RAPID. This will allow perfusion scan data to get processed faster and pushed out to the neurosurgeons sooner.
  - Contract signed with RAPID and should roll-out in early 2019

### **Statewide Performance Measures**

Craig sent these via email to the group. The next State meeting is January 18, 2019.

- Please review the information sent since there was a significant amount of data sent and provide feedback to Craig and he will forward to the state.

### **Regional Stroke System Review & Roundtable**

- Dr. Edward Puccio from Inova Loudoun advised they're getting a full-time neurosurgeon in January and that will allow them to keep more hemorrhagic strokes at Loudoun instead of sending them out
- Jean Snyder from Inova Fair Oaks advised that they have a lot of walk-ins. They are trying to model it as if it were an EMS arrival and they will go to CT scan immediately instead of sitting in triage, etc.
- Ali Pinch from Inova Alexandria advised their community paramedicine program with Alexandria fire department is moving forward but there is a delay with legal in being able to share information.
  - Jalil Bentaleb advised they are also able to now give tPA in the CT room with reduces door to groin and door to vascularization times
- Jill Tyroler from HCA Reston provided their 3<sup>rd</sup> Quarter data:
  - 73 EMS "stroke" transports to Reston
    - 57% were called as Stroke Alert by EMS
      - 46% of those were positive for stroke
      - 20% went home
    - 6 were given tPA
    - 4 were transferred Fairfax because they were LVOs
    - Door to CT time is 17 minutes
    - Door to needle time is 46 minutes
  - They are also looking at a model similar to what Fair Oaks is looking at and meeting the patients at EMS door, getting tPA mixed by the pharmacy and sending the patient directly to CT scanner with positive evidence of a stroke
- Eileen Snow from Novant Prince William provided their data for the 2<sup>nd</sup> Quarter of 2018
  - Of the "Code Strokes" called in, 57% were determined not to be strokes by the ED physician
  - 16 EMS transports were considered strokes
    - 9 of those were considered "false" activations
    - Half of the remaining patients were treated for some type of stroke symptoms
    - Four were not treated
      - 1 had a recent CVA and was ruled out for tPA
      - 1 refused treatment
      - 1 was outside the treatment window

- 1 left against medical advice
  - Door to tPA time for January 1 through November 20, 2018, is 51 minutes and they're working hard to reduce that number
  - 28% of EMS "Code Stroke" arrivals were discharged to home from the ED on the same day
  - They had no LVOs in that data period
- John Lawrence from Inova Mount Vernon provided the following data
  - 10 thrombectomies year to date
  - Door in/door out time was 75 minutes for the 3<sup>rd</sup> Quarter
  - Door in/door out time was 73 minutes for the 4<sup>th</sup> Quarter
    - They're hoping to reduce those times and they're working hard with the new guidelines for treatment options to reduce those numbers
- Bill Dwyer from Arlington County Fire Department asked if we are tracking door out to door in transport times of stroke patients leaving one hospital to go to Inova Alexandria or Fairfax
  - Kate Passow from PTS tracks these numbers
    - She provides these to Fair Oaks and Mount Vernon but most of the Inova facilities are able to go in and retrieve them themselves
    - They track their own on-scene time and transport times but they cannot track how long the patient has been at the originating hospital before they arrive on-scene and transport
  - Emily Marlow from Inova advised they recently signed a contract with PTS to transfer all of their patients so they will also be able to easily see when the call was made to PTS which will start their clock for arrival and transfer in early 2019
  - Dr. Rett Embrey advised that for STEMIs Inova Alexandria Hospital tracks all times including pre-hospital, hospital time, transfer times, door to balloon times and they send the spreadsheet out to all members of the group and it would be helpful to do so for strokes because we can see times throughout the whole spectrum of the data and would be a good overall picture to view
- Dr. Vadlamudi advised that Sentara has tPA and CT capabilities as of May
  - Their LVO patients go to Inova Alexandria via Medical Transport,
  - Neurosurgery is on-call 24/7 via telemedicine

The next meeting will be held in early 2019, at the same location. An invitation will be sent to all members once a date is confirmed. The topic will be prior year data. Jalil Bentaleb also asked for focused feedback on the relationships with the hospitals and EMS because they are part of the stroke care team as well and they'd like to know how the hospitals and providers are doing with education to EMS. This feedback will help to increase relationships between the agency, hospital, and patient.

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The meeting was adjourned at 11:42 am.

CERTIFICATION OF THE REGIONAL OPERATIONAL MEDICAL DIRECTION COMMITTEE MEETING

Northern Virginia EMS Council  
7250 Heritage Village Plaza, Suite 102  
Gainesville, Virginia 20155

I, Craig Evans, Executive Director of the Northern Virginia EMS Council certify that the above minutes are a true and correct transcript of the meeting minutes of the Regional Stroke Committee held on December 3, 2018. The minutes were officially approved on \_\_\_\_\_, 2019.

\_\_\_\_\_  
Craig A. Evans

\_\_\_\_\_  
Date