

# **Capital Region**

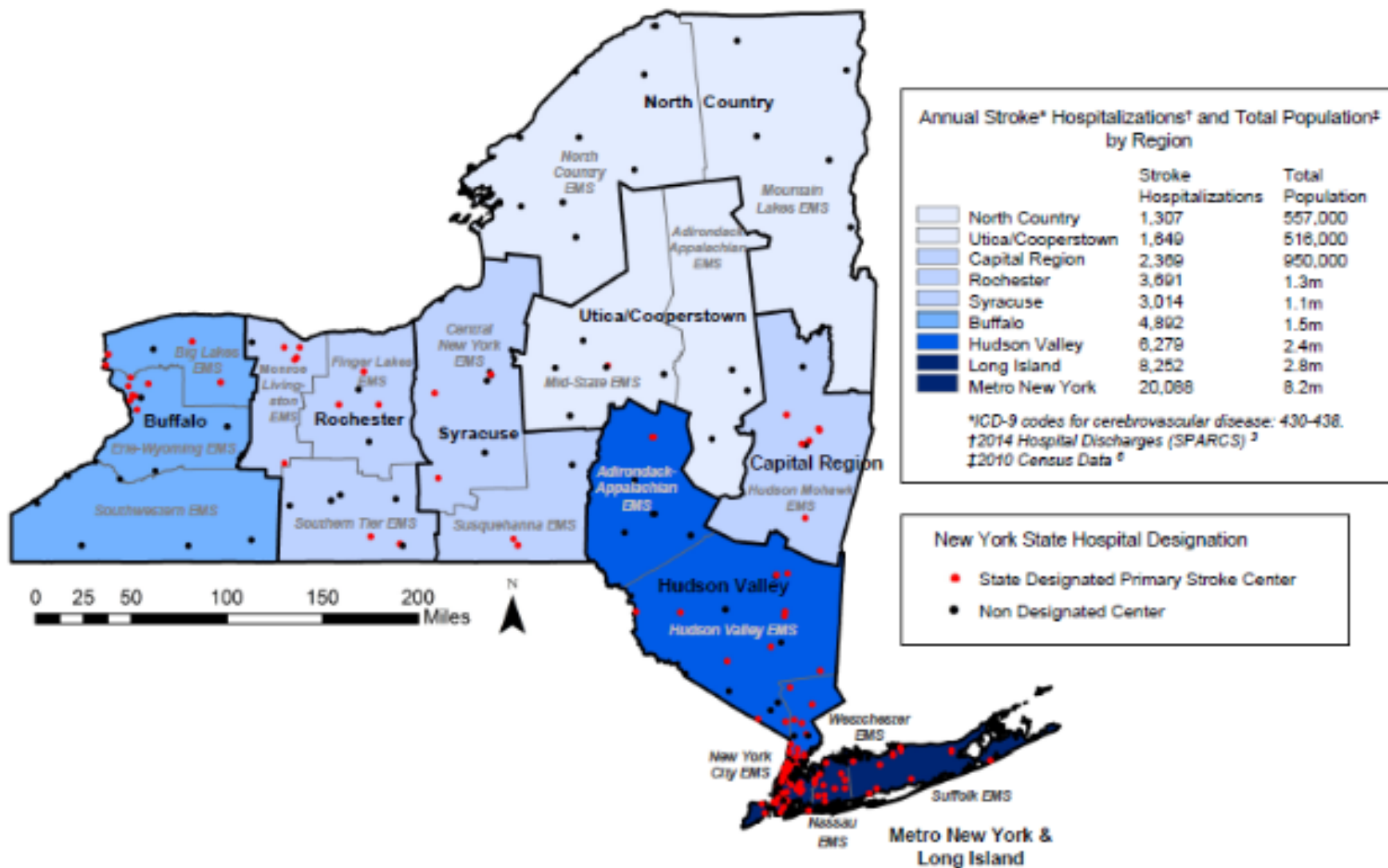
## **Mission: Lifeline Stroke Breakout Session**

**December 13, 2017**

**Baseline Review of Data**  
**New York State**  
GWTG-Stroke Data  
January 2016 – December 2016

# Mission: Lifeline Stroke

## The right treatment for the right patient at the right time.



### Arrival Mode, 2016 by New York Region % of patients (number of patients)

Arrival Mode	New York Region						
	NYC	Long Island	Hudson Valley/ Westchester	Capital/ Northeastern	Central	Rochester/ Finger Lakes	Western
<b>EMS from home/scene</b>	59.7% (9,518)	51.1% (4,170)	54.5% (2,699)	48.9% (1,456)	61.5% (2,080)	50.2% (1,962)	48.3% (1,849)
<b>Private transport/ taxi/other from home/scene</b>	29.4% (4,681)	37.4% (3,055)	35.2% (1,745)	25.9% (771)	20.8% (703)	34.3% (1,342)	30.6% (1,173)
<b>Transfer from other hospital</b>	9.8% (1,566)	11.0% (897)	10.1% (501)	24.9% (741)	16.8% (567)	14.0% (548)	20.7% (793)
<b>Not documented or unknown</b>	0.9% (148)	0.5% (37)	0.2% (8)	0.3% (9)	0.9% (30)	1.4% (53)	0.3% (13)
<b>Total N</b>	15,937	8,160	4,955	2,977	3,382	3,910	3,828

- Cases with a “blank” for Arrival Mode are not listed here, therefore the sum of the number of patients for each arrival mode may not equal the “Total N” for each region.

### Last Known Well to ED Arrival Times, 2016 (For patients who arrive by EMS from home/scene), by New York Region % of patients (number of patients)

LKW to Arrival Time Group	New York Region						
	NYC	Long Island	Hudson Valley/ Westchester	Capital/ Northeastern	Central	Rochester/ Finger Lakes	Western
<b>0-30 min</b>	3.7% (351)	3.4% (140)	3.9% (104)	3.2% (46)	2.3% (48)	3.0% (59)	2.2% (40)
<b>31-60 min</b>	10.5% (993)	13.6% (561)	13.8% (371)	10.1% (146)	12.5% (259)	10.2% (200)	10.1% (187)
<b>61-120 min</b>	12.2% (1,150)	11.2% (462)	14.1% (377)	16.2% (235)	17.0% (353)	15.6% (305)	14.3% (263)
<b>121-180 min</b>	5.9% (557)	5.5% (228)	6.2% (166)	8.1% (117)	6.9% (143)	6.4% (125)	6.1% (112)
<b>181-540 min</b>	12.7% (1,198)	35.3% (507)	13.1% (351)	15.2% (220)	16.6% (345)	12.8% (250)	13.6% (250)
<b>&gt;540 min</b>	14.1% (1,329)	11.1% (461)	9.8% (264)	15.3% (221)	15.6% (323)	14.0% (274)	15.1% (278)
<b>LKW or Arrival Time unknown, or Arrival ≥2 days after LKW</b>	42.9% (4,054)	43.6% (1,806)	39.6% (1,061)	32.9% (477)	30.9% (641)	38.9% (761)	39.2% (722)
<b>Total N</b>	9,456	4,137	2,681	1,448	2,073	1,956	1,843

• Cases with documented arrival and LKW time, and LKW to arrival ≥ 2 days, will be included in both the “>540 min” and “LKW or Arrival Time unknown, or Arrival ≥ 2 days after LKW” categories.

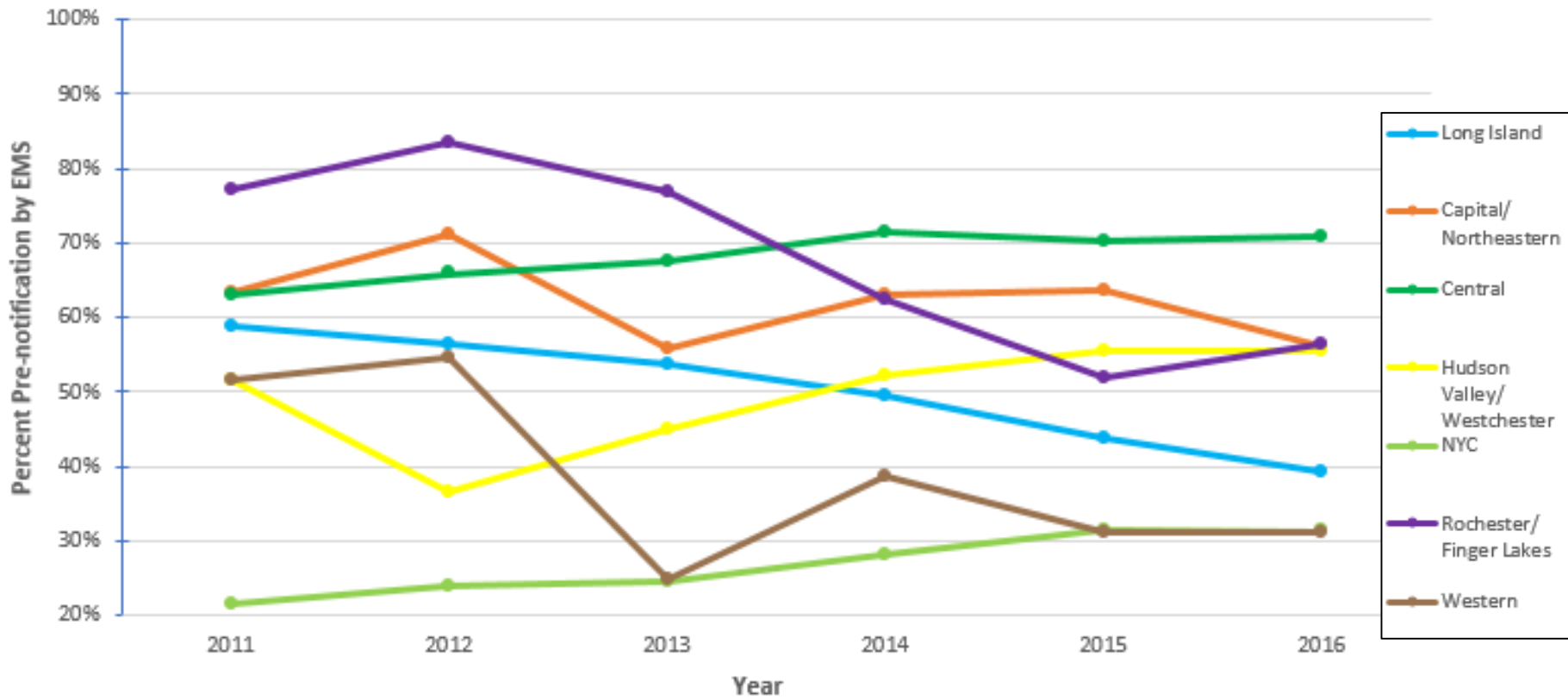
**Additional Stroke Care Measures, 2016**  
by New York Region  
% of patients (number of patients)

Measure	New York Region						
	NYC	Long Island	Hudson Valley/ Westchester	Capital/ Northeastern	Central	Rochester/ Finger Lakes	Western
<b>Ischemic Stroke patients who received IV tPA</b> (excluding patients with stroke after arrival)	10.7% (1,203)	9.6% (486)	11.6% (346)	11.0% (224)	12.2% (281)	10.5% (267)	9.4% (246)
<b>Ischemic Stroke patients who received IA catheter-based reperfusion</b> (excluding patients with stroke after arrival)	3.4% (382)	2.2% (113)	2.9% (88)	1.6% (32)	6.0% (138)	3.1% (79)	5.7% (149)

• IA catheter-based treatment includes both pharmacologic thrombolytic therapy and mechanical devices.

• Patients who receive IV tPA or IA catheter-based reperfusion at a non-GWTG hospital, who are subsequently transferred to a GWTG hospital, would not be captured in the measures for % of patients who received IV tPA, or IA catheter-based reperfusion.

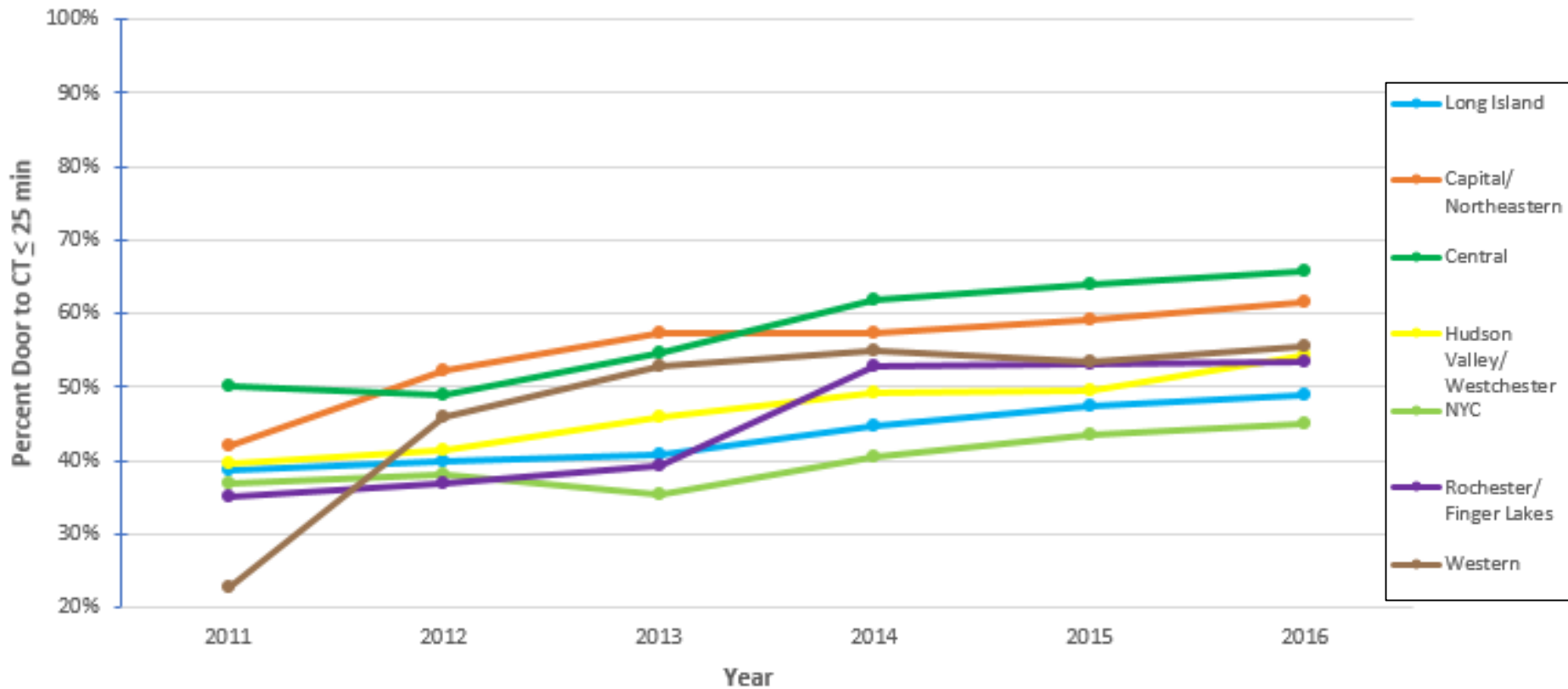
### Pre-notification by EMS, 2011-2016 (For patients who arrive by EMS from home/scene), by New York Region



Note: This data is a reflection of hospital documentation of pre-hospital care, and may not be a true reflection of care provided by EMS.

## Door to CT $\leq$ 25 min, 2011-2016

(For patients who arrive by EMS from home/scene)  
by New York Region



**Stroke Care Measures, 2016**  
by New York Region  
% of patients (number of patients)

	NYC	Long Island	Hudson Valley/ Westchester	Capital/ Northeastern	Central	Rochester/ Finger Lakes	Western
<b>Pre-notification by EMS</b>	31.3% (2,981)	<b>39.3%</b> (1,640)	55.4% (1,496)	56.2% (819)	70.9% (1,474)	56.5% (1,109)	31.2% (577)
<b>Door to CT ≤ 25 min</b>	44.9% (3,349)	<b>49.0%</b> (1,497)	54.4% (1,109)	61.4% (682)	65.7% (1,084)	53.4% (800)	55.6% (824)
<b>Time to IV tPA - 45min</b> (in eligible patients)	50.0% (430)	<b>40.5%</b> (125)	27.2% (70)	29.4% (50)	48.2% (118)	44.6% (95)	61.1% (118)
<b>Time to IV tPA - 60min</b> (in eligible patients)	85.8% (738)	<b>84.8%</b> (262)	67.3% (173)	64.7% (110)	77.1% (189)	82.6% (176)	90.7% (175)



## Prenotification Vs Stroke Team Activation PTA

Measure	New York Region						
	NYC	Long Island	Hudson Valley/ Westchester	Capital/ Northeastern	Central	Rochester/ Finger Lakes	Western
<b>Pre-notification by EMS</b>	31.3% (2,981)	39.3% (1,640)	55.4% (1,496)	56.2% (819)	70.9% (1,474)	56.5% (1,109)	31.2% (577)
<b>Stroke team activated prior to arrival**</b>	35.8% (675)	49.5% (437)	36.3% (327)	47.0% (214)	45.9% (373)	71.6% (649)	8.1% (27)

\*\*Percent of patients arriving via EMS for whom the stroke team was activated prior to patient arrival based upon EMS pre-notification.

**NYS Department of Health EMS Measures, 2016**  
by New York Region  
% of patients (number of patients)

Pre-Notification Content*	New York Region						
	NYC	Long Island	Central	Capital/ Northeastern	Hudson Valley/ Westchester	Rochester/ Finger Lakes	Western
<b>Pre-hospital stroke scale findings</b>	43.5% (820)	71.5% (631)	62.9% (511)	33.2% (151)	62.1% (559)	87.4% (567)	69.4% (231)
<b>Patient last known well (LKW)</b>	41% (772)	62.9% (555)	55.6% (452)	33.2% (151)	58.1% (523)	81% (1526)	65.8% (219)
<b>Pre-hospital stroke scale findings AND LKW</b>	37.6% (709)	60.7% (535)	52.3% (425)	30.3% (138)	53.9% (485)	80.1% (520)	61.3% (204)
<b>Total N</b>	1884	882	813	455	900	649	333

\*Where prenotification by EMS occurred, information communicated to receiving hospital.

# **Capital Region**

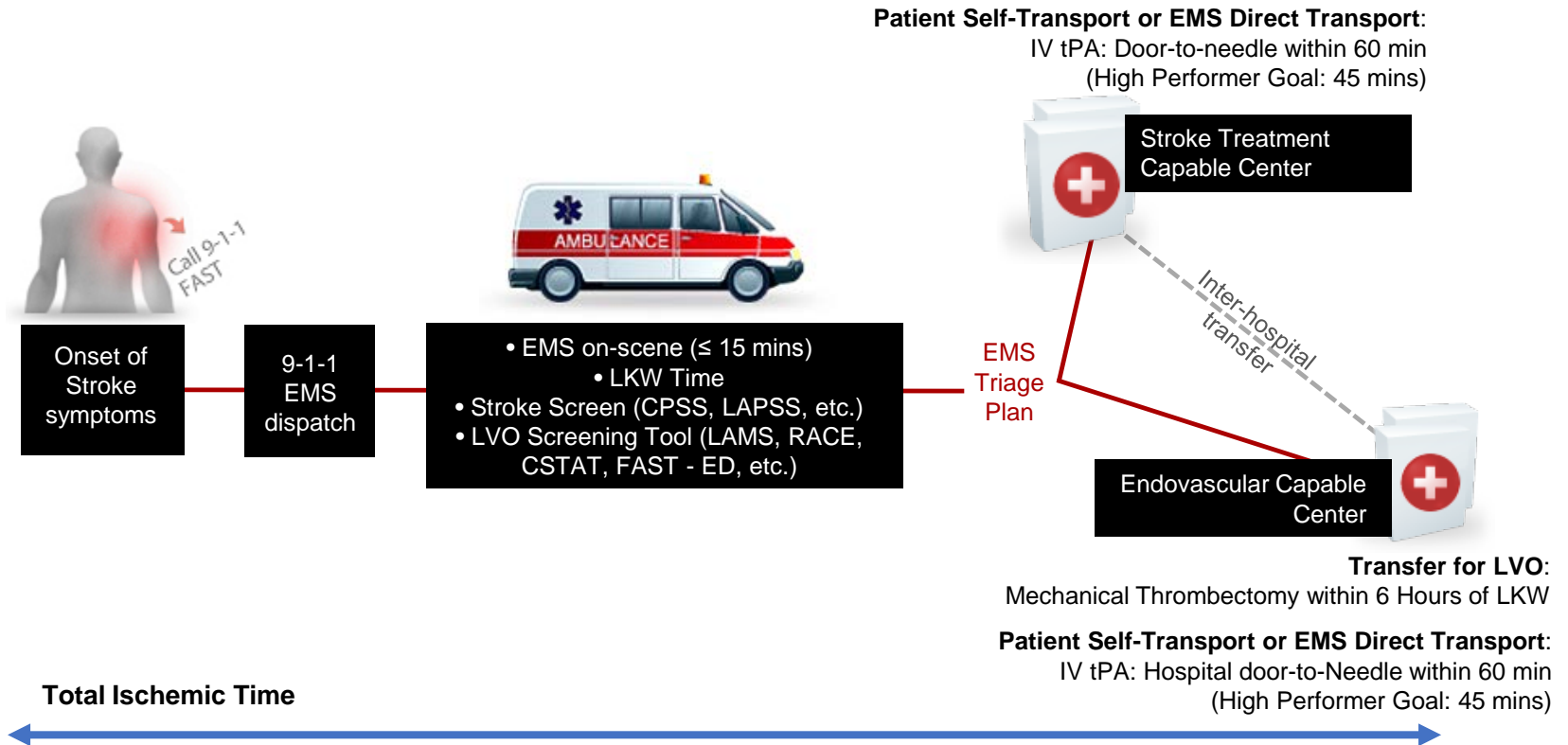
## **Mission: Lifeline Stroke**

### **Specific Opportunities**

### **Goals for 2018 Regional Stroke Systems of Care**

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### Severity-Based Stroke Triage Algorithm for EMS

