



*Kansas Board of
Emergency Medical Services*

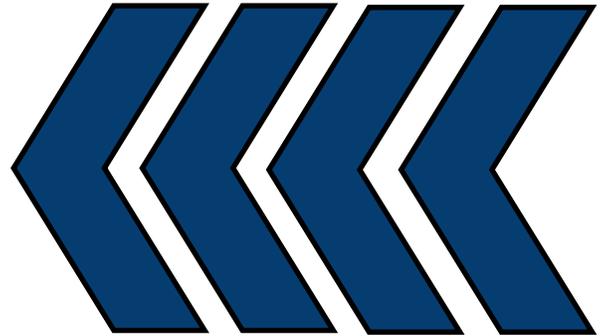
**COVERDELL STROKE
PERFORMANCE MEASURES**

KANSAS



ABOUT

The Paul Coverdell National Acute Stroke Program (Coverdell Program), is a Centers for Disease (CDC) funded program for states to develop comprehensive stroke systems. Through these state funded grants, a list of eight pre-hospital quality performance measures were identified. The goal of these measures is to improve the experience and outcomes of stroke patients while enhancing the communication between EMS and the hospital. This report assesses the performance of EMS in Kansas to National EMS records.



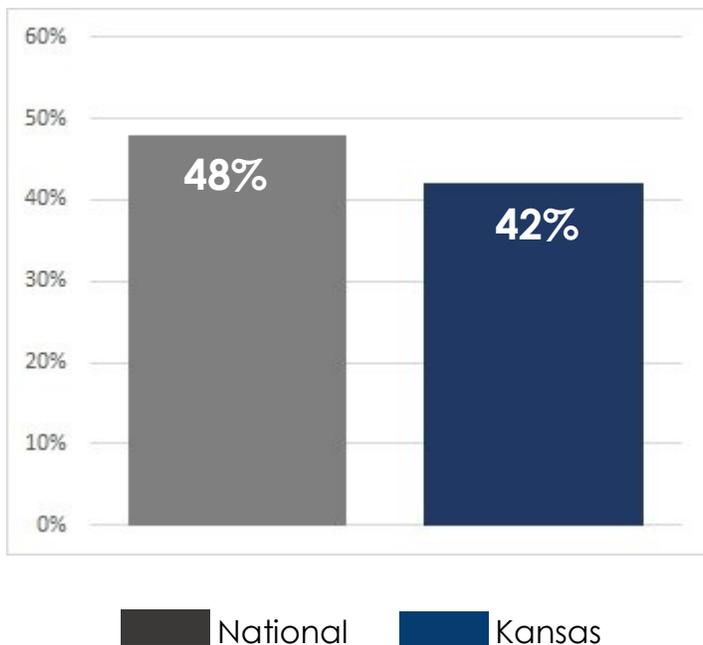
Measure ID	Description	Page
Coverdell-1	On-Scene Time	1
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Source: <https://emsa.ca.gov/wp-content/uploads/sites/71/2018/04/strokedocumentreliedupon.pdf>

Data Source: Biospatial; Incident Date Range 01/01/2021 - 12/31/2021

ON-SCENE TIME LESS THAN 15 MINUTES

42% of Kansas EMS responses had an on-scene time for stroke patients of less than 15-minutes.



Coverdell 1	
State	% True
Kansas	42%
National	48%

Kansas EMS Region Comparison	
Region 1	50%
Region 2	53%
Region 3	27%
Region 4	38%
Region 5	46%
Region 6	40%

MEASURE SCORE INTERPRETATION: For this measure, a higher score indicates better quality.

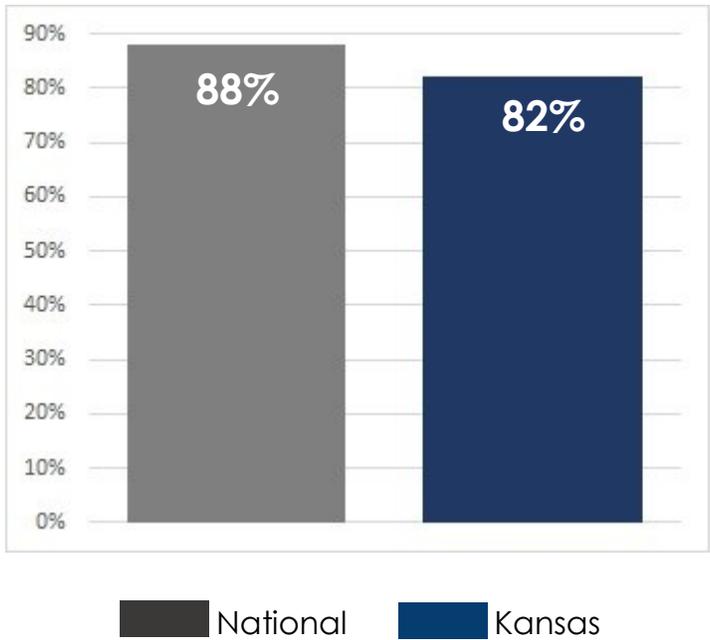
MEASURE DESCRIPTION: Percentage of suspected-stroke transports with an on-scene time less than 15-minutes as recommended by the Paul Coverdell National Acute Stroke Program.

MEASURE COMPONENTS:

Numerator Statement	The difference between unit arrival on scene time (eTimes.06) and the unit left scene time (eTime.09) is less than 15-minutes
Denominator Statement	All EMS responses originating from a 911 request for patients with a stroke event and patient disposition (eDisposition.12) is Treat, Transported by this EMS Unit.

BLOOD GLUCOSE CHECKED

82% of Kansas EMS suspected-stroke transports had their blood glucose level checked.



Coverdell 2	
State	% True
Kansas	82%
National	88%

Kansas EMS Region Comparison	
Region 1	74%
Region 2	72%
Region 3	79%
Region 4	81%
Region 5	86%
Region 6	76%

MEASURE SCORE INTERPRETATION: For this measure, a higher score indicates better quality.

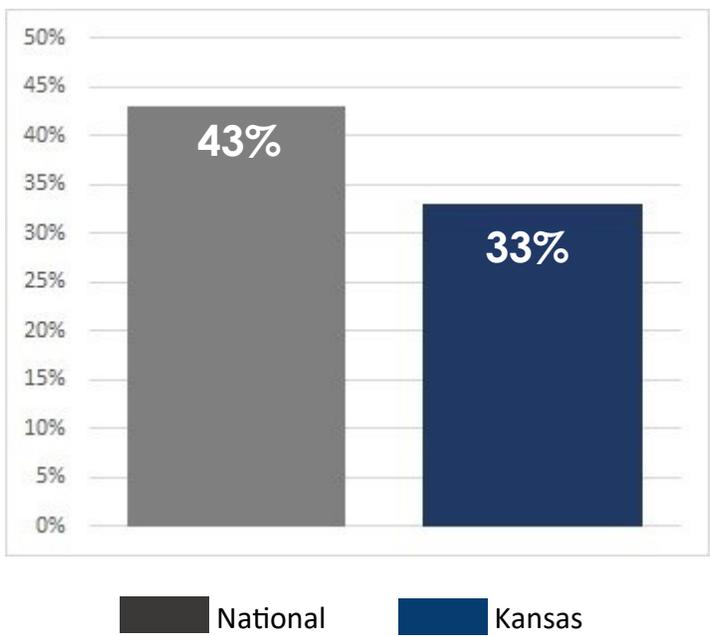
MEASURE DESCRIPTION: Percentage of EMS responses originating from a 911 request for suspected-stroke transports where a blood glucose level was checked.

MEASURE COMPONENTS:

Numerator Statement	The patient's blood glucose level (eVitals.18) is documented with a valid value.
Denominator Statement	All EMS responses originating from a 911 request for patients with a stroke event and disposition (eDisposition.12) equal to Treated, Transported by this EMS Unit.

STROKE PRE-NOTIFICATION ALERT CALLED IN BY EMS

33% of Kansas EMS suspected-stroke patients had a destination pre-notification alert called by EMS.



Coverdell 3	
State	% True
Kansas	33%
National	43%

Kansas EMS Region Comparison	
Region 1	49%
Region 2	14%
Region 3	31%
Region 4	45%
Region 5	34%
Region 6	33%

MEASURE SCORE INTERPRETATION: For this measure, a higher score indicates better quality.

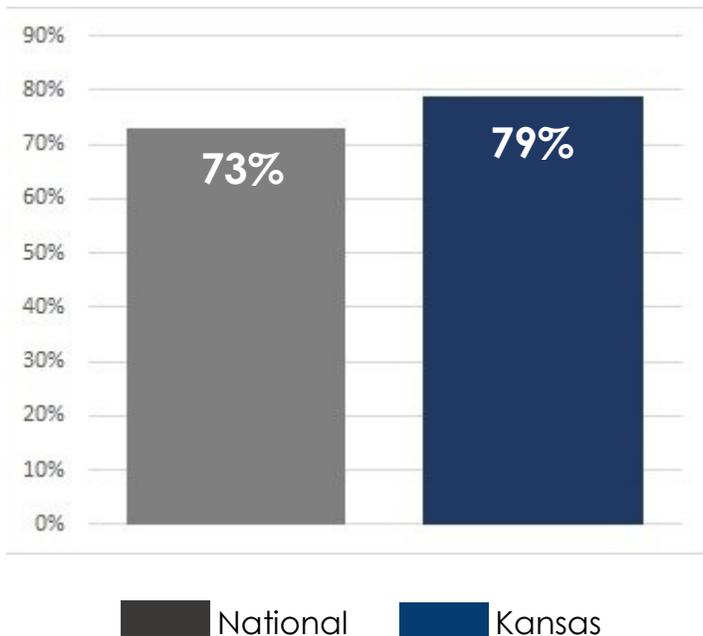
MEASURE DESCRIPTION: Percentage of EMS responses originating from a 911 request for suspected-stroke patient where EMS called a stroke alert pre-notification to the receiving facility.

MEASURE COMPONENTS:

Numerator Statement	EMS responses originating from a 911 request for suspected-stroke patient where a destination team pre-arrival alert or activation indicates stroke team activation. Destination team pre-arrival alert or activation (eDisposition.24) equals stroke.
Denominator Statement	All EMS responses (eResponse.05) originating from a 911 request for suspected-stroke patients with a disposition (edisposition.12) equal to Treated, Transported by this EMS Unit.

STROKE SCREEN COMPLETED AND RECORDED

79% of Kansas EMS suspected-stroke patients had a stroke scale score completed and documented.



Coverdell 4	
State	% True
Kansas	79%
National	73%

Kansas EMS Region Comparison	
Region 1	84%
Region 2	64%
Region 3	80%
Region 4	50%
Region 5	85%
Region 6	70%

MEASURE SCORE INTERPRETATION: For this measure, a higher score indicates better quality.

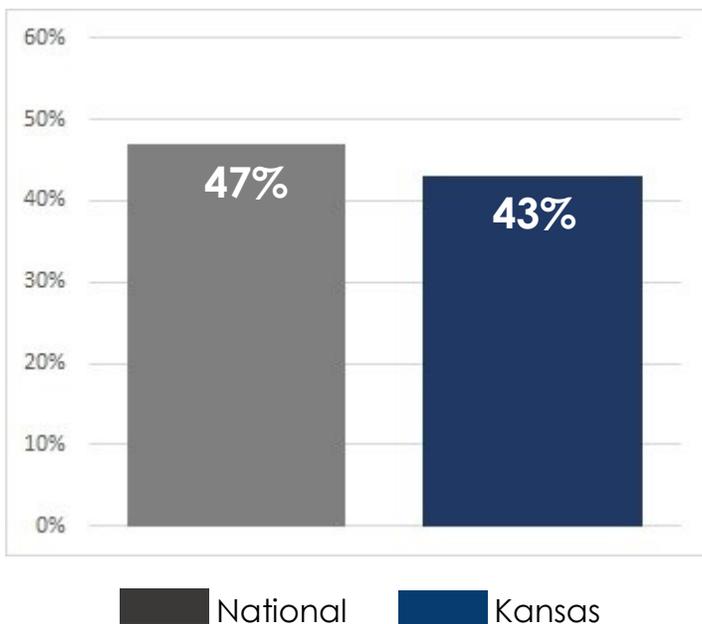
MEASURE DESCRIPTION: Percentage of EMS responses originating from a 911 request for suspected-stroke patients who received a pre-hospital stroke screen

MEASURE COMPONENTS:

Numerator Statement	EMS responses originating from a 911 request for suspected-stroke patients who have a stroke scale score (eVitals.29) documented.
Denominator Statement	All EMS responses (eResponse.05) originating from a 911 request for suspected-stroke patients with a disposition (edisposition.12) equal to Treated, Transported by this EMS Unit.

LAST KNOWN WELL TIME DOCUMENTED

43% of Kansas EMS 911 responses for suspected-stroke patients had a last known well date/time documented.



Coverdell 5	
State	% True
Kansas	43%
National	47%

Kansas EMS Region Comparison	
Region 1	6%
Region 2	0%
Region 3	59%
Region 4	5%
Region 5	46%
Region 6	19%

MEASURE SCORE INTERPRETATION: For this measure, a higher score indicates better quality.

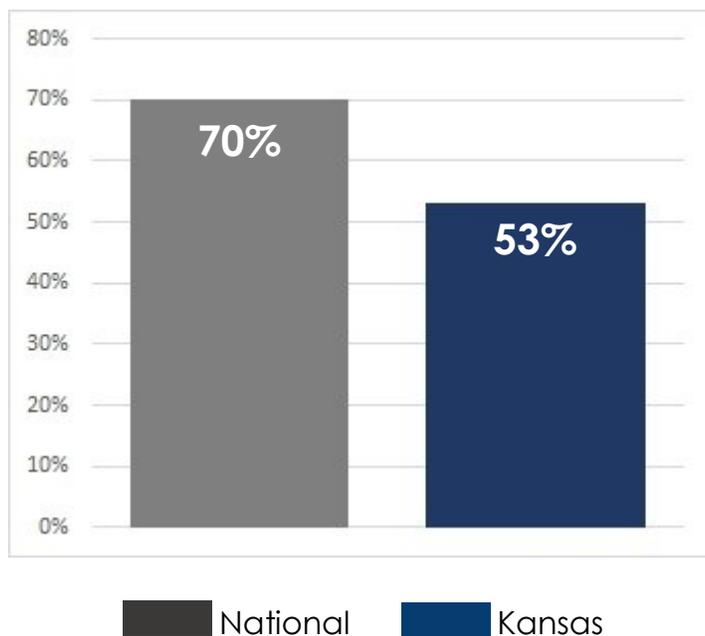
MEASURE DESCRIPTION: Percentage of EMS responses originating from a 911 request for suspected stroke patient who had a last known well date/time documented.

MEASURE COMPONENTS:

Numerator Statement	EMS responses originating from a 911 request for suspected-stroke patients who have a last known well date/time (eSituation.18) documented.
Denominator Statement	All EMS responses (eResponse.05) originating from a 911 request for suspected-stroke patients with a disposition (edisposition.12) equal to Treated, Transported by this EMS Unit.

TIME OF DISCOVERY DOCUMENTED

81% of Kansas EMS patients suffering from a suspected stroke received a stroke assessment.



Coverdell 6	
State	% True
Kansas	53%
National	70%

Kansas EMS Region Comparison	
Region 1	40%
Region 2	19%
Region 3	41%
Region 4	55%
Region 5	59%
Region 6	32%

MEASURE SCORE INTERPRETATION: For this measure, a higher score indicates better quality.

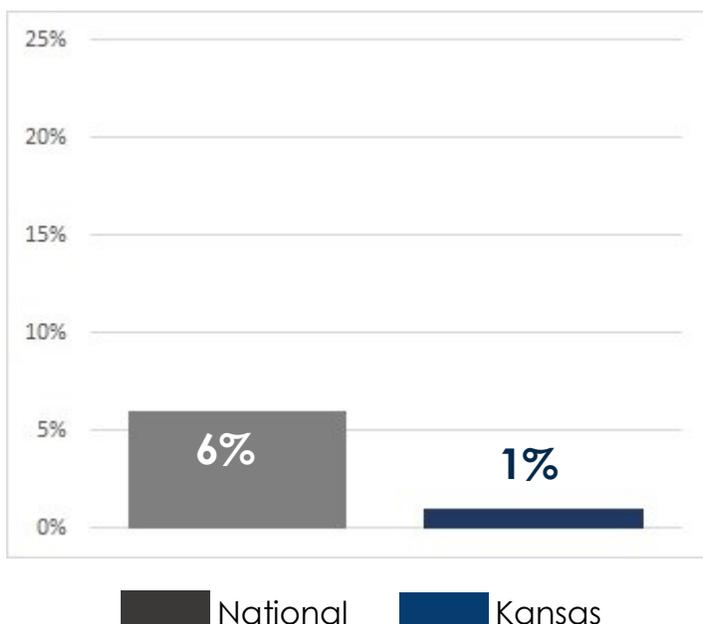
MEASURE DESCRIPTION: Percentage of EMS responses originating from a 911 request for suspected-stroke patients who have a time of discovery documented.

MEASURE COMPONENTS:

Numerator Statement	EMS responses originating from a 911 request for suspected-stroke patients who had a Date/Time of Symptom Onset (eSituation.01) documented.
Denominator Statement	All EMS responses (eResponse.05) originating from a 911 request for suspected-stroke patients with a disposition (edisposition.12) equal to Treated, Transported by this EMS

THROMBOLYTIC STROKE CHECK DOCUMENTED

1% of Kansas EMS suspected-stroke patients had a thrombolytic stroke check documented.



Coverdell 7	
State	% True
Kansas	1%
National	6%

Kansas EMS Region Comparison	
Region 1	1%
Region 2	0%
Region 3	1%
Region 4	0%
Region 5	0%
Region 6	4%

MEASURE SCORE INTERPRETATION: For this measure, a higher score indicates better quality.

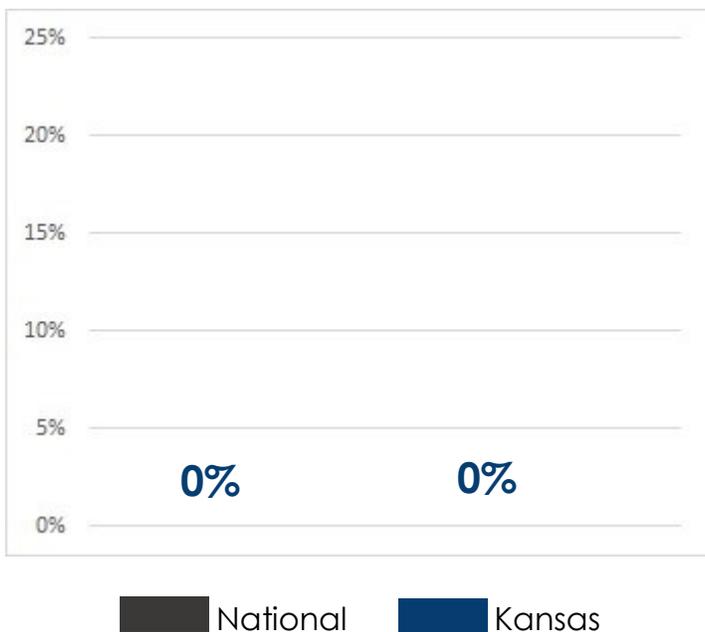
MEASURE DESCRIPTION: Percentage of EMS responses originating from a 911 request for suspected-stroke patients who had a thrombolytic screen documented.

MEASURE COMPONENTS:

Numerator Statement	EMS responses originating from a 911 request for suspected-stroke patients who had a Reperfusion Checklist (eVitals.31) documented.
Denominator Statement	All EMS responses (eResponse.05) originating from a 911 request for suspected-stroke patients with a disposition (edisposition.12) equal to Treated, Transported by this EMS

EMS PROVIDER IMPRESSION AGREES WITH HOSPITAL DIAGNOSIS

0% of Kansas EMS suspected-stroke patients had the provider impression agree with the hospital diagnosis.



Trauma-04		
State	% True	% Unknown
Kansas	0%	100%
National	0%	100%

Kansas EMS Region Comparison		
Region 1	0%	100%
Region 2	0%	100%
Region 3	0%	100%
Region 4	0%	100%
Region 5	0%	100%
Region 6	0%	100%

MEASURE SCORE INTERPRETATION: For this measure, a higher score indicates better quality.

MEASURE DESCRIPTION: Percentage of EMS responses originating from a 911 request for patients who meet CDC criteria for trauma and are transported to a trauma center.

MEASURE COMPONENTS:

Numerator Statement	EMS responses originating from a 911 request for suspected-stroke patients who had the EMS provider impression that agreed with the hospital diagnosis.
Denominator Statement	All EMS responses (eResponse.05) originating from a 911 request for suspected-stroke patients with a disposition (edisposition.12) equal to Treated, Transported by this EMS Unit.

Special thanks to the Kentucky Board of EMS for allowing us to use their template to edit and publish our performance



Kansas Board of Emergency Medical Services



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