

## Coverdell Stroke EMS Performance Measures 2023

## Foothills and Mile-High RETAC Regional Medical Direction Program





## What is the Paul Coverdell National Acute Stroke Program?

The Coverdell Stroke Program, established in 2001, is CDC program that focuses on improving stroke care in the U.S. Named after Senator Paul Coverdell, who died from a stroke. It aims to address the significant public health burden posed by strokes. A key part of the program is its emphasis on EMS performance measures.

These measures aim to enhance the timeliness and quality of acute stroke treatment by improving EMS protocols. This includes implementing protocols for identifying stroke symptoms in the field, minimizing scene time, initiating pre-hospital stroke assessments, and prioritizing rapid transport to stroke-ready facilities.

Through these efforts, the Coverdell Stroke Program aims to reduce delays in stroke treatment and improve outcomes for patients. By promoting standardized EMS practices and facilitating data collection and reporting, the program contributes to ongoing quality improvement initiatives in stroke care nationwide.

While Colorado is not a state that has received grant funds for this program, the program has established a national standard for evaluating the performance of stroke care. This report includes selected measures for the Foothills and Mile-High RETAC and a discussion on options to improve stroke care performance across the region.

Measure ID	Description
Coverdell-2	Glucose
Coverdell-3	Pre-notification
Coverdell-4	Stroke Screen
Coverdell-5	Last Known Well
Coverdell-8	Impression

Data are provided by Colorado Department of Public Health and Environment (CDPHE) Emergency Medical and Trauma Services Data Section from the third-party biospatial platform for the date ranges of 1/1/2023 to 12/31/2023. Stroke is defined in biospatial if one or more of the following are true:

- Provider primary or secondary impression (eSituation.11, eSituation.12) indicate any of the following ICD-10-CM codes (sub-codes included): I60, I61, I63, G45, G46.3, G46.4.
- Stroke scale score (eVitals.29) indicates a positive stroke assessment.
- Protocols used (eProtocols.01) is 9914145: "Medical-Stroke/TIA".
- Destination Team Pre-Arrival Alert or Activation (eDisposition.24) is 4224015: "Yes - Stroke". Data is for trending purposes only and has not be verified for complete accuracy.

The Paul Coverdell National Acute Stroke Program Resource Guide can be found at this link: <u>https://emsa.ca.gov/wp-content/uploads/sites/71/2018/04/strokedocumentreliedupon.pdf</u>





parameters. This measure requires completion of Destination Team Pre-Arrival Alert or Activation (eDispostion.24) NEMSIS element. The Regional Medical Liaisons recognize these numbers do not reflect actual practice in the field. There is a significant opportunity for improvement in the region. This may be through streamlining process and/or improvement of documentation.



NEMSIS compliant program.



Coverdell 8: Impression									
EMS provider impression agrees with bospital diagnosis									
100%									
		UNKNOWN 99%		UNKNOWN 99%			UNKNOWN 99%		
0%									
		Footh	ills		Mile-High		Colorado		
Measu	re Score	e Interp	oretation	For this quality.	measure,	a higher score i	indicates b	etter	
Percentage of suspected-stroke transports whereMeasure Description:EMS provider impression agreed with hospital							vhere al		
diagnosis. Measure Components:									
Numerator EMS re			ponses originating from a 911 request for suspected-						
Statement		stroke patients who had the EMS provider impression that agreed with the hospital diagnosis.							
	All EMS responses originating from an emergency response						ponse		
Statement (911			(911) fo made a	1) for patients with a stroke event where patient contact was ade and patient was transported.					
Analysis and Recommendations:									
The purpose of this measure is to assess agreement between EMS suspected									
strokes and hospital confirmed strokes. This is important for EMS education to gain further knowledge on possible presentations of acute stroke and to make the best									
possible triage decisions and encourages feedback from facilities. Many agencies are									
Diagnosis eOutcome.13, however, this required information is not currently being									
receiving outcome data work with their vendors to transmit this information to the									
state. For those not currently receiving outcome data, contact your vendor for options and discuss this with your receiving facilities									
and discuss this with your receiving facilities.									

## Appendix: PCR Counts by Measure

2023 Counts of PCRs by Measure	Foothills	Mile-High	Colorado
Coverdell 2: Glucose	1,428	3,997	11,475
Coverdell 3: Pre-notification	1,431	4,002	11,501
Coverdell 4: Screen	1,398	3,172	9,897
Coverdell 5: Last Known Well	1,431	4,002	11,501
Coverdell 8: Impression	1,431	4,002	11,501

<sup>i</sup> Powers, Willia J. "Guidelines for the Early Management of Patients with Acute Ischemic Stroke: 2019 Update to the 2018 Guidelines for the Early Management of Acute Ischemic Stroke: A Guideline for Healthcare Professionals from the American Heart Association/American Stroke Association | Stroke." Stroke, www.ahajournals.org/doi/10.1161/STR.000000000000211. Accessed 5 May 2024. <sup>ii</sup> https://www.heart.org/-/media/Files/Professional/Quality-Improvement/Recognition-Criteria/2024/ML\_EMSRecognition2024.pdf