

# EMS Quality Improvement Report

2022 Q1-Q2



## Montana, National, and Sample Agency

This report shows national-, state-, and agency-level performance on selected QI measures covering a variety of time-sensitive illness and injury topics. Agencies can use this information to identify potential QI projects, prioritize trainings, and track/trend their progress over time. Measure definitions and rationales are available on the EMSTS website. Please contact Rob Farnum (kbarrconsulting8@gmail.com, 641-932-8022) or Hannah Yang (hannah.yang@mt.gov) with questions or comments.

### Suspected Stroke

Measure	National		Montana		Sample Agency	
	% True	Denominator	% True	Denominator	% True	Denominator
1.1- Coverdell 1: On-scene Time <15 Minutes*	47%	153,454	53%	816	50%	2
1.2- Coverdell 2: Glucose Check Documented*	88%	153,454	80%	816	50%	2
1.3- Coverdell 3: Stroke Alert to Hospital*	43%	153,454	28%	816	0%	2
1.4- Coverdell 4: Stroke Screen*	74%	153,454	69%	816	50%	2
1.5- Coverdell 5: Last Known Well Time*	54%	153,454	39%	816	0%	2
1.6- Coverdell 6: Symptom Onset (Time of Discovery)*	66%	153,454	72%	816	50%	2
1.7- Coverdell 7: Thrombolytic checklist*	6%	153,454	4%	816	0%	2

### Cardiac Chest Pain & Suspected STEMI

Measure	National		Montana		Sample Agency	
	% True	Denominator	% True	Denominator	% True	Denominator
2.1- Chest Pain/STEMI: Aspirin Administration	45%	433,650	37%	1,953	12%	17
2.2- Chest Pain/STEMI: 12-Lead ECG Performed	48%	536,316	41%	2,307	12%	17
2.3- Chest Pain/STEMI: EMS Arrival to 12-Lead <10 Minutes	64%	256,145	59%	947	100%	2
2.4- STEMI: On-scene Time <15 Minutes*	43%	39,902	50%	167	N/A	
2.5- STEMI: STEMI Alert to Hospital <10 Minutes from ECG*	31%	18,434	47%	83	N/A	

### Out-of-Hospital Cardiac Arrest

Measure	National		Montana		Sample Agency	
	% True	Denominator	% True	Denominator	% True	Denominator
3.1- Cardiac Arrest Prior to EMS Arrival: Unwitnessed	62%	106,249	59%	472	56%	9
3.2- Cardiac Arrest Prior to EMS Arrival: Bystander Witnessed	36%	106,249	41%	472	44%	9
3.3- Cardiac Arrest Prior to EMS Arrival: Bystander CPR	36%	106,249	38%	472	22%	9
3.4- Cardiac Arrest Prior to EMS Arrival: AED Applied	24%	106,249	22%	472	0%	9
3.5- OHCA: Witnessed by EMS	9%	117,124	8%	522	0%	9
3.6- OHCA: Initial Cardiac Rhythm Documented	86%	117,124	96%	522	100%	9
3.7- OHCA: Cardiac Arrest Alert to Hospital*	23%	43,507	33%	180	33%	6
3.8- OHCA: Sustained ROSC	4%	117,124	3%	522	0%	9

### Safety

Measure	National		Montana		Sample Agency	
	% True	Denominator	% True	Denominator	% True	Denominator
4.1- Safety: No Lights and Sirens during Response to Scene	14%	13,218,183	21%	53,971	0%	932
4.2- Safety: No Lights and Sirens during Patient Transport*	48%	7,540,346	83%	34,005	88%	718

### Traumatic Brain Injury

Measure	National		Montana		Sample Agency	
	% True	Denominator	% True	Denominator	% True	Denominator
5.1- TBI: Total GCS Documented	93%	211,646	87%	1,797	93%	46
5.2- TBI: HR Documented	95%	211,646	91%	1,797	93%	46
5.3- TBI: RR Documented	94%	211,646	78%	1,797	91%	46
5.4- TBI: SBP Documented	92%	211,646	87%	1,797	93%	46
5.5- TBI: SpO2 Documented	86%	211,635	86%	1,797	93%	46
5.8a- TBI: Oxygen Administration	7%	211,646	9%	1,797	9%	46
5.8b- TBI: Oxygen Administration within 1 Minute	0%	211,635	0%	1,797	0%	46
5.9a- TBI: No Hypotension	89%	211,646	86%	1,797	93%	46
5.10a- TBI: No Hypoxia (90%)	81%	211,646	79%	1,797	87%	46
5.11a- TBI: No Hypoxia (92%)	78%	211,635	75%	1,797	85%	46
5.12a- TBI: No Hyperventilation for patients with PPV	20%	3,287	8%	37	N/A	

### Severe Trauma

Measure	National		Montana		Sample Agency	
	% True	Denominator	% True	Denominator	% True	Denominator
6.1- Severe Trauma: Total GCS Documented	96%	224,833	95%	1,136	87%	23
6.2- Severe Trauma: HR Documented	97%	224,833	95%	1,136	87%	23
6.3- Severe Trauma: RR Documented	97%	224,833	90%	1,136	74%	23
6.4- Severe Trauma: SBP Documented	93%	224,833	89%	1,136	78%	23
6.5- Severe Trauma: Oxygen Administration	17%	224,833	20%	1,136	30%	23
6.6- Severe Trauma: On-scene Time < 10 Minutes*	18%	191,480	19%	1,032	68%	22
6.7- Severe Trauma: Trauma Alert to Hospital*	22%	191,480	21%	1,032	45%	22

### Motor Vehicle Crash

Measure	National		Montana		Sample Agency	
	% True	Denominator	% True	Denominator	% True	Denominator
7.1- MVC: Location of Patient in Vehicle Documented	75%	539,419	62%	2,350	68%	25
7.2- MVC: Occupant Safety Equipment Documented	74%	539,419	53%	2,350	60%	25
7.3- MVC: Total GCS Documented	91%	539,419	82%	2,350	80%	25
7.4- MVC: HR Documented	90%	539,419	80%	2,350	76%	25
7.5- MVC: RR Documented	91%	539,419	73%	2,350	76%	25
7.6- MVC: SBP Documented	87%	539,419	76%	2,350	76%	25
7.7- MVC: Scene Location Documented	96%	539,419	94%	2,350	96%	25
7.8- MVC: Scene GPS Documented	47%	539,419	28%	2,350	0%	25

Report Printed: 8/18/2022

All measures based on 911 responses. (\*) denotes measures that are restricted to 911 transports