

STEMI Care Committee Meeting Tuesday, August 20th, 10:00 AM –12:00 PM

Facilitator: Gregory Kann, M.D.; EMS Agency Medical Director

Meeting Minutes: Sydney Freer, EMS Coordinator

ITEM	Details (Key facts, Questions, Concerns)	Action Items/Decision
Welcome and Introductions	Meeting start time 10:00 am	None
Approval of Minutes – May 21, 2024	Motion: Julie Carrington Second: Jeremy Veldstra	None
Old Business	Discussion	Action Items/Decision
ImageTrend Patient Registry	Sydney Freer: I have one hospital that has not uploaded data into ImageTrend Patient Registry. I am seeing good data from the rest of the hospitals. There is one issue on the ImageTrend side of things where I cannot see EMS numbers, but that is not a problem from your end. Because I am missing one hospital, I did not do the data comparison between EMS STEMI Alerts and the hospital STEMI data. I am planning on doing that data project prior to the next meeting. Brian Morr: If I wanted to get individual outcome data what data points would I give you? EMS Number? Name? DOB? Sydney Freer: Yes, any or all that. The only problem with getting outcome data directly from me is that I do not	



Data Review and Analysis	Sydney Freer: At MSJ I had this conversation but it was during the transition of STEMI program management so I will follow up again with them. I will also follow up with Kaiser because I was under the impression feedback was still happening following our discussions last year. Sydney Freer: The policy additions discussed last meeting regarding post-ROSC care will be approved at the next MAC meeting and so go live May of next year. Discussion Slide One: Julie Carrington: There is a new data point that is Positive 12-Lead to Alert. They want that to be 10 minutes or loss. Alert can be electronic or verbal. We	Sydney to follow up with hospitals regarding feedback to the field. Action Items/Decisions
EMS STEMI Data		



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Slide 2: Serina Felcher: Are you measured on this 90 th percentile scene time? What is the average time they are looking for?	
Brian Morr: At my agency, they need to do a 12-lead within 5 minutes 90% of the time. And transmit within 2 minutes. And they are off scene less than 10 minutes after ambulance arrival. The big issue we are seeing here is that paramedics are sitting there without an ambulance available.	
Dr. Kann: Also, every scene call is going to be different. It is a great conversation for EMS folks to be able to paint the picture of what they deal with.	
Amelia Hart: I think it would be helpful to steal part of Rudnicki's presentation showing this person had a heart attack, these ambulances were on the wall, this was the closest medic, and this is how long it took for when the cardiologists are here.	Metro Fire to present on ambulance availability during time sensitive events.
Julie Carrington: Also, for your presentation, including the EMS side of things for them to provide information on the condition of the patient.	
Slide Two: Sydney Freer: One thing me and Fred noticed when looking at this data was that the numbers of 'ECG of STEMI' and 'STEMI alerts' are both higher than the number of patients with a primary impression STEMI. I know primary impression is multi-faceted and has a lot of options, but I want us to encourage using the STEMI primary impression when we have a positive ECG and are calling an alert.	
Julie Carrington: The Zols overread. So, it may be positive as STEMI, but the patient presentation leads them to not think that.	



Case Presentations	Discussion	Action Items/Decisions
Case Presentation: SRMC	Patient Presentation: Debbie Madding and April Williams	
Round Table	Discussion	Action Items/Decisions
	Julie Carrington: We are currently training on our STEMI process with the monitors and adding patient initials. To help combat the first medical contact time, I have added some validations for when a medic answers they are not the first on scene. And I will be tracking that. Brian Morr: We switched to ImageTrend yesterday morning so please let me know if you are having issue seeing our ePCRs. Adam Blitz: In March we trained on how to find where your artifact is coming from, and it has really made a difference. Debbie Madding: We are going to Sierra Nevada for a run review on Thursday the 29 th and the topic is STEMI review and transport. All are welcome.	
Adjournment	Adjourned at 11:15 am	Next meeting: November 19, 2024 10 am – 12 pm





Department of Health Services Emergency Medical Services Agency STEMI Care Committee 2024 Case Presentation Rotation

Date:	2/20/2024	5/21/2024	8/20/2024	11/19/2024
KHR		Х		
KHS	Х			
MGH				Х
MSJ		Х		
SMCS				Х
SRMC			Х	
UCDMC				Х

	STEMI Liaisons											
Contacts	KHR	KHS	MGH	MSJ	SMCS	SRMC	UCD					
Primary	Heather Beere, MSN, MBA	Jennifer Bowers	Maryam Gol	Scott Brunton, RN	April Yeargin, RN STEMI	Debbie Madding, RN, BS, MICN	Taufa Lee					
Secondary		Wendin Gulbransen		Amelia Hart	Serina Felcher	George Fehrenbacher, Dr	Jeremy Veldstra RN-MICN					

SCENE Calls (911-Response) - 2024 - 1Quarter	Incident Count	Percentages	Notes				
Total ePCRs received	86,485	100%	All records				
Responses (Emergent Response)	60,516	69.97%	of total responses				
Treated and Transported (Emergent Response)	33,415	38.64%	of 911 responses transported to the ED				
Primary Impressions of Scene calls treated and transported	Incident Count	Percentages	Notes				
Chest Pain - STEMI	162	0.48%	of treated and transported				
Chest Pain - Suspected Cardiac	1,160	3.47%	of treated and transported				
Syncope/Near Syncope	899	2.69%	of treated and transported				
IV Starts	Incident Count	Percentages	Notes				
Right Side	175	7.88%	of treated and transported with Primary Impression STEMI / Suspected Cardiac/ Syncope				
Left Side	816	36.72%	of treated and transported with Primary Impression STEMI / Suspected Cardiac /Syncope				
Not Recorded/Not Applicable/Other Peripheral/Blank	1158	52.12%	of treated and transported with Primary Impression STEMI / Suspected Cardiac / Syncope				

STEMI Dashboard - EMS Data

STEMI	System Total 2023 2Q	System Total 2023 3Q	System Total 2023 4Q	System Total 2024 1Q
Total transported patients with primary impression of STEMI	126	191	157	162
90 th Percentile Scene Time to Unit Depart Scene of Primary Impression STEMI and (+) ECG of STEMI (Transporting Unit)	00:18:14	0:19:00	0:23:31	0:18:45
Patient with eVitals.03 or eDevice.08 documenting ECG of STEMI (All Patients, Regardless of Primary Impression)	60	65	56	<mark>172</mark>
Percentage of STEMI primary impressions with a STEMI ECG	47.62%	34.03%	35.67%	83.95%
All patients with a pre-arrival notification (of STEMI ECG)	56	52	53	<mark>182</mark>
% Pre-arrival notification (of STEMI ECG)	93.33%	80%	94.64%	85.38%
Total of patients with No ECG of STEMI documentation, but with a STEMI pre-arrival notification		106	86	28
% Pre-arrival notification (No ECG STEMI / Total)		55.50%	54.78%	17.28%

STEMI Primary Impression for Treated and Transported Patients

Hospital Name	2023-2Q	2023-3Q	2023-4Q	2024-1Q		
KHR	8	18	9	11		
KHN	0	0	0	1		
KHS	37	36	53	39		
MHF	2	0	1	0		
MGH	12	37	22	25		
MSJ	39	43	42	39		
SMCS	15	30	15	22		
MHS	1	1	1	0		
SRMC	4	8	5	8		
UCD	8	18	9	16		
Totals	126	191	157	162		

<u>Unit Arrived Scene to First ECG for Primary Impression of STEMI or ECG of</u> <u>STEMI in Decimal Minutes*</u>

Transporting Agency	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total Average
Agency 1	7.38	8.06	8.36	7.58	4.38	10.86	13.40	8.63	15.42	5.36	5.63	5.58	8.39
Agency 2	11.39	7.42	7.38	8.43	9.88	4.88	11.67	5.77	8.87	8.71	6.81	7.29	8.21
Agency 3	15.19	9.00	11.15	10.80	15.74	10.58	18.23	15.41	15.53	14.59	9.93	10.72	13.07
Agency 4	5.40	3.57	4.34	4.46	4.86	4.30	8.31	6.53	4.21	5.08	4.72	5.81	5.13
Agency 5	8.72	17.41	14.95	8.69	8.34	6.66	3.07	8.22	9.95	4.4	5.89	5.25	8.46
Agency 6	13.17	11.49	15.79	7.38	6.80	10.79	5.38	0.00	0.00	0.00	0.00	0.00	5.90
System	10.21	9.49	10.33	7.89	8.33	8.01	10.01	7.43	9.00	6.36	5.50	5.78	8.19

Patients with ECG prior to arrival time excluded from report.

Patient Count per Agency of STEMI Primary Impression or ECG of STEMI

Transporting Agency	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
Agency 1	8	7	8	4	6	4	_11_	6	13	6	7	4	84
Agency 2	21	19	20	22	22	19	19	19	22	10	16	25	234
Agency 3	4	1	4	2	4	4	4	7	3	3	6	3	45
Agency 4	11	16	14	19	20	19	16	16	21	24	15	21	212
Agency 5	5	4	6	6	3	7	4	4	5	3	3	4	54
Agency 6	4	4	6	8	12	10	6	10	6	1	4	2	73
Total	53	51	58	61	67	63	60	62	70	47	51	59	702