GWTG-CAD STEMI Referring Hospital

Achievement, Quality and Reporting Measures

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Achievement Measures

AHACAD1: ACE-Inhibitor or Angiotensin Receptor Blocker (ARB) for LVSD at Discharge

Percentage of ST-elevation Myocardial Infarction patients with left ventricular systolic dysfunction (EF < 40% or with moderate or severe LVSD) who are prescribed and ACEI or ARB at hospital discharge

,	1 3
Initial Patient Population	
All patients age 18 years and older with STEMI	Arrival Date/Time is not null AND Date of Birth is not null AND
	And Arrival Date/Time MINUS Date of Birth ≥18 years
	AND <u>STEMI Equivalent</u> = 1 (Yes)
Denominator	
Include:	Data Elements for Calculation

Denominator	
Include:	Data Elements for Calculation
All patients in the initial patient population who have an ejection fraction < 40% or moderate or severe systolic dysfunction	Same as initial patient population AND
	<u>LVF Assessment</u> is not null AND <u>LVF Assessment</u> < 40%

Exclusions: (Always remove from denominator)		
Patients who: • Are discharged to another acute care facility OR • Expire OR • Are discharged on comfort measures OR • Are receiving hospice services OR • Are discharged AMA OR • For whom both ACEI and ARB are contraindicated	Discharge Status = 2 (Hospice-Home) OR = 3 (Hospice-Healthcare Facility) OR = 4 (Acute Care Facility) OR = 6 (Expired) OR = 7 (Left Against Medical Advice/AMA) OR Comfort Measures Only = 1 (Yes) OR (ACEI at Discharge Prescribed = 3 [None—Contraindicated] AND	
	ARB at Discharge Prescribed = 3 [None—Contraindicated])	
Exceptions: (Remove from denominator if present and numerator is not met)		
None		
Numerator		
Patients who were prescribed an ACEI or ARB at discharge	ACEI at Discharge Prescribed = 1 (Yes) OR ARB at Discharge Prescribed = 1 (Yes)	

Note: Entresto is a combination of sacubitril, a neprilysin inhibitor (ARNI), and valsartan, an angiotensin II receptor blocker (ARB). If Entresto, or another combination drug containing an ARB, is prescribed at discharge, this would fulfill the numerator.

AHACAD11: Adult Smoking Cessation Advice/Counseling

Percentage of ST-elevation Myocardial Infarction patients who smoke cigarettes who receive smoking cessation counseling or advice during the hospital stay.

Initial Patient Population	
All patients age 18 years and older with STEMI	Arrival Date/Time is not null
	AND
	Date of Birth is not null
	AND
	Arrival Date/Time MINUS Date of Birth ≥18 years
	AND
	STEMI or STEMI Equivalent = 1 (Yes)
	<u> </u>
Denominator	
	Data Flavorate (c. Calada la Car
Include:	Data Elements for Calculation
All patients in the initial patient population with a history of smoking	Same as initial patient population
cigarettes anytime during the year prior to arrival	AND
	History of Smoking = 1 (Yes)
Exclusions: (Always remove from denominator)	
Patients who:	<u>Discharge Status</u> = 2 (Hospice-Home) OR = 3 (Hospice-Healthcare Facility)
Are discharged to another acute care facility OR	OR = 4 (Acute Care Facility) OR = 6 (Expired) OR = 7 (Left Against Medical
Expire OR	Advice/AMA)
Are discharged on comfort measures OR	OR
Are receiving hospice services OR	
Are discharged AMA	<u>Comfort Measures Only</u> = 1 (Yes)
Exceptions: (Remove from denominator if present and numerator is not met)	
None	N/A
Numerator	
	Smoking Cessation Counseling = 1 (Yes)
Patients who are given smoking cessation advice or counseling	Smoking Cessation Counseling - I (Tes)
during admission	

AHACAD22: Arrival to Thrombolytics within 30 minutes

Percent of all ST-elevation Myocardial Infarction patients who receive thrombolytic therapy within 30 minutes of arrival		
Initial Patient Population		
All patients age 18 years and older with STEMI	Data Elements for Calculation Arrival Date/Time is not null AND Date of Birth is not null AND	
	Arrival Date/Time MINUS Date of Birth ≥18 years AND STEMI or STEMI Equivalent = 1 (Yes)	
Denominator		
Include:	Data Elements for Calculation	
 All patients in the initial population: Who received thrombolytics at this hospital AND Arrival time and thrombolytic start time are not missing AND Arrival time and thrombolytic start time are not missing AND are in MMD/DD/YYYY HH:MM format AND Time from arrival to thrombolytic time is not negative (less than zero) AND Time from arrival to thrombolytic time is ≤ 12 hours. 	Same as initial patient population AND Thrombolytics = 1 (Yes) AND Arrival Date/Time is in MM/DD/YYYY HH:MM format Dose Start Date/Time is not null AND Dose Start Date/Time is in MM/DD/YYYY HH:MM format AND [Dose Start Date/Time MINUS Arrival Date/Time] ≥ 0 AND [Dose Start Date/Time MINUS Arrival Date/Time] ≤ 12 hours	
Exclusions: (Always remove from denominator)		
Patients who were transferred from another acute care facility	Transferred from other facility = 1 (Yes)	
Exceptions: (Remove from denominator if present and numerator Patients who did not receive thrombolytic therapy within 30 minutes AND had a documented non-system reason for delay.	Documented non-system reason or delay- Lytics = 1 (Yes)	

Numerator

Patients who received thrombolytics within 30 minutes of arrival

[Dose Start Date/Time MINUS Arrival Date/Time] ≤ 30 minutes

AHACAD23: Arrival to Transfer to PCI Center within 45 minutes (Door In Door Out)

Percentage of ST-elevation Myocardial Infarction patients who are transferred out for primary PCI within 45 minutes of arrival

Initial Patient Population

Data Elements for Calculation

Arrival Date/Time is not null

AND

Date of Birth is not null

AND

Arrival Date/Time MINUS Date of Birth ≥18 years

AND

STEMI or STEMI Equivalent = 1 (Yes)

Denominator

Include:	Data Elements for Calculation
All patients in the initial population:	Same as initial patient population
With STEMI or STEMI equivalent noted on first EKG	AND
• AND	
 Who were transferred out for primary PCI 	STEMI or STEMI Equivalent First Noted = 1 (First ECG)
AND	AND
Whose arrival time and discharge time are not missing	
AND are in MMD/DD/YYYY HH:MM format	<u>Discharge Status</u> = 4 (Acute Care Facility)
AND	AND
Time from arrival to discharge is not negative (less than)	
zero)	<u>Discharge Date/Time</u> is not null
AND	AND
 Time from arrival to discharge is not >24 hours. 	
	<u>Discharge Date/Time</u> is in MM/DD/YYYY HH:MM format
	AND
	Arrival Date/Time is in MM/DD/YYYY HH:MM format

	AND	
	[Discharge Date/TimeMINUS Arrival Date/Time] ≥ 0	
	AND	
	AND	
	[Discharge Date/TimeMINUS Arrival Date/Time] ≤ 24 hours	
Exclusions: (Always remove from denominator)		
Patients who receive thrombolytic therapy	Thrombolytics = 1 (Yes)	
Exceptions: (Remove from denominator if present and numerator is not met)		
Patients who were not transferred out for primary PCI within	Non-system Reason for Delay = 2 (Patient delays in providing consent) OR = 4	
45 minutes of arrival AND had a documented non-system	(Cardiac arrest and/or need for intubation) OR = 7 [Emergent placement of LV	
reason for delay in PCI	support device prior to PCI]	
3 •	OR	
	EMS Non-System Reason for Delay is not null	
Numerator		
Patients who were transferred out for primary PCI within 45	[Discharge Date/TimeMINUS Arrival Date/Time] ≤ 45 minutes	
minutes of arrival		

AHACAD13: Aspirin at Arrival

Percentage of ST-elevation Myocardial Infarction patients who receive aspirin within 24 hours before or after first medical contact (if arriving via EMS, Air, or Mobile ICU), or within 24 hours before or after hospital arrival (if arriving via privately owned vehicle)

owned vernete)	
Initial Patient Population	
All patients age 18 years and older with STEMI	Arrival Date/Time_ is not null
	AND
	Date of Birth is not null
	<u>Date of Birth</u> is not flatt
	AND
	<u>Arrival Date/Time</u> MINUS Date of Birth ≥18 years
	AND
	AND STEMI or STEMI Equivalent = 1 (Yes)
Denominator	STEMI OF STEMI Equivalent - 1 (Tes)
Include:	Data Elements for Calculation
All patients in the initial patient population	Same as Initial Patient Population
All patients in the initial patient population	Same as mitiat ratient ropatation
Exclusions: (Always remove from denominator)	
Patients who:	Patient Current Meducations = 1 (Dabigitran) OR = 2 (Rivaroxaban) OR = 3
Were on warfarin, dabigatran, rivaroxaban or apixaban at	(Apixaban) OR = 4 (Warfarin)
home OR • Are discharged to another acute care facility OR	OR
 Are discharged to another acute care facility OR Are discharged on the day of or the day after arrival OR 	Transferred from Outside Facility = 1 (Yes)
Are discharged on the day of the day after arrival or Are discharged on comfort measures OR	OR
Are discharged AMA OR	
Died on the day of or the day after arrival OR	Discharge Status = 7 (Left Against Medical Advice/AMA)
For whom aspirin is contraindicated	OR
	[MM/DD/YYYY of Discharge Date/Time= MM/DD/YYYY of Arrival Date/Time]
	OR
	[(MM/DD/YYYY of Discharge Date/Time= MM/DD/YYYY of Arrival Date/Time
	+1]
	OR
	[Discharge Status = 6 (Expired)

	AND (MM/DD/YYYY of Discharge Date/Time= MM/DD/YYYY of Arrival Date/Time OR (MM/DD/YYYY of Discharge Date/Time) = MM/DD/YYYY of Arrival Date/Time + 1)] OR Comfort Measures Only = 1 (Yes) OR
	Aspirin within 24 Hours of Arrival = 3 (Contraindicated)
Exceptions: (Remove from denominator if present and numerator	r is not met)
 Patients who were transferred from another acute care facility Patient currently enrolled in a clinical trial precluding the use 	Discharge Status = 4 (Acute Care Facility) OR
of aspirin in its protocol	(Enrolled in Clinical Trial During Hospitalization = 1 [Yes] AND
	Type of Clinical Trial = 1 [Precluding the use of aspirin in its protocol])
Numerator	
Patients who received aspirin within 24 hours of first medical contact	Aspirin within 24 Hours of Arrival = 1 (Yes)

AHACAD3:Aspirin at Discharge	
Percentage of ST-elevation Myocardial Infarction patients	proceribed aspirin at discharge
	prescribed aspirin at aischarge
Initial Patient Population	
All patients age 18 years and older with STEMI	Arrival Date/Time is not null AND
	<u>Date of Birth</u> is not null
	AND
	Arrival Date/Time MINUS Date of Birth ≥18 years
	AND
	STEMI or STEMI Equivalent = 1 (Yes)
Denominator	
Include:	Data Elements for Calculation
All patients in the initial patient population	Same as Initial Patient Population
Exclusions: (Always remove from denominator)	
 Patients who: Are discharged to another acute care facility OR Expire OR Are discharged on comfort measures OR Are receiving hospice services OR Are discharged AMA OR Are prescribed warfarin, dabigatran, rivaroxaban or apixaban at discharge OR For whom aspirin is contraindicated 	Anticoagulation at Discharge: Medication = 1 (Coumadin (warfarin) OR = 3 (Dabigitran) OR = 10 (Rivaroxaban) OR = 7 (Apixaban) OR Discharge Status = 2 (Hospice-Home) OR = 3 (Hospice-Healthcare Facility) OR = 4 (Acute Care Facility) OR = 6 (Expired) OR = 7 (Left Against Medical Advice/AMA) OR Comfort Measures Only = 1 (Yes) OR
	<u>Aspirin at Discharge: Prescribed</u> = 3 [None—Contraindicated]
Exceptions: (Remove from denominator if present and numerator is not met)	
Patient currently enrolled in a clinical trial precluding the use of aspirin in its protocol	Enrolled in Clinical Trial During Hospitalization = 1 [Yes] AND
	Type of Clinical Trial = 1[Precluding the use of aspirin in its protocol]
Numerator	
Patients who are prescribed aspirin at discharge	Aspirin at Discharge: Prescribed = 1 (Yes)



AHACAD4:Beta-Blocker at Discharge Percentage of ST-elevation Myocardial Infarction patients prescribed a beta blocker at hospital discharge Initial Patient Population All patients age 18 years and older with STEMI Arrival Date/Time is not null AND Date of Birth is not null AND <u>Arrival Date/Time</u> MINUS Date of Birth ≥18 years AND STEMI or STEMI Equivalent = 1 (Yes) Denominator Include: Data Elements for Calculation Same as initial patient population All patients in the initial patient population Exclusions: (Always remove from denominator) Discharge Status = 2 (Hospice-Home) OR = 3 (Hospice-Healthcare Facility) Patients who: • Are discharged to another acute care facility OR OR = 4 (Acute Care Facility) OR = 6 (Expired) OR = 7 (Left Against Medical Expire OR Advice/AMA) • Are discharged on comfort measures OR OR • Are receiving hospice services OR • Are discharged AMA OR Comfort Measures Only = 1 (Yes) • For whom beta-blockers are contraindicated Beta-blocker at Discharge Prescribed = 3 [None—Contraindicated]

Exceptions: (Remove from denominator if present and numerator is not met)

None N/A

Numerator

Patients who were prescribed a beta-blocker at discharge

Beta-blocker at Discharge Prescribed = 1 (Yes)

AHACAD24: ECG within 10 minutes of Arrival

Percentage of ST-elevation Myocardial Infarction patients who received an ECG within 10 minutes of arrival

Initial Patient Population	
All patients age 18 years and older with STEMI	Data Elements for Calculation
	Arrival Date/Time is not null
	AND
	<u>Date of Birth</u> is not null
	AND
	Arrival Date/Time MINUS Date of Birth ≥18 years
	AND
	STEMI or STEMI Equivalent = 1 (Yes)
Denominator	
Include:	Data Elements for Calculation
All patients in the initial population whose:	Same as initial patient population
Arrival time and ECG time are not missing AND are in	AND
MMD/DD/YYYY HH:MM format	Arrival Date/Time is not null
 Time from arrival to ECG time is not negative (less than zero) 	AND
AND	First FCC Data/Time is not mull
Time from arrival to ECG is ≤ 12 hours	First ECG Date/Time is not null AND
	Arrival Date/Time is in MM/DD/YYYY HH:MM format
	AND
	First ECG Date/Time is in MM/DD/YYYY HH:MM format AND
	(<u>First ECG Date/Time</u> MINUS <u>Arrival Date/Time</u>) ≥ 0 AND ≤ 12 hours
Exclusions: (Always remove from denominator)	
Patients who were transferred from another acute care	<u>Transferred from other facility</u> = 1 (Yes)
facility • Patients with ECG performed prior to hospital arrival	OR
rations with ECO performed prior to hospital arrival	First ECG Obtained = 1 (Prior to hospital arrival)

Exceptions: (Remove from denominator if present and numerator is not met)	
Patients who did not receive ECG within 10 minutes of arrival AND First ECG Non-System Reason for Delay = 1 (Yes)	
had a documented non-system reason for delay in the first ECG.	
Numerator	
Patients who received ECG within 10 minutes of arrival	<u>First ECG Date/Time</u> MINUS <u>Arrival Date/Time</u> ≤ 10 min

AHACAD7: High-Intensity Statin at Discharge Percentage of ST-elevation Myocardial Infarction patients who are prescribed a high-intensity statin at hospital discharge Initial Patient Population All patients age 18 years and older with STEMI Arrival Date/Time is not null AND Date of Birth is not null AND Arrival Date/Time MINUS Date of Birth ≥18 years

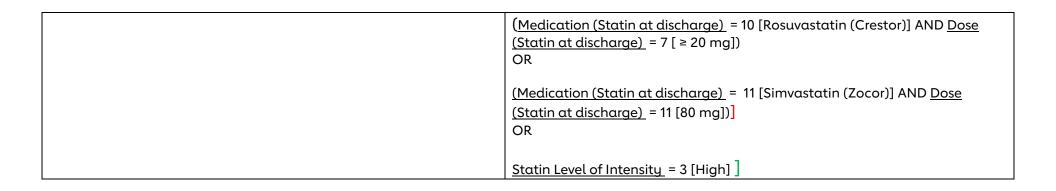
<u>STEMI or STEMI Equivalent</u> = 1 (Yes)	

	<u> 31LMI OI 31LMI Equivaterit</u> = 1 (Tes)	
Denominator		
Include:	Data Elements for Calculation	
Same as initial patient population	Same as Initial Patient Population	
Exclusions: (Always remove from denominator)		
Patients who: Are discharged AMA OR Expire during hospitalization OR Are discharged to hospice or are on comfort measures OR Are transferred to another acute care facility OR	<u>Discharge Status</u> = 2 (Hospice-Home) OR = 3 (Hospice-Healthcare Facility) OR = 4 (Acute Care Facility) OR = 6 (Expired) OR = 7 (Left Against Medical Advice/AMA) OR <u>Comfort Measures Only</u> = 1 (Yes)	
Exceptions: (Remove from denominator if present and numerator is not met)		
 Documentation of a medical reason for not prescribing a high-intensity statin (e.g., allergy, intolerance or contraindications to high-intensity statin(s), risk of interaction between drugs, or other medical reasons) OR Documentation of a patient reason for not prescribing a statin (e.g., patient refusal) OR Documentation of prescription of a moderate-intensity statin 	Non-System Reason for not Prescribing High-Intensity Statin (nsysrsnstat) = 1 [Yes, Medical Reason] OR = 2 [Yes, Patient Reason] OR [(Arrival Date/Time MINUS Date of Birth) > 75 years AND	
 For patients > 75 years of age OR Patient currently enrolled in a clinical trial related to lipid-lowering therapy 	Statin at Discharge Prescribed = 1 (Yes) AND	

AND

[(Medication (Statin at discharge) = 1 [Amlodipine + Atorvastatin (Caduet)] AND Dose (Statin at discharge) = 12 [2.5/10 mg] or = 13 [2.5/20 mg] or = 15 [5/10 mg] or = 16 [5/20 mg] or = 19 [10/10 mg] or = 20 [10/20 mg]) OR (Medication (Statin at discharge) = 2 [Atorvastatin (Lipitor]) AND Dose (Statin at discharge) = 5[10 mg] or = 6[20 mg]) OR (Medication (Statin at discharge) = 3 [Ezetemibe + Simvastatin (Vytorin)] AND Dose (Statin at discharge) = 20 [10/20 mg] or = 21 [10/40 mg]) OR (Medication (Statin at discharge) = 4 [Fluvastatin (Lescol)] AND Dose (Statin at discharge) = 11 [80mg]) OR (Medication (Statin at discharge) = 13 [Fluvastatin XL (Lescol XL)] AND Dose (Statin at discharge) = 11 [80mg]) (Medication (Statin at discharge) = 6 [Lovastatin Extended Release (Aldoprev)] AND Dose (Statin at discharge) = 8 [40 mg] OR = 10 [60 mg]) OR (Medication (Statin at discharge) = 5 = [Lovastatin (Mevacor)] AND Dose (Statin at discharge) = 8 [40 mg]) OR (Medication (Statin at discharge) = 7 [Lovastatin + Niacin (Advicor)] AND Dose (Statin at discharge) = 27 [40/1000 mg]) OR (Medication (Statin at discharge) = 8 [Pitavastatin (Livalo)] AND Dose (Statin at discharge) = 2[2 mg] OR = 3[4 mg]OR (Medication (Statin at discharge) = 9 [Pravastatin (Pravachol)] AND Dose (Statin at discharge) = 8 [40 mg] OR = 11 [80 mg]) OR

(Medication (Statin at discharge) = 10 [Rosuvastatin (Crestor)] AND Dose (Statin at discharge) = 4[5 mg] OR = 5[10 mg]OR (Medication (Statin at discharge) = 11 [Simvastatin (Zocor)] AND Dose (Statin at discharge) = 6 [20 mg] OR = 8 [40 mg]) OR (Medication (Statin at discharge) = 12 [Simvastatin + Niacin (Simcor] AND Dose (Statin at discharge) = 23 [20/500 mg] OR = 24 [20/750 mg] OR = 25[20/1000] OR = 26 [40/500 mg] OR = 27 [40/1000] OR = 28 [40/2000 mg] (2 X 20/1000)]) OR Statin Level of Intensity = 2 [Moderate] OR Enrolled in Clinical Trial During Hospitalization = 1 (Yes) AND = 5 [Related to lipid-lowering therapy]] **Numerator** Patients who were prescribed a high-intensity statin at discharge Statin at Discharge Prescribed = 1 (Yes) AND [(Medication (Statin at discharge) = 1 [Amlodipine + Atorvastatin (Caduet)] AND Dose (Statin at discharge) = 14 [2.5/40 mg] OR = 17 [5/40 mg]OR = 18 [5/80 mg] OR = 21 [10/40 mg]) OR (Medication (Statin at discharge) = 2 [Atorvastatin (Lipitor)] AND Dose (Statin at discharge) = 9 [≥ 40 mg]) OR (Medication (Statin at discharge) = 3 [Ezetimibe + Simvastatin (Vytorin)] AND Dose (Statin at discharge) = 22 [10/80 mg]) OR



Composite Measure

AHACAD27: Overall Mission Lifeline® Composite Score—STEMI Referring Hospital

Proportion of performance opportunities that were met among eligible opportunities for all 9 individual achievement measures.

Initial Patient Population	
All patients age 18 years and older with STEMI	Arrival Date/Time is not null AND
	<u>Date of Birth</u> is not null
	AND <u>Arrival Date/Time</u> MINUS Date of Birth ≥18 years
	AND STEMI or STEMI Equivalent = 1 (Yes)

Denominator	
Include:	Data Elements for Calculation
All patients with STEMI	Sum of denominator counts for each of the 9 measures.
Count of all measure opportunities [i.e., count of all denominators (i.e., all eligible STEMI patients) for all of the 9 component measures]	Data elements as per the individual measures

Measures include:
1. ACE-Inhibitor or Angiotensin Receptor Blocker (ARB) for LVSD at
Discharge
2. Adult Smoking Cessation Advice
3. Arrival to Thrombolytics within 30 minutes
4. Arrival to Transfer to PCI Center within 45 minutes (Door In Door
Out)
5. Aspirin at Arrival
6. Aspirin at Discharge
7. Beta-Blocker at Discharge
8. ECG within 10 minutes of Arrival

9. High-Intensity Statin at Discharge

Exclusions: (Always remove from denominator)	
Per the individual component measures	Per the individual component measures
Exceptions: (Remove from denominator if present and numerator is not met)	
Per the individual component measures	Per the individual component measures
Numerator	
Count of all measure opportunities that were met (i.e., count of all patients in the numerators for all of the 9 component measures	Sum of the numerator counts for each of the 9 component measures

Quality Measure

AHACAD25: Arrival to Transfer to PCI Center within 30 minutes (Plus Measure)

Percentage of ST-elevation Myocardial Infarction patients who are transferred out for primary PCI within 30 minutes of arrival

Initial Patient Population	
All patients age 18 years and older with STEMI	Arrival Date/Time is not null
	AND
	<u>Date of Birth</u> is not null
	AND
	Arrival Date/Time MINUS Date of Birth ≥18 years
	AND
	STEMI or STEMI Equivalent = 1 (Yes)
Denominator	

Denominator	
Include:	Data Elements for Calculation
 All patients in the initial patient population With STEMI or STEMI equivalent noted on first EKG AND Who were transferred out for primary PCI AND Whose arrival time and discharge time are not missing AND are in MMD/DD/YYYY HH:MM format 	Same as initial patient population AND STEMI or STEMI Equivalent First Noted = 1 (First ECG) AND Discharge Status = 4 (Acute Care Facility)
 AND Time from arrival to discharge is not negative (less than zero) AND 	AND Discharge Date/Timeis not null AND
Time from arrival to discharge is not >24 hours.	Discharge Date/Time is in MM/DD/YYYY HH:MM format AND Arrival Date/Time is in MM/DD/YYYY HH:MM format AND [Discharge Date/TimeMINUS Arrival Date/Time] ≥ 0

	AND	
	[<u>Discharge Date/Time</u> MINUS <u>Arrival Date/Time</u>] ≤ 24 hours	
Exclusions: (Always remove from denominator)		
Patients who receive thrombolytic therapy	<u>Thrombolytics</u> = 1 (Yes)	
Exceptions: (Remove from denominator if present and numerator is not met)		
Patients who were not transferred out for primary PCI within 30 minutes of arrival AND had a documented non-system reason for delay in PCI	Non-system Reason for Delay = 2 (Patient delays in providing consent) OR = 4 (Cardiac arrest and/or need for intubation) OR = 7 [Emergent placement of LV support device prior to PCI] OR	
	EMS Non-System Reason for Delay is not null	
Numerator		
Patients who are transferred out for primary PCI within 30 minutes of arrival	[<u>Discharge Date/Time</u> MINUS <u>Arrival Date/Time</u>] ≤ 30 minutes	

Reporting Measures

AHACAD5: Cardiac Rehabilitation Patient Referral from an Inpatient Setting

Percentage of patients hospitalized with ST elevation Myocardial Infarction who were referred to an outpatient cardiac rehabilitation (CR) program during their hospital stay

renabilitation (CR) program during their nospital stay		
Initial Patient Population		
All patients age 18 years and older with STEMI	Arrival Date/Time is not null AND	
	Date of Birth is not null AND	
	Arrival Date/Time MINUS Date of Birth ≥18 years AND	
	STEMI or STEMI Equivalent = 1(Yes)	
Denominator		
Include:	Data Elements for Calculation	
All patients in the initial patient population	Same as initial patient population	
Exclusions: (Always remove from denominator)		
 Patients who are comfort measures only Patients who are discharged/transferred to hospice, Patients who are discharged/transferred to another acute care facility, Patients who expire Patients who leave against medical advice 	Comfort Measures Only = 1 (Yes) OR Discharge Status = 2 (Hospice-Home) OR = 3 (Hospice-Healthcare Facility) OR = 4 (Acute Care Facility) OR = 6 (Expired) OR = 7 (Left Against Medical Advice/AMA)	
Exceptions: (Remove from denominator if present and numerator is not met)		
Patients who were not referred to an early outpatient cardiac rehabilitation (CR) program prior to discharge AND Have a documented medical, patient-oriented or healthcare system	Patient Referred to Cardiac Rehab) = 3 (No-Medical Reason) OR = 4 (No-Patient-Oriented Reason) OR = 5 (No-Healthcare System Reason)	
reason why a referral to cardiac rehabilitation was not made		
Numerator		
Patients who are referred* to an outpatient CR program prior to hospital discharge OR Who refused referral to an outpatient CR program	<u>Patient Referred to Cardiac Rehab</u>) = 1 (Yes)	

- *Referral is defined as:
- 1. Documented communication between the healthcare provider and the patient to recommend an outpatient CR program
- 2A. Official referral order is sent to outpatient CR program OR 2B. Documentation of patient refusal to justify why patient information was not sent to the CR program

NEWAHACAD19:Health-Related Social Needs Assessment

Percentage of ST-elevation Myocardial Infarction patients discharged from your facility that had documentation of a standardized health-related social needs form or assessment completed during admission.

standardized fleattif- fetated social fleeds form of assessifie	The completed during durinssion.
Initial Patient Population	
All patients age 18 years and older with STEMI	Arrival Date/Time is not null
	AND
	Date of Birth is not null AND
	AND
	Arrival Date/Time MINUS Date of Birth ≥18 years
	AND
	STEMI or STEMI Equivalent = 1 [Yes]
Denominator	
Include:	Data Elements for Calculation
All patients in the initial patient population	Same as initial patient population
Exclusions: (Always remove from denominator)	
Patients who are discharged to hospice	<u>Discharge Status</u> = 2 [Hospice-Home] OR = 3 [Hospice-Healthcare Facility]
Patients who are transferred to another acute care facility	OR = 4 [Acute Care Facility] OR = 5 [Other Health Care Facility] OR = 6
Patients who are discharged/transferred to other health care	[Expired] OR = 7 [Left Against Medical Advice/AMA]
facility	
Patients who expire Patients who leave against modical advice	
Patients who leave against medical advice	
Exceptions: (Remove from denominator if present and numerator	
None	N/A
Numerator	
Patients who had a validated health-related social needs	During this admission, was a standardized health related social needs form or
assessment completed during the admission.	<u>assessment completed?</u> = 1 [Yes]

AHACAD26: STEMI-positive ECG to Interfacility Transport Requested within 10 minutes

Percentage of ST-elevation Myocardial Infarction patients whose time from first STEMI-positive 12-lead ECG to Interfacility transport requested is less than or equal to 10 minutes

Initial Patient Population		
All patients age 18 years and older with STEMI	Arrival Date/Time is not null	
	AND	
	Date of Birth is not null	
	AND	
	<u>Arrival Date/Time</u> MINUS Date of Birth ≥18 years	
	AND	
	<u>STEMI or STEMI Equivalent</u> = 1 (Yes)	
Denominator		
Include:	Data Elements for Calculation	
All patients in the initial patient population:	Same as Initial Patient Population	
Who were transferred to another acute care facility AND	AND	
Whose first 12-lead ECG was performed after arrival at the	Not admitted, transferred out another acute care facility is not null	
Referring Hospital	AND	
	1st ECG obtained = 2 (After hospital arrival)	
Exclusions: (Always remove from denominator)		
 Transport requested time is missing or is not in MM/DD/YYYY HH:MM format 	Transport Requested is null OR is not in MMDDYYYY HHMM format OR	
 STEMI first noted on first ECG and first ECG time is missing or 		
not in MM/DD/YYYY format OR	[STEMI or STEMI Equivalent First Noted = 1 (First ECG)	
 STEMI first noted on subsequent ECG and subsequent ECG time is missing or not in MM/DD/YYYY OR 	AND	
 Calculated time from first STEMI-positive ECG to transport 	(<u>First ECG date/time</u> is null OR is not in MM/DD/YYYY HH:MM format	
requested is negative.	OR	
	<u>Transport Requested</u> < <u>First ECG date/time</u>)]	
	OR	

	[STEMI or STEMI Equivalent First Noted = 2 (Subsequent ECG) AND
	(<u>Date/Time of positive ECG</u> is null OR is not in MM/DD/YYYY HH:MM format OR
	<u>Transport Requested</u> < <u>Date/Time of positive ECG</u>)]
Exceptions: (Remove from denominator if present and numerator is not met)	
Patients who received thrombolytics at the Referring Hospital	<u>Thrombolytics</u> = 1 (Yes)
Numerator	
Patients for whom interfacility transport was requested within 10 minutes of first STEMI-positive ECG	[STEMI or STEMI Equivalent First Noted = 1 (First ECG) AND
	<u>Transport Requested</u> MINUS <u>First ECG date/time</u> ≤ 10 minutes] OR
	[STEMI or STEMI Equivalent First Noted = 2 (Subsequent ECG) AND
	<u>Transport Requested</u> MINUS <u>Date/Time of positive ECG</u> ≤ 10 minutes]