

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

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 who have an ejection fraction < 40% or moderate or severe systolic dysfunction

Same as initial patient population
AND

LVF Assessment is not null AND LVF Assessment < 40%

Exclusions: (Always remove from denominator)	
Patients who: <ul style="list-style-type: none"> • 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 	<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) OR (<u>ACEI at Discharge Prescribed</u> = 3 [None—Contraindicated] AND <u>ARB at Discharge Prescribed</u> = 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	<u>ACEI at Discharge Prescribed</u> = 1 (Yes) OR <u>ARB at Discharge Prescribed</u> = 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 \geq 18 years

AND

STEMI or STEMI Equivalent = 1 (Yes)

Denominator

Include:

Data Elements for Calculation

All patients in the initial patient population with a history of smoking cigarettes anytime during the year prior to arrival

Same as initial patient population
AND

History of Smoking = 1 (Yes)

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

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)

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

None

N/A

Numerator

Patients who are given smoking cessation advice or counseling during admission

Smoking Cessation Counseling = 1 (Yes)

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 is not met)

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

$[\text{Dose Start Date/Time} \text{ MINUS } \text{Arrival Date/Time}] \leq 30 \text{ minutes}$

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

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:

- 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
- AND
- Time from arrival to discharge is not negative (less than zero)
- AND
- Time from arrival to discharge is not >24 hours.

Same as initial patient population

AND

STEMI or STEMI Equivalent First Noted = 1 (First ECG)

AND

Discharge Status = 4 (Acute Care Facility)

AND

Discharge Date/Time is not null

AND

Discharge Date/Time is in MM/DD/YYYY HH:MM format

AND

Arrival Date/Time is in MM/DD/YYYY HH:MM format

	<p>AND</p> <p>$[\text{Discharge Date/Time} - \text{Arrival Date/Time}] \geq 0$</p> <p>AND</p> <p>$[\text{Discharge Date/Time} - \text{Arrival Date/Time}] \leq 24 \text{ hours}$</p>
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 45 minutes of arrival AND had a documented non-system reason for delay in PCI	<p><u>Non-system Reason for Delay</u> = 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]</p> <p>OR</p> <p><u>EMS Non-System Reason for Delay</u> is not null</p>
Numerator	
Patients who were transferred out for primary PCI within 45 minutes of arrival	$[\text{Discharge Date/Time} - \text{Arrival Date/Time}] \leq 45 \text{ minutes}$

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)

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 \geq 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:

- Were on warfarin, dabigatran, rivaroxaban or apixaban at home OR
- Are discharged to another acute care facility OR
- Are discharged on the day of or the day after arrival OR
- Are discharged on comfort measures OR
- Are discharged AMA OR
- Died on the day of or the day after arrival OR
- For whom aspirin is contraindicated

Patient Current Medications = 1 (Dabigatran) OR = 2 (Rivaroxaban) OR = 3 (Apixaban) OR = 4 (Warfarin)
OR

Transferred from Outside Facility = 1 (Yes)
OR

Discharge Status = 7 (Left Against Medical Advice/AMA)
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)

	<p>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</p> <p>Comfort Measures Only = 1 (Yes) OR</p> <p>Aspirin within 24 Hours of Arrival = 3 (Contraindicated)</p>
<p>Exceptions: (Remove from denominator if present and numerator is not met)</p>	
<ul style="list-style-type: none"> • Patients who were transferred from another acute care facility • Patient currently enrolled in a clinical trial precluding the use of aspirin in its protocol 	<p>Discharge Status = 4 (Acute Care Facility) OR</p> <p>(<u>Enrolled in Clinical Trial During Hospitalization</u> = 1 [Yes] AND <u>Type of Clinical Trial</u> = 1 [Precluding the use of aspirin in its protocol])</p>
<p>Numerator</p>	
<p>Patients who received aspirin within 24 hours of first medical contact</p>	<p>Aspirin within 24 Hours of Arrival = 1 (Yes)</p>

AHACAD3:Aspirin at Discharge

Percentage of ST-elevation Myocardial Infarction patients prescribed aspirin at 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 \geq 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 (Dabigatran) 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

Aspirin at Discharge: Prescribed = 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

Arrival Date/Time MINUS Date of Birth \geq 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
- For whom beta-blockers 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

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

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 whose:

- Arrival time and ECG time are not missing AND are in MMD/DD/YYYY HH:MM format
- Time from arrival to ECG time is not negative (less than zero)
- AND
- Time from arrival to ECG is ≤ 12 hours

Same as initial patient population

AND

Arrival Date/Time is not null

AND

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

(First ECG Date/Time MINUS Arrival Date/Time) ≥ 0

AND ≤ 12 hours

Exclusions: (Always remove from denominator)

- Patients who were transferred from another acute care facility
- Patients with ECG performed prior to hospital arrival

Transferred from other facility = 1 (Yes)

OR

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 had a documented non-system reason for delay in the first ECG.	<u>First ECG Non-System Reason for Delay</u> = 1 (Yes)
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

AND
STEMI or STEMI Equivalent = 1 (Yes)

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
-

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)

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 for patients > 75 years of age OR
- Patient currently enrolled in a clinical trial related to lipid-lowering therapy

Non-System Reason for not Prescribing High-Intensity Statin (nsysrnstat) = 1
[Yes, Medical Reason] OR = 2 [Yes, Patient Reason]
OR

[(Arrival Date/Time MINUS Date of Birth) > 75 years
AND

Statin at Discharge Prescribed = 1 (Yes)
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

	<p><u>(Medication (Statin at discharge) = 10 [Rosuvastatin (Crestor)] AND Dose (Statin at discharge) = 4 [5 mg] OR = 5 [10 mg])</u> OR</p> <p><u>(Medication (Statin at discharge) = 11 [Simvastatin (Zocor)] AND Dose (Statin at discharge) = 6 [20 mg] OR = 8 [40 mg])</u> OR</p> <p><u>(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)])</u> OR</p> <p><u>Statin Level of Intensity = 2 [Moderate]]]</u> OR</p> <p><u>[Enrolled in Clinical Trial During Hospitalization = 1 (Yes)</u> AND</p> <p><u>_ = 5 [Related to lipid-lowering therapy]]</u></p>
<p>Numerator Patients who were prescribed a high-intensity statin at discharge</p>	<p><u>Statin at Discharge Prescribed = 1 (Yes)</u> AND</p> <p><u>[[(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])</u> OR</p> <p><u>(Medication (Statin at discharge) = 2 [Atorvastatin (Lipitor)] AND Dose (Statin at discharge) = 9 [≥ 40 mg])</u> OR</p> <p><u>(Medication (Statin at discharge) = 3 [Ezetimibe + Simvastatin (Vytorin)] AND Dose (Statin at discharge) = 22 [10/80 mg])</u> OR</p>

	<p>(<u>Medication (Statin at discharge)</u> = 10 [Rosuvastatin (Crestor)] AND <u>Dose (Statin at discharge)</u> = 7 [≥ 20 mg])</p> <p>OR</p> <p>(<u>Medication (Statin at discharge)</u> = 11 [Simvastatin (Zocor)] AND <u>Dose (Statin at discharge)</u> = 11 [80 mg])</p> <p>OR</p> <p><u>Statin Level of Intensity</u> = 3 [High]</p>
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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	<p><u>Arrival Date/Time</u> is not null</p> <p>AND</p> <p><u>Date of Birth</u> is not null</p> <p>AND</p> <p><u>Arrival Date/Time</u> MINUS Date of Birth ≥18 years</p> <p>AND</p> <p><u>STEMI or STEMI Equivalent</u> = 1 (Yes)</p>
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

Date of Birth is not null

AND

Arrival Date/Time MINUS Date of Birth \geq 18 years

AND

STEMI or STEMI Equivalent = 1 (Yes)

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
AND
- Time from arrival to discharge is not negative (less than zero)
AND
- Time from arrival to discharge is not >24 hours.

Same as initial patient population
AND

STEMI or STEMI Equivalent First Noted = 1 (First ECG)
AND

Discharge Status = 4 (Acute Care Facility)
AND

Discharge Date/Time is not null
AND

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/Time MINUS Arrival Date/Time] \geq 0

	AND [Discharge Date/TimeMINUS Arrival Date/Time] ≤ 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	<u>Non-system Reason for Delay</u> = 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	[Discharge Date/TimeMINUS Arrival Date/Time] ≤ 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

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 \geq 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 reason why a referral to cardiac rehabilitation was not made

Patient Referred to Cardiac Rehab) = 3 (No-Medical Reason)
OR = 4 (No-Patient-Oriented Reason)
OR = 5 (No-Healthcare System Reason)

Numerator

Patients who are referred* to an outpatient CR program prior to hospital discharge
OR
Who refused referral to an outpatient CR program

Patient Referred to Cardiac Rehab) = 1 (Yes)

*Referral is defined as:

1. Documented communication between the healthcare provider and the patient to recommend an outpatient CR program

AND

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

****NEW** AHACAD19: 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.

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 discharged to hospice
- Patients who are transferred to another acute care facility
- Patients who are discharged/transferred to other health care facility
- Patients who expire
- Patients who leave against medical advice

Discharge Status = 2 [Hospice-Home] OR = 3 [Hospice-Healthcare Facility]
OR = 4 [Acute Care Facility] OR = 5 [Other Health Care Facility] OR = 6
[Expired] OR = 7 [Left Against Medical Advice/AMA]

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

None

N/A

Numerator

Patients who had a validated health-related social needs assessment completed during the admission.

During this admission, was a standardized health related social needs form or assessment completed? = 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

Arrival Date/Time MINUS Date of Birth \geq 18 years

AND

STEMI or STEMI Equivalent = 1 (Yes)

Denominator

Include:

Data Elements for Calculation

All patients in the initial patient population:

- Who were transferred to another acute care facility
- AND
- Whose first 12-lead ECG was performed after arrival at the Referring Hospital

Same as Initial Patient Population

AND

Not admitted, transferred out another acute care facility is not null

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
- STEMI first noted on first ECG and first ECG time is missing or not in MM/DD/YYYY format OR
- STEMI first noted on subsequent ECG and subsequent ECG time is missing or not in MM/DD/YYYY OR
- Calculated time from first STEMI-positive ECG to transport requested is negative.

Transport Requested is null OR is not in MMDDYYYY HHMM format
OR

[STEMI or STEMI Equivalent First Noted = 1 (First ECG)

AND

(First ECG date/time is null OR is not in MM/DD/YYYY HH:MM format
OR

Transport Requested < First ECG date/time)]

OR

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