GWTG-CAD Case Record Form (CRF)

February 2023

Legend: Yellow Highlight = Changes since last version of CRF

Patient ID:						
STEMI Band ID:						
STEMI Band Not Document	ed:					
				DEMOGRAPHICS TAB		
Sex: O Male	0 Female	0	Unknown			
Patient Gender Identity:		FemFemMaleGenAdd	 Female Female-to-Male (FTM)/Transgender Male/Trans Man Male-to-Female (MTF)/Transgender Female/Trans Woman Genderqueer, Neither Exclusively Male nor Female Additional Gender Category or Other 			
Other Patient Gend	er Identity					
Patient-Identified Sexual O	rientation:			 Straight or heterosexual Lesbian or gay Bisexual Queer, pansexual, and/or questioning Something else; please specify Don't know Declined to answer 		
Other Patient-Ident	ified Sexual Orienta	tion:				
Date of Birth:	//					
Age:	(auto cald	culated)				
Patient Zip Code:						
Payment Source:	 □ Medicare □ Medicare-Privat □ Medicaid □ Medicaid - Priva □ Private/HMO/PP 	ite/HMO/		□ VA/CHAMPVA/Tricare □ Self-Pay/No Insurance □ Indian Health Services □ Other/Not Documented/UTD		
Race and Ethnicity	· · · · ·	•				
Race:	□ American Indian □ Black or African □ White □ Asian □ Asian Ind □ Chinese □ Filipino □ Japanese □ Korean □ Vietnam □ Other As	American dian e ese ian	ſ	□ Native Hawaiian or Pacific Islander □ Native Hawaiian □ Guamanian or Chamorro □ Samoan □ Other Pacific Islander □ UTD		
Hispanic Ethnicity:	O Yes	O No/				
lf Yes,	□ Mexican, Mexica Chicano/a □ Cuban	an Americ		□ Puerto Rican □ Another Hispanic, Latino or Spanish Origin ADMIN TAB		

NPI		
Attending Physician/Provider NPI:		
Admitting Physician:		
ED Physician:		
Cardiology Consult:		
Physician interventionalist NPI:		
Discharge Physician/Provider NPI:		
Advanced Practitioner Provider NPI:		
Other Physician:		
		ARRIVAL TAB
Arrival Date/Time:		//:
Means of transport to this facility:		 O Air O Ambulance (ground) O Private vehicle O Transfer from another acute care facility
Patient first evaluated <mark>(at this facility):</mark>		 ED Cath Lab Observation Inpatient Other (please specify)
Date/Time of ED discharge		//: Unknown
ED Disposition		 Admission Expired Home Left Against Medical Advice Transfer to Acute Care Transfer to Observation Unit
TRANSFER DATA		
Facility the patient was transferred to:		
Reason(s) for transfer from this facility:		Administrative Advanced Cardiac Care (monitoring) CABG Patient/Family Choice Post Thrombolytic care Primary PCI Other medical reason Other reason (please specify)
Mode of transport (transfer out):	0	Air O Ambulance
Inter-facility transport EMS Agency name/numb (transfer out):	er	
Transport requested Date/Time:		//: 🗆 Unknown
Was there a documented reason for delay in transfer (from this facility)?		Yes O No
Reason(s) for delay in transfer (from this <mark>facility):</mark>	s (Management of concomitant emergent/acute conditions such as cardiopulmonary arrest, respiratory failure (requiring intubation) Patient/family consent

 Travel advisory due to inclement weather Awaiting air transport* Delay in receiving hospital accepting patient* Ground transport unavailable* Other reason* (please specify) 						
ECG						
1 st ECG Date/Time:	: 🗆 Unknown					
1 st ECG obtained: O Prior to Hospital Arrival	 After First Hospital Arrival 					
Pre-hospital ECG FindingOIsolated PoOOtherOONot Docum	n <mark>ented</mark>					
ED Physician Review of Pre-hospital ECG	O NO STEMI O ND					
Was there a documented reason for delay in obtaining 1 st ECG?	Noted Noted O Yes O No					
Reason(s) for delay in obtaining 1 st ECG:	 Cardiac Arrest Need for additional PPE for suspected/ confirmed infectious disease Need for advanced airway placement (Intubation) Patient or family refused treatment ECG equipment failure* Other reason* (please specify) 					
ECG Read Date/Time						
ECG Revealed STEMI or STEMI Equivalent?	O Yes O No					
If yes, ECG revealed:	O ST Elevation O Isolated O <mark>New</mark> LBBB Posterior MI					
If yes, STEMI or STEMI equivalent first noted:	O First ECG O Subsequent ECG					
If subsequent ECG, Date/Time of positive ECG:	//:: 🗆 Unknown					
STEMI Alert Activated	O Yes O No					
Date/Time of STEMI Alert	//:□ Unknown					
O Emergency Departm O EMS STEMI Alert Activated by: O Observation O Transferring Facility O Other	ent					
Admission Date/Time://: □	Unknown					
Patient location where cardiac symptoms discovered:	 PRE-HOSPITAL TAB Not in a healthcare setting ACS Event occurred after hospital arrival (in ED/Obs/Inpatient) Another Acute care facility Chronic healthcare Facility Outpatient healthcare setting ND or Cannot be Determined 					

Symptom onset Date/Time:	//: 🗆 Unknown					
EMS Time Tracker Data						
Date/time of Initial 911 Call for Help:	// : 🗆 Unknown					
EMS Dispatch Date/Time:		// : : Unknown				
EMS arrive on scene:		// : : Unknown				
EMS First Medical Contact:		//:: Unknown				
Non-EMS First Medical Contact:		// : : Unknown				
Was there a documented reason for scene delay by	y	O Yes O No				
EMS? Reason(s) for scene delay by EMS:		 Cardiac Arrest Need for additional PPE for suspected/confirmed infectious disease Need for advanced airway placement (Intubation) Patient/family consent Access to patient (EMS Documented)* Awaiting transport* Language barrier* Mechanical issue (transport unit)* Weather* 				
EMS depart scene:		Other reason* (please specify)//: 🗆 Unknown				
Destination Pre-arrival alert or notification:		//: 🗆 Unknown				
EMS Agency name/number:						
Method of 1st notification:		O ECG O Phone O Radio O ND Transmission call				
Run/Sequence number:						
Out of Hospital Cardiac Arrest						
Cardiac Arrest prior to Arrival?		O Yes O No				
If yes, was CPR performed <mark>by a bystander</mark> ?		O Yes O No				
Return of Spontaneous Circulation (ROSC)		O Yes O No				
Date and time of ROSC		//:: □ Unknown				
If yes, was therapeutic hypothermia initiated episode of care?	during	g this O Yes O No				
Transfer Time Tracker Data						
Means of arrival at first facility:		 O Air O Ambulance (ground) O Private vehicle O Transfer from acute care facility 				
Transferring Facility:						
Mode of transport to this facility:	<mark>o A</mark>	Air O Ambulance				
Inter-facility transport EMS Agency name/number	:					
Reason(s) for transfer to this facility:	D A D C D P	Administrative Advanced Cardiac Care (monitoring) CABG Patient/Family Choice Post Thrombolytic care				

			Prim	ary PCI
				er reason (please specify)
Arrival at First hospital Date	/Time:		//_	: 🗆 Unknown
Transport Arrived Date/Time	2:		//_	: 🗆 Unknown
Transfer out Date/Time:			//_	: 🗆 Unknown
Was there a documented re transfer (to this facility)?	<mark>ason for delay in</mark>	0	Yes	<mark>O No</mark>
Reason(s) for delay i facility):		suc int Pa Tro Aw De Gro	ch as ubat tient, avel o vaitin lay ir ound	ement of concomitant emergent/acute conditions cardiopulmonary arrest, respiratory failure (requiring ion) (family consent dvisory due to inclement weather g air transport* n receiving hospital accepting patient* transport unavailable* eason* (please specify) CARDIAC EVALUATIONS TAB
Patient Medical History:	 Atrial Fibrillation Atrial Flutter Cancer Cerebrovascular Disease Stroke TIA Currently on Dialy Diabetes Mellitus Type 1 Type 2 ND Dyslipidemia Familial Hypercholesterole Emerging Infection Disease MERS SARS-COV (COVID-19 	emia us 7-1 7-2		Heart Failure Hypertension Peripheral Artery Disease Prior CABG If Prior CABG, Most Recent CABG Date: // □ Unknown Prior MI Prior PCI If Prior PCI, Most Recent PCI Date: // □ Unknown
History of Smoking?		0	Yes	O No
History of vaping or e-cigare months?	ette use in the past 12	_	0	Yes O No/ND
Medications Prior to Admiss	ion			
 No medications prior to Anticoagulants prior to adm Anticoagulants prior to adm O Apixaban O Dabigitran O Rivaroxaban O Warfarin O Other 	admission nission O Yes O No/N cation:			

Anti-hyperglycemic Med	ications:						
DPP-4 Inhibitor	DPP-4 Inhibitor						
GLP-1 Receptor Agonist							
Insulin							
SGLT2 Inhibitor							
🗆 Sulfonylurea 🗆 Thiazolidinedrone							
□ Other							
Anti-hypertensives prior to admi	ssion O Yes O No/	ND					
Anti-hypertensive Medico	ations:						
Alpha-blocker							
🗆 ARB 🗖 Beta-blocker							
Calcium channel block	<mark>ker</mark>						
🗖 Diuretic							
D Other							
Antiplatelet prior to admission							
Antiplatelet Medications	<mark>:</mark>						
Clopidogrel (Plavix)							
□ prasurel (Effient)							
D P2Y12 Inhibitor							
🗖 ticagrelor (Brilinta)							
Liclopidine (Ticlid)							
Cholesterol Reducer prior to adn Cholesterol Reducer Med		(ND					
Bile Acid Sequestrants							
🗖 Ezetimbe							
🗖 Fibrates							
Omega-3 Fatty Acid PCSK9 Inhibitor							
Vitals							
Heart rate documented on first r	medical contact:						
Heart rate documented - ND							
Systolic blood pressure on first m	nedical contact:						
Systolic blood pressure – ND							
Heart failure documented on first medical contact O Yes O No							
Cardiogenic shock documented on first medical contact O Yes O No							
Height (cm)	eight (cm) Weight (kg)						
leight - ND Image: March and March a							
Labs							
Positive cardiac biomarkers in the first 24 hours? O Yes O No							
Initial Troponin value Ong/mL Ong/L Oug/L Opg/ml							
Initial Troponin – ND							

Date/Time of initial troponin results:				//_	:	_ 🗆 U	Inknown	
Initial Serum Creatinine (mg/dL):								
Initial Serum Creatinine - ND								
LDL Cholesterol Value (mg/dL):			_		LDL Not	Documente	d:	
LP(a) Value:					<mark>LP(α) No</mark>	t Document	ted:	
LP(a) Unit:	<mark>0 nm</mark>	<mark>ol/L</mark>		O	mg/dl			
Risk Scores	•							
Risk-Stratification Score Documented?		 EDACS GRACE HEART SYNTA 				Docu		ratification Score ed
EDACS Score:	_			G	race Risk	Score:		
HEART Score:		<mark>Sco</mark>	NTAX ore:			TIM Sco	l Risk re	
LVF Obtained	○ W/in the la○ > 1 year ag) This Admission) W/in the last year) > 1 year ago) Planned After Discharge				LVF Assessment (%)		
Was early diagnostic cor	onary angiogr	aphy perfor	med?		O Yes O No			
Date and time of	diagnostic an	giography:			//: 🗆 Unknown			
Date and time of Documented:	diagnostic an	giography N	ot					
Reason for not pe	erforming early	y diagnostic	angiog	ngiography G Yes, medical reason Yes, patient reason Yes, system reason No Reason documented			ed	
Non-invasive cardiac stre	ess test during	<mark>this hospital</mark>	. episod	le:	O Yes	O No C	<mark>NC</mark>	
New Diagnosis During th	is Admission				I			
Diabetes Mellitus		0 Y	′es O	No/ND				
			Ba Err B	 Bacterial Infection Emerging Infectious Disease MERS SARS-COV-1 SARS-COV-2 (COVID-19) 				
Health Related Social Needs Assessment								
During this admission, was a standardized health released completed?								⊃Yes ○No/ND
		completed? If Yes, identify the areas of unmet social need (select all apply)			e areas of s listed wo nt train		Situ Mer Pers Sub	ng ation/Housing ntal Health sonal Safety stance Use nsportation Barriers

		Utilities
Enrolled in Clinical Trial During I	Hospitalization	O Yes O No
If Yes, Type of Clinical Tr (select all that apply)	iαls(s) αls(luding the use of aspirin in protocol ted to reperfusion therapy lving antiplatelet therapies lving renin-angiotensin-aldosterone system inhibitor ted to lipid lowering therapy ted to AMI ted to STEMI ted to hyperglycemic control er (please specify):
		IN-HOSPITAL MEDICATIONS & VACCINATIONS TAB
Antiplatelet and Anticoagulant	Medications During	this Episode of Care
No antiplatelet or anticoagulan	<mark>t medications</mark>	
Aspirin Administration Was aspirin administered at this Was aspirin administered Was aspirin administered prior t	d within 24 hours pri	
Other Antiplatelet Medications Clopidogrel (Plavix) During this Dosage:		<mark>○ Yes ○ No ○ NC</mark> <mark>○ 75mg ○ Other ○ Unknown</mark>
Prasugrel (Effient) During this ep Dosage:	<mark>bisode</mark>	<mark>○ Yes ○ No ○ NC</mark> ○ 5mg ○ 10mg ○ Other ○ Unknown
<mark>Ticagrelor (Brilinta) During this e</mark> <mark>Dosage:</mark>	pisode	O Yes O No O NC O 90mg O Other O Unknown
Ticlopidine (Ticlid) During this er <mark>Dosage:</mark>	<mark>bisode</mark>	O Yes O No O NC O 250mg O Other O Unknown
Anticoagulant Medications Bivalirudin (Angiomax) During tl	his episode	<mark>○ Yes ○ No ○ NC</mark>
Heparin During this episode		<mark>○Yes ○No ○NC</mark>
Low Molecular Weight Heparin ((LMWH) During this (episode O Yes O No O NC
Vaccinations	1	
O Influenza Vaccination: O O O O	season Influenza vaccine w not during this hosp Documentation of Allergy/sensitivity t Vaccine not availab	patient's refusal of influenza vaccine to influenza vaccine or if medically contraindicated
COVID-19 Vaccination:	COVID-19 vaccine v	was given during this hospitalization was received prior to admission, not during this hospitalization

	 Allergy/sensitivity to COVID-19 vac Vaccine not available None of the above/Not documented 	None of the above/Not documented/UTD					
COVID-19 Vaccination Date	on //// this	there documentation that his patient was included in a O Yes O No/ND OVID-19 vaccine trial?					
		REPERFUSION TAB					
Thrombolytics <mark>administered</mark>	<mark>d at this facility</mark> ?	O Yes O No/ND					
Thrombolytics admi	inistered prior to arrival?	 Yes, by transferring facility Yes, by EMS No/ND 					
Thrombolytic Dose S	Start Date/Time:	// : 🗆 Unknown					
<mark>Thrombolytic</mark> medication:	 c tenecteplase (TNKase) c alteplase (Activase) c reteplase (Retavase) c Other (please specify) 						
	ented reason for delay in	O Yes O No					
thrombolytics?	 Active peptic ulcer Any prior intracranial hemorrhage DNR at time of treatment decision Expected DTB Intracranial neoplasm, AV malformation, or aneurysm Ischemic stroke w/in 3 months exce acute ischemic stroke within 3hrs Known bleeding diathesis No Reason documented Patient/family refusal 	 Cardiac Arrest Need for additional PPE for suspected/ confirmed infectious disease Need for advanced airway placement (Intubation) Patient/family consent Change in reperfusion strategy* Provider unable to administer thrombolytics* Other reason (please specify) Prior allergic reaction to thrombolytics Recent bleeding within 4 weeks Recent surgery/trauma Severe uncontrolled hypertension Significant close head or facial 					
Was the patient brought to the cath lab with the intention of performing PCI? PCI performed	□ Pregnancy ○ Yes ○ No ○ Yes ○ No	□ Other (please specify)					
during this episode of care?							
Reasons for not performing PCI	 Active bleeding on arrival or within hours Anatomy not suitable to primary P DNR at time of treatment decision 	Prior allergic reaction to IV contrast					

	No PCI Capability	Spontaneous reperfusion
	□ No reason documented	(documented by cath only)
	 Non-compressible vascula 	
	puncture(s)	$\Box \text{Other } (\text{please specify}) _$
PCI Time Tracker Data	puncture(s)	
Cath Lab	/ / : □ Unknor	MD
Activation:		WT1
Patient Arrival to	/ / : 🗆 Unknov	
Cath Lab:		WIT
Team Arrival to	/ / : 🗆 Unknov	ND
Cath Lab:		
Interventionalist	/// : □Unknov	NU
Arrival to Cath		
Lab:		
First PCI	/ / : □ Unknov	wn
Date/Time:		
PCI Indication	• Primary PCI for STEMI	
	 PCI for STEMI (unstable, >12 	hr from sx onset)
	 PCI for STEMI (stable, >12 h 	
	• PCI for STEMI (stable after s	
		Clafter half/reduced-dose lytic)
	O Rescue PCI for STEMI (after	
	O PCI for NSTEMI	5 /
	0 Other	
Was there a	O Yes O No	
documented		
reason for delay in		
PCI?		
<mark>Reasons for</mark>	Cardiac Arrest	
<mark>delay in</mark>	Difficult vascular access	
PCI:	D Difficulty crossing the culpr	
		suspected/confirmed infectious disease
	Need for advanced airway	
	Need for Mechanical circule	atory support prior to PCI
	Patient/family consent	<u></u>
	Other reason please specify	<u>ال</u>
CABG During This	O Yes O No	
Admission:		
		DISCHARGE TAB
In-hospital Risk Adjusted	(auto calculated)	
Mortality Score:		
Discharge Date/Time:	//:	
	O 1 – Home	0 6 – Expired
Discharge Disposition:	O 2 – Hospice-Home	O 7 – Left Against Medical Advice/AMA
	 3 – Hospice-Healthcare Fac 	
	 4 – Acute Care Facility 	Determine (UTD)
	○ 5 – Other Health Care Facil	
Comfort Measures Only?	○ Yes ○ No	f Yes, Date/Time:// ::
		🗆 Unknown
Final Clinical Diagnosis	 Confirmed AMI – STEMI 	<mark>O Angina not specified</mark>
- mac cunicat Diagnosis	 Confirmed AMI – non-STEM 	I O Chest Pain (cardiac)

uns	nfirmed AMI - S specified stable Angina	TEMI/Non-STEI	MI <mark>O Chest Pain (non</mark> specify) O Noncardiac con			
Referrals/Counseling and Follow-up						
Patient Referred to Cardiac Rehab?	 Yes No referral documented No-Medical Reason No-Patient Oriented Reason No-Healthcare System Reason 					
Smoking Cessation Counseling?	O Yes O No					
Follow-up visit scheduled?	O Yes O M	<mark>اه</mark>				
Date of first follow-up visit	//	: 🗆 Unk	nown			
Location of first follow-up vi		Home health v Office visit Telehealth Not document				
Discharge Medications						
ACEI at discharge	Prescribed	O Yes	O No	0 NC		
ARB at discharge	Prescribed	O Yes	O No	0 NC		
	Prescribed	O Yes	O No	0 NC		
	lf yes,	Dose:	 75-100 mg >100 mg Other Unknown 			
Aspirin at discharge		Frequency:	 Every Day 2 Times a day 3 Times a day 4 Times a day Other Unknown 			
	Prescribed	0 Yes	O No	O NC		
Clopidogrel at discharge	lf	Dose:	0 75mg 0 Other 0 Unknown			
	yes,	Frequency:	O Every Day O Other O Unknown			
	Prescribed	O Yes	O No	0 NC		
Prasugrel at discharge	lf	Dose:	0 5mg 0 10mg 0 Other 0 Unknown			
	yes,	Frequency:	○ Every Day○ Other○ Unknown			
	Prescribed	0 Yes	O No	0 NC		
Ticagrelor at discharge	lf yes,	Dose:	0 90mg 0 Other 0 Unknown			

			0 2 Times a da	ıy	
		Frequency:	○ Other ○ Unknown		
	Prescribed	O Yes	O No		O NC
Ticlopidine at discharge	lf	Dose:	0 250mg 0 Other 0 Unknown		
	yes,	Frequency:	 O 2 Times a do O Other O Unknown 	ıy	
	Prescribed	O Yes	0 No		0 NC
		Class:	0 Warfarin	O Direct Thrombin Inhibitor	0 Factor Xa Inhibitor
Anticoagulation at discharge	lf yes,	Medication:	0 Coumadin (warfarin)	 Dabigatran Other Direct Thrombin Inhibitor 	O Apixaban O Edoxaban O Rivaroxaban O Other Factor Xa Inhibitor
		Dose:	N/A	O 75mg O 150 mg O Other O Unknown	1 2 3 4 5
		Frequency:	N/A	O 2 Times a day O Other O Unknown	1 2 3
Beta Blocker at discharge	Prescribed	0 Yes	O No		O NC
	Prescribed	0 Yes	O No		O NC
Statin at discharge	lf yes,	Medication:	 O amlodipine + atorvastatin (Cade O atorvastatin (Lipitor) O ezetimibe + simvastatin (Vytorin O fluvastatin (Lescol) O fluvastatin (Lescol XL) O lovastatin (Mevacor) O lovastatin extended release (Alt O lovastatin + niacin (Advicor) O pitavastatin (Livalo) O pravastatin (Pravachol) O rosuvastatin (Zocor) O simvastatin + niacin (Simcor) 		orin) (Altoprev)
		Dose:	1. 2. 3. 4. 5.		
		Statin Level of Intensity:	O Low	0 Moderate	0 High
ls there a non-system reason for not prescribing	Yes, mediYes, patie	cal reason nt reason			

a high intensity statin medication?	□ No
Anti-hyperglycemic Medication Prescribed	O Yes O No O NC
Anti-hyperglycemic Class	1.
Anti-hyperglycemic Medication	1.
Was there a documented reason for not prescribing a medication with proven CVD benefit?	O Yes O No/ND
PCSK9 Inhibitor Prescribed	O Yes O No O NC
PCSK9 Medication	O alirocumab (Praluent) O evolocumab (Repatha) O inclisiran
Comments	

	TIME METRICS TAB (AUTO-POPULATED)
Symptom onset to FMC	
EMS FMC to ECG	
EMS Depart Scene to Hospital Arrival	
Arrival at this Hospital to First ECG	
Time in ED	
Arrival to Transfer Out (DIDO) (Referring Hospital)	
Arrival at First Hospital to Transfer Out	
EMS FMC to Cath Lab Activation	
Arrival to Cath Lab Activation	
EMS FMC to PCI	
Arrival at Referring Hospital to PCI	
Arrival at Receiving Hospital to PCI	