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Patient #	Patient Initial	s Date of I	Birth	Medical Record Number		
		L DD M	M YY			
Patient:						
Name:						
Address:						
				ork):		
Expected 6-month Follow	-up Date:					
Family Physician:		Ca	rdiologist/l	nternist:		
Name:		Naı	me:			
Address:		Add	dress:			
Telephone:						
Date CRF Submitted to	COR:					
Date Corrections Return (in response to QC Rep						
Date Corrections Return						

Summary of GRACE Eligibility Criteria

Basic GRACE Eligibility Criteria:

- Must have one of the Acute Coronary Syndromes as a presumptive diagnosis.
- Must be 18 years of age or over.
- The qualifying acute coronary syndrome must not have been precipitated or accompanied by a significant co-morbidity such as a motor vehicle accident, trauma, severe gastrointestinal bleeding, operation or procedure.
- Patients who are already hospitalized when they develop qualifying ACS symptoms are not eligible for enrollment in GRACE.

Early Deaths:

- Must be alive at the time of hospital presentation.
- Patients hospitalized for less than 1 day who die may be enrolled provided that the cause of death is confirmed to be due to ACS.

Transfer Patients:

- Patients transferred into or out of a registry hospital can be enrolled regardless of the time spent at the transferring hospital.
- For patients transferred out of a registry hospital, data collection for the Initial CRF will end with the transfer and indication of purpose of transfer.

Patients can be enrolled more than once:

 Patients may be re-enrolled provided that at least 6 months have passed since their prior enrollment. When a patient is re-enrolled, a new GRACE patient identification number must be assigned.

Confirmation of Eligibility

Symptoms felt to be consistent with acute cardiac ischemia within 24 hours of hospital presentation.

Plus, a minimum of 1 of the definitions for 1 (or more) of the following 4 criteria:

History of CAD

- History of MI, angina, CHF felt to be due to ischemia or resuscitated sudden cardiac death.
- History of positive stress test with/without imaging.
- History of cardiac catheterization documenting CAD.
- · History of PCI or CABG.

New Documentation of CAD

- · New positive stress test with/without imaging.
- New cardiac catheterization documenting CAD.
- New PCI or CABG.

ECG Changes

- Transient ST segment elevations of ≥ 1 mm.
- ST segment depressions of ≥ 1 mm.
- New T wave inversions of ≥ 1 mm.
- Pseudo-normalization of previously inverted T waves.
- New Q waves (1/3 the height of the R wave or ≥ 0.04 secs.).
- New R wave >S wave in lead V₁ (posterior MI).
- New LBBB.

Increase in Cardiac Enzymes

- CKMB 2x upper limit of the hospital's normal range, OR if no CKMB available, then total CPK
 2 x upper limit of the hospital's normal range.
- Positive troponin I.
- Positive troponin T.

A. ENROLLMENT

2. Where Identified

- 1 = CCU/ICU
- 2 = Cath Lab
- 3 = ER / ED
- 4 = Cardiac Unit
- 5 = General Unit
- 6 = Admit List
- 7 = Other

C. MEDICAL HISTORY

15. Smoker

- 1 = Former smoker
- 2 = Current smoker
- 9 = Status not recorded

16. Diabetes

- 1 = Diet controlled
- 2 = Oral hypoglycemics
- 3 = Insulin-dependent
- 4 = No treatment used
- 9 = Type not recorded

17. Renal Insufficiency

- 1 = No Dialysis
- 2 = Dialysis



Site ID (Required)		Pati	ent ID (Requ	ired)		
				, <u> </u>		
General Infor	mation					
Pt. Initials		Date of Birth (Re		ay mor	nth yea	ar
A. Enrollment	1					
1. Confirmation	n of Eligib	ility per <i>GRACE</i> Proto	ocol: (Fill in	all that apply)		
	_	nia and O History of	•		Qualifying ECG C	Changes
		○ New Docu	umentation c	of CAD OF	Positive Cardiac	Enzymes
2 Dumanit Tom	a. /Fill in a	oo) Oold OWar	If		lantificalO*	
2. Pursuit Type	∌: (FIII IN Or	ne) O Cold O Warr	m it wa	arm, where id	ientified?"	
B. Demograp	hics					
1. Postal Code	(Patient R	•				
2. Gender (Requ		3. Admission W	eight	4. F	leight	
O Male O	Female		Olb Okg	1		in O cm
				, L		
C. Medical Hi	story			(If Yes to 1	5 - 17, please	provide code.*)
	No Yes		No Yes		No	Yes
1. Angina	0 0	8. Family	0 0	15. Smol	ker*	○ →
2. MI	0 0	History of CAD 9. Positive	0 0	16. Diabe	etes*	> ○ →
3. CHF	0 0	Stress Test	0 0	1012100		
4. Coronary Angiogram	0 0	10. Hypertension	0 0	17. Rena		> ○ →
Diagnostic		11. Dyslipidemia	0 0		ficiency*	
for CAD		12. Peripheral	0 0	-	r Surgery C	
5. PCI	0 0	Arterial Disease	•	•	r Bleeding	
6. CABG	0 0	13. Atrial Fib	0 0		nal Cardiac C rillator (ICD)) ()
7. Valve Repair/	0 0	14. TIA/Stroke	0 0		ry of Venous) ()
Replacemen	ıt				mboembolism	
D. Presentati	on					
1. Symptom		Date		Time	3. BP	
Onset] []:[J. DF	/
(Prompting Presentation	40::	manuft ::25"	/245	our clock)	systo	lic diastolic
to Hospital	day	month year	(241)	our clock)	4 D	
2. Hospital #1 Arrival					4. Pulse	bpm
(Required if not transferred	d) day	month year	(24 h	our clock)		



not transferred)

D. PRESENTATION

6. Killip Class

- 1 = I (No CHF)
- 2 = II (Rales)
- 3 = III (Pulmonary Edema)
- 4 = IV (Cardiogenic Shock)

7. Presumptive Admission Diagnosis

- 1 = MI
- 2 = Unstable Angina
- 3 = Rule out MI or suspected ACE/ACS
- 4 = Chest Pain
- 5 = Other Cardiac
- 6 = Other



Site ID (Required)		Patient ID (Required)						
D. Presentation (c	ontinued)								
D. I Tesemation (c	ontinueu)				⊥ 10 Pooce	on for transfer:			
5. Cardiac arrest at p	oresentation? O No	O Yes 6	. Killip Cla	ss*		all that apply)			
7. Presumptive 8. Was patient transferred O No O Yes O Acute									
Admission Diagno		nother hosp			O Ca	rdiac Cath			
9. If Yes, Hospital	Date			me	O PC	I			
#2 Arrival					O CA	BG			
(Required if transferred)	day month	year	(24 ho	ur clock)	O Oth	ner			
E ECC Findings									
E. ECG Findings	Date		T	ime					
1a. Index ECG (Prompted						ex ECG done ospital setting?			
by ACS symptoms)					•				
	day month	year	(24 ho	ur clock)	O NO	O Yes			
1b. Was Index ECG a ○ No ○ Yes →	abnormal for Ischemia								
O NO O res	If Yes, note abnorma	Anterior	Inferior	Lateral					
	ST ↑ (≥1mm)	O	O	Calerai					
	ST ↓ (≥1mm)	0	0	0					
	Significant Q Waves	0							
	T Wave Inversions	0	0		O Left Bui Branch				
1c Other abnormali	ties? (Fill in all that app			•	Branon	Die Git			
O AV Block (Mob	`	• •	○ Nons	pecific ST/T	Change	○ Vtach			
O Paced Rhythm	○ Posterio	or Infarction	○ Left \	/entricular ⊢	lypertrophy	○ RBBB			
1d. Were any of the	ischemic abnormalition	es on the in	dex ECG r	new or pres	umed new?				
_	(index ECG had no isc			.o., o. p. oo	amou now.				
O Unknown	(
○ No									
○ Yes → If Yes,	note new and presume	ed new abno	ormalities b	elow.					
		Anterior	Inferior	Lateral					
	ST ↑ (≥1mm)	0	0	0					
	ST ↓ (≥1mm)	0	0	<u> </u>					
	Significant Q Waves	0	0	0	O Left Bun	dle			
	T Wave Inversions	0	0	0	Branch E	Block			
1e. Other new abnor	malities? (Fill in all tha	at apply)							
O AV Block (Mob	itz II, 3°) O Atrial Fi	b/Flutter	○ Nons	pecific ST/T	Change	O Vtach			
O Paced Rhythm	○ Posterio	or Infarction	○ Left \	/entricular H	lypertrophy	○ RBBB			





Site ID (Required)		Patient ID (Required)		
E. ECG Findings (c	continued)				
	-				
2a. Did the patient de ○ No ○ Yes	evelop ST↑ or	LBBB after the in Date	dex ECG?	Time	
UNO O les					
If Yes, s date and		y month	year	(24 hour clock)	
2b. Did the patient de	evelop any of tl	ne following after	the index E	CG? (Fill in all that a	apply)
○ Significant Q W	laves or R>S ir	n V1			
↓ If Yes, specify date and time:	day	Date month yea	r (2 ²	Time :	
○ ST Depressions	s (≥1mm)				
✓ If Yes, specify					
date and time:	∟⊥⊥⊥ ∟ day	_ _ month yea			
○ T Wave Inversi	-				
↓				:	
If Yes, specify date and time:	day	month yea	r (24	1 hour clock)	
F. Laboratory					
1. Initial Creatinine		O umol/liter O mg/dl	3. Initial V	VBC .	○ 10³/cc ○ 10 ⁹ /L
2. Peak Creatinine		O umol/liter O mg/dl			
				<24 hrs after hospital presentation	
4. Serum Cholesterol		O mmol/liter O mg/dl	0	0	0
LDL		O mmol/liter	0	0	0
HDL		O mmol/liter	0	0	0
Triglycerides		O mmol/liter	0	0	0
5. Initial Glucose		○ mmol/liter ○ mg/dl	Fasting Glucose	1 1 1 1 1 1	O mmol/liter O mg/dl



H1. CARDIAC CATH / INTERVENTIONS

Culprit Lesion Territory

- 1 = LM
- 2 = LAD
- 3 = LCX
- 4 = RCA
- 5 = Vein Bypass Graft
- 6 = Arterial Bypass Graft
- 7 = Unknown

Culprit Artery TIMI Flow

- 1 = Occluded (TIMI 0/1)
- 2 = Slow (TIMÎ 2)
- 3 = Normal (TIMÍ 3)
- 4 = Unknown



Site ID (Required) Patient II	D (Required)
F. Laboratory (continued)	
6. Cardiac Markers - Initial Values	7. Cardiac Markers - Maximum Values in 1st 24 hrs
CPK CK-MB .	CPK CK-MB .
CPK ULN ULN .	CPK ULN ULN .
Date and Time	Date and Time
day month year (24 hour clock)	day month year (24 hour clock)
Troponin OIOROT Value	Troponin OIOROT Value
ULN .	ULN .
Date and Time	Date and Time
day month year (24 hour clock)	day month year (24 hour clock)
8. Biomarkers CRP	BNP Homocysteine
O mg/dl O mg/l	O pcg/ml μmol/liter
G. Procedures	
No Yes 1. Pacemaker ○ ○ → Type: (Fill in all that or Temporary Or Permanen Or ICD	5. IABP O O
H. Cardiac Cath/Interventions	
Patient/Family Refused Procedure (Fill in all that apply))
○ Cardiac Cath ○ PCI ○ CABG	
1. Cardiac Cath O No O Yes day month	year (24 hour clock) Time Total # of Cath Procedures (during hospitalization)
Stenosis ≥ 50% in territories (Fill in all that apply) ○ LM ○ LAD ○ LCX ○ RCA ○ By	pass Graft(s)
Culprit Lesion Stenosis: % Culprit Le	sion Territory:* Culprit Artery TIMI Flow:*



H. CARDIAC CATH / INTERVENTIONS

2. PCI Type

- 1 = Primary/direct (immediate mode of reperfusion in AMI)
- 2 = Rescue (after failed thrombolysis, where failed refers to ongoing/recurrent ischemic discomfort and/or lack of ST segment elevation resolution or recurrent ST elevation)
- 3 = Early PCI for cardiogenic shock
- 4 = PCI for treatment of unstable angina
- 5 = PCI for treatment of post AMI ischemia
- 6 = Facilitated PCI (immediate PCI following successful thrombolysis, or in conjunction with thrombolysis)
- 7 = Non-emergent adjunctive PCI of non-culprit lesion (stayed)
- 8 = Other (including non-emergent elective PCI of suspected culprit lesion)

3. Type of Graft(s)

- 1 = Vein graft(s)
- 2 = Arterial graft(s)
- 3 = Both Vein and Arterial graft(s)

I. LVEF

LVEF Grade

- 1 = Normal
- 2 = Mildly Diminished
- 3 = Moderately Diminished
- 4 = Severely Diminished

LVEF How Obtained

- 1 = Ventriculogram (angiogram)
- 2 = Nuclear Imaging
- 3 = Echo



Site ID (Required) Patient ID (Required)
H. Cardiac Cath/Interventions (continued)
2. PCI O No O Yes Date Time Total # of PCI Procedures (during hospitalization)
Indicate for 1st PCI: # of Dilated Vessels # of Stents PCI Type*
 ○ Done with Brachytherapy ○ Drug Coated Stent(s) → If Yes, Number of Coated Stents
3. CABG O No O Yes # of Distal Graft(s) Type of Graft(s)*
I. LVEF
LVEF O No O Yes
J. Thrombolytics
Thrombolytics ○ No ○ Yes → If Yes, # of treatments Date of first day month year (24 hour clock) ○ Thrombolytics contraindicated
1. Name of First Thrombolytic Drug: (Fill in one from below)
○ Streptokinase ○ t-PA ○ r-PA ○ TNK-tPA ○ Other ○ Blinded Study Drug
Dose (Fill in one) ○ half ○ full
2. Thrombolytic Initiation Site (Fill in one) O Pre-hospital O In-hospital
3. Drugs administered simultaneously with thrombolytic (Fill in all that apply) O GP IIb/IIIa O LMWH O Unfractionated Heparin O Blinded Study Drug



K. ANTIPLATELETS / ANTITHROMBINS / ANTICOAGULANTS

14. IV GP IIIb/IIIa: Reason for Administration

- 1 = With PCI (started before PCI)
- 2 = Without PCI (medical treatment)
- 3 = Rescue (instituted after start of PCI. Sometimes referred to as bail-out use)



Site ID (Required) Patient ID (Required)
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K. Antiplatelets/Antithrombins/Anticoagulants (Fill in all that apply for each medication)									
	Blinded Study Drug	Chronic Use	Pre-Hospital Acute	Within 1st 24 hrs Hospital	After 1st 24 hrs Hospital	Peri-PCI	Prescribed at Discharge	Not Prescribed	
1. Aspirin (Required)	0	↓	0	0	0		↓	0	
	dosage		mg/day		do	sage		mg/day	
2. Warfarin or other Vitamin K Antagonist	0	0	0	0	0		0	0	
3. Ticlopidine	0	0	0	0	0	0	0	0	
4. Clopidogrel (Required)	0	0	0	0	0	0	0	0	
5. Unfractionated Hepari	n O		0	0	0	0		0	
6. IV Enoxaparin	0		0	0	0	0		0	
7. SQ Enoxaparin (Require	ed)	0	0	0	0	0	0	0	
8. Bivalirudin	0	0	0	0	0	0	0	0	
9. Fondaparinux	0	0	0	0	0	0	0	0	
10. Other Direct Thrombin Inhibitors	0	0	0	0	0	0	0	0	
11. Other LMW Heparin	0	0	0	0	0	0	0	0	
12. Other Antiplatelet	0	0	0	0	0	0	0	0	
13. Other Antithrombin	0	0	0	0	0	0	0	0	
14. IV GP IIb/IIIa V Reason for Administration:*			O aneous drug d Heparin	O administra O LMV		O (Fill in all	that apply)	0	





Site ID (Required)	Patient I	D (Requir	ed)			
L. Other Medications (Fill in all that a	oply for ea	ch medi	cation)			
	Blinded Study Drug	Chronic Use	Pre-Hospital Acute OR Within 1st 24 hrs Hospital	After 1st 24 hrs Hospital	Prescribed at Discharge/ Transfer	Not Prescribed
1. ACE Inhibitor	0	0	0	0	0	0
2. Amiodarone	0	0	0	0	0	0
3. Angiotensin II Receptor Blocker (AR	B) O	0	0	0	0	0
4. Beta Blocker (IV)	0		0	0		0
5. Beta Blocker (Oral)	0	0	0	0	0	0
6. Calcium Channel Blocker	0	0	0	0	0	0
7. Digoxin	0	0	0	0	0	0
8. Diuretic	0	0	0	0	0	0
9. Glucose/Insulin/Potassium (GIK)	0		0	0		0
10. Inotropic Agent (IV)	0		0	0	0	0
11. Insulin	0	0	0	0	0	0
12. Insulin Provider	0	0	0	0	0	0
13. Insulin Sensitizer	0	0	0	0	0	0
14. Magnesium (IV)	0		0	0		0
15. Nitrate (IV)	0		0	0		0
16. Nitrate (Oral/Topical)	0	0	0	0	0	0
17. Nicorandil	0	0	0	0	0	0
18. Omega-3 Fatty Acids	0	0	0	0	0	0
19. Statin	0	0	0	0	0	0
20. Other Lipid Lowering Agent	0	0	0	0	0	0
M. Medication Contraindications (Fill in all th	at apply	<i>'</i>)			
○ ASA ○ Beta Blockers ○ ACE Inf	nibitors	O ARB	○ Statins	O LMW	H OUF	Н
N. Lifestyle Interventions						
1. If current cigarette smoker, was patier		ed to qu	it smoking by a	health car	re professi	onal?

O Yes

2. Was patient referred to a cardiac rehab program? O No/Unknown

O. IN-HOSPITAL EVENTS

12. Mechanical Complications 1 = Ventricular Septal Defect 2 = Mitral Regurgitation 3 = Free wall rupture



Site ID (Required)					Patient I	D (Require	d)						
O. In-hospital	Event	s: Af	ter F	Preser	ntation								
			Yes				Nο	Yes				No `	Vas
1. Recurrent Isc	hemic	0	0	5 4	Atrial Fib/FI	utter	0	0	10	Acute Re			0
Symptoms		Ü	Ü	_	Sustained \		_	0		Failure	· · · ·	Ŭ	Ü
2. CHF/Pulmona	ıry	0	0				0	_	11.	AV Block	(0	0
Edema	•			7.	Thrombocy	topenia	0	0		(Mobitz I	l, 3°)		
3. Cardiogenic S	Shock	0	0	8. I	-IIT		0	0	12.	Mechanie	cal*	0	0
4. Cardiac Arres	t/VF*	0	0		Venous		0	0		Complica	ation	ſ	
If yes*, specify	/ date:				Thromboen	nbolism				If yes*, e	nter Co	de:	
day m	nonth		ear										
13. MI > 24 hrs after hospital presentation/Re-infarction O No O Yes Date day month year Confirmed by: (Fill in all that apply) O Cardiac Markers O ECG O Peri-procedural													
14. Stroke O No O Yes Date													
Site(s): (Fill i						O Othe			-			-	
Treatment: (Fill in o	ne) (O Sur	gery	O Transfus	sion O E	3oth	Surge	ry and	Transfus	ion () No	ne
P. Discharge S	Statue												
1. Was patient tr			t of o	rocoor	oh protoco	J2 ∩ N	· (O Yes					
2. Discharge O Status (Required)		o H		⊖ Tra	ansfer to An Specific Prod	other Acu	te Fa	acility			_		
3. Date of Discha or Death (Required)		day		month	-		if D (Red	quired)		(24 hou	ir clock)	
5. Primary Disch	n <mark>arge D</mark> ther Ca	i <mark>agno</mark> rdiac	sis -	Fill in o	ne (Required)	Specify C Cardiac I							
6. Who was the O Cardiologist					oared for the	-				spital? (I	Fill in or	ne)	
Forms Completed	d by:							Date	dav	y me	onth		vear .

