PARTICIPANT ID		EW DATE		REVIE	WER'S ID
HEART OUTCOME EVE			_		У
ADMISSION DATE:	/ / pitalization	DISCHA ] ER	ARGE DATE	: / [	
Please check all that may a	oply:				
Myocardial Infarction	Pages 2,	3, Question 1	-4		
Angina — P	ages 2, 4, Question 1-	3, 5			
Congestive Heart Failure (	$CHF) \longrightarrow P$	ages 5, Quest	ion 6		
Stroke	Page 6, Question 7				
	Page 7, Question 8				
Carotid Artery Disease	Page	8, Question 9	)		
Peripheral Arterial Disease	Pag	e 9, Question	10		
Coronary Artery Revascula	arization	Page 10, Qu	estion 11		
Catheterization Without R	evascularization –	Page	e 10, Question	12	
Severe Cardiac Dysrhythm	ia — Pag	e 10, Question	n 13		
AICD Placement	Page	e 10, Question	13.1		
Psychiatric Disorder	Page 11, 9	Question 14			
Other hospitalization, specify diagnosis:					
Fill out only those	bages corresp	onding to	) diagnos	es check	ed above.

PA	ADMISSION DATE ADMISSION DATE
1.	ECG pattern: (Mark the <u>one</u> category that best applies.)
	Evolving diagnostic: New diagnostic Q wave
	Positive: New ST elevation or New LBBB
	Nonspecific: New ST depression or New T wave inversion
	Normal or other ECG findings: All other findings
	ECG not available
2.	Cardiac enzyme information available?
	$\square No \longrightarrow Go to Question 3$
	<b>Yes</b> <b>2.1. Serum CKMB:</b>
	CKMB diagnostic
	CKMB equivocal
	CKMB normal
	CKMB not available
	2.2. Troponin lab test. (Mark the <u>one</u> category that best applies. If more than one test was
	<i>conducted, record the type with the most elevated lab result.</i> ):
	Troponin C ——————————————————————————————————
	Troponin T —
	Troponin, not specified
	Troponin not available — Go to Question 2.3 below
	2.2.1. <b>Results</b> ( <i>Mark the <u>one</u> category that best applies.</i> )
	Troponin diagnostic
	Troponin equivocal
	Troponin normal
	2.3. "Other" cardiac-specific lab (specify):
	<b>2.3.1. Results</b> ( <i>Mark the <u>one</u> category that best applies.</i> )
	Diagnostic
	Equivocal
	Normal
	Other (specify):
3.	Cardiac pain present? (Mark <u>one</u> .)
	Yes
	Unknown/Not recorded

ARTICIP	ANT ID	ADMISSION DATE
Myocar	dial infarction (MI): (Mark <u>one</u> .)	Please refer to classification of MI on page 12
No		r lease rejer to classification of M1 on page 12
Defi	inite	
Prob	pable	
Poss	sible	
Abo	orted	
4.1.	MI during or resulting from	a procedure? (Mark <u>one</u> .)
	No	
	Yes	
	Unknown/Not sure	
4.2.	Was a thrombolytic agent (e procedure (e.g. angioplasty) :	e.g. TPA, streptokinase, urokinase) or administered? (Mark <u>one</u> .)
	No	
	Yes	
	Unknown	
		V
	Toma of mussed on an this admi	ssion: (Mark <u>all that apply</u> .)
4.2.1.	Type of procedure on this admis	
	nary artery bypass graft (CABG)	
Coro	nary artery bypass graft (CABG)	
Coro	nary artery bypass graft (CABG)	ioplasty (PTCA), coronary stent or coronary atherectomy
Coro	nary artery bypass graft (CABG)	
Coro	nary artery bypass graft (CABG) utaneous transluminal coronary ang	
Coro Percu Throu 4.2.2. acute MI	nary artery bypass graft (CABG) utaneous transluminal coronary ang mbolytic agent <b>Was the MI aborted?</b> (Diagnosis at presentation; intervention [throw	ioplasty (PTCA), coronary stent or coronary atherectomy s of an aborted MI requires: symptoms and ECG evidence f nbolytic therapy or a procedure] followed by resolution of
Coro Percu Throu 4.2.2. acute MI ECG char	nary artery bypass graft (CABG) utaneous transluminal coronary ang mbolytic agent <b>Was the MI aborted?</b> ( <i>Diagnosis</i> )	ioplasty (PTCA), coronary stent or coronary atherectomy s of an aborted MI requires: symptoms and ECG evidence f nbolytic therapy or a procedure] followed by resolution of
Coro Percu Throi 4.2.2. acute MI ECG chan	nary artery bypass graft (CABG) utaneous transluminal coronary ang mbolytic agent <b>Was the MI aborted?</b> (Diagnosis at presentation; intervention [throw	ioplasty (PTCA), coronary stent or coronary atherectomy s of an aborted MI requires: symptoms and ECG evidence f nbolytic therapy or a procedure] followed by resolution of
Coro Percu Throu 4.2.2. acute MI ECG char	nary artery bypass graft (CABG) utaneous transluminal coronary ang mbolytic agent <b>Was the MI aborted?</b> (Diagnosis at presentation; intervention [throm nges; and all cardiac enzymes with	ioplasty (PTCA), coronary stent or coronary atherectomy s of an aborted MI requires: symptoms and ECG evidence for nbolytic therapy or a procedure] followed by resolution of

PARTICIPANT ID	ADMISSION DATE						
Angina Pectoris (including unstable angina; in the ABS	ENCE of myocardial infarction): (Mark <u>o</u>						
<b>Angina Pectoris:</b> <i>Chest pain, tightness or shortness of breath produced by</i> <i>not result in infarction (usually caused by coronary insug</i>	-						
No							
Definite —							
Probable —							
Unknown/Not sure							
5.1. Angina pectoris (including unstable angina) is l	<b>based on:</b> ( <i>Mark <u>all</u> that apply.</i> )						
Symptoms consistent with angina							
Final physician diagnosis of angina							
Receiving medical treatment for angina on this admission or calcium channel blocker)	n (e.g. nitrate, beta-blocker						
Current medical record documenting a history of coronar or revascularization procedure	ry heart disease by previous catheterization						
CABG surgery or other revascularization procedure on the	his admission						
70% or greater obstruction of any coronary artery on ang	iography on this admission						
Horizontal or down-sloping ST-segment depression or all or pharmacological stress testing with pain on this admis							
Scintigraphic or echocardiographic stress test positive fo	r ischemia on this admission						
Resting ECG shows horizontal or down-sloping ST depr with pain that is not present on ECG witout pain on this a							

PARTICIPANT ID	ADMISSION DATE
Congestive Heart Failure (CHF	"): (Mark <u>one</u> .)
Physician diagnosis of congestiv	e heart failure exacerbation <u>on this admission.</u>
No	
Definite	
Probable Unknown/Not sure	
5.1. MESA/CARDIA CHF criteria:	(Mark <u>all</u> that apply.)
Final diagnosis of CHF exacerbation	on by physician
Receiving medical treatment for C beta-blockers, or ACE inhibitors)	HF (e.g., diuretics, digitalis, vasodilators,
Systolic or diastolic dysfunction by radionuclide ventriculogram or mu	y current or past echocardiography, contrast ventriculography, ultigated acquisition (MUGA) scan
5.1.1 Framingham CHF criteria: (Ma	ark <u>all</u> that apply.)
Symptoms           Paroxysmal nocturnal dyspnea*	Diagnosis of CHF requires 2 major*
Orthopnea*	or 1 major* plus 2 minor criteria
Dyspnea on exertion	
Weight loss $\geq$ =4.5kg in 5 days, rela	
Weight loss >=4.5kg in 5 days, not	t related to change in CHF therapy
Signs of CHF on this admission	CXR on this admission
Elevated JVP*	
Pulmonary rales*	Pulmonary edema*
Third heart sound*	Cardiomegaly*
Peripheral edema	Pleural effusion
Hepatomegaly	
Heart rate >120/min	

PARTICIPANT ID	AD	MIS	SSIO	N D	ATE	
		/		]/		
7. Stroke: (Mark <u>one</u> .) Stroke: Deficit is not known to be secondary to brain trauma, tumor, infection or other no	n isch			5.0	]	
Deficit is not known to be secondary to brain trauma, tumor, injection or other no         No         Definite	n-iscn	emi	<u>c cau</u>	se.	]	
Probable Unknown/Not sure						
7.1. Diagnosis: (Mark the <u>one</u> category that best applies.)						
Subarachnoid hemorrhage not resulting from a procedure						
Intracerebral hemorrhage not resulting from a procedure						
Other or unspecified nontraumatic epideural or subdural hemorrhage not resu	ulting	fron	n a pr	oced	ure	
Acute, but ill-defined, cerebrovascular disease not resulting from a procedure	e					
Central nervous sytem complications during or resulting from a procedure						
Occlusion of cerebral or precerebral arteries with infarction not resulting from cerebral thrombosis cerebral embolism lacunar infarc	_	oced	dure:			
<b>7.2.</b> Stroke diagnosis based on: (Mark all that apply.)						
Physician diagnosis of stroke						
CT or MRI scan shows acute focal brain lesion without evidence of blood						
Neurological deficit with duration $\geq 24$ hours						
Rapid onset of neurological deficit						
Surgical evidence of ischemic infarction of brain CT or MRI findings of blood in subarachnoid space or intra-parenchymal hem	orrhad	10				
Positive lumbar puncture (for subarachnoid hemorrhage)	onnag	;c				
Surgical evidence of ischemic infarction of brain						
Other known causes of deficit ruled out						
Other (specify):						

Transient Ischemic Attack (TIA): (Mark	<u>one</u> .)		
<b>Transient Ischemic Attack:</b> One or more episodes of a focal neurologic of longer than 24 hours. Rapid evolution of the 5 minutes., with subsequent complete resolut before onset of the neurological event.	symptoms to the maxi	imal deficit in less than	
No			
Definite —			
Probable			
Unknown/Not sure			
	▼		
<b>Diagnosis of TIA based on:</b> (Mark	all that apply.)		
Episode of focal neurologic deficit			
Episode lasting more than 30 seconds, but	no longer than 24 hour	rc	
	-	15	
Rapid evolution of symptoms (maximum <	5 minutes)		
Complete resolution			
Other causes ruled out			
No evidence of clonic jerking, conjugate ey scotoma or headache with nausea and vomi		d Jacksonian march, scin	ntillating

PA	RT	ICIP.	ANT I	D									A	D	AIS	SSIO	N D		E
															/				
	Ca	rotid	Arter	y Diseas	e: (Mai	rk <u>one</u>	<u>e</u> .)												
		Disea	se mus	t <b>ery Dise</b> st be symp cedure).		ic and	l/or re	equirin	ıg inter	vent	ion (e.g	. vasc	ular	or					
	No																		
		inite ·																	
_																			
	Unł	knowr	n/Not s	ure															
.1.		Di	agnosi	s: (Mark	: <u>one</u> .)														
		Car	otid ar	tery occlu	usion a	nd ste	nosis	witho	ut docu	imen	itation o	of cere	bral	infa	rct	ion			
	Г	Car	otid ar	tery occlu	usion a	nd ste	nosis	with v	vritten	docu	imentati	ion of	cere	bral	l in	farct	ion		
	L			5															
.2.		Ca	rotid	artery di	sease b	oased	<b>on:</b> (	(Mark	<u>all</u> tha	t app	oly.)								
		Syı	nptom	atic disea	se with	1 caro	tid art	tery di	sease l	isted	on the	hospit	tal di	sch	arg	e sur	nma	ry	
		Ab	norma	l findings	(>=50	1% ste	nosis	) on ca	arotid a	ngio	gram or	dopp	oler fl	ow	stu	dy			
	Γ	Va	scular	or surgica	al proce	edure	to im	prove	flow to	o ipsi	lateral l	orain							
		_																	

PARTICIPANT ID	ADMISSION DATE
10. Peripheral Arterial Disease (aorta, iliac arte	e <b>ries or below):</b> (Mark <u>one</u> .)
<b>Peripheral Arterial Disease:</b> Symptomatic disease including intermittent gangrene. Disease must be symptomatic and vascular or surgical procedure for arterial abdominal aortic aneurysm.	d/or requiring intervention (e.g.
No	
Definite —	
Probable —	
Unknown/Not sure	
<b>10.1. Diagnosis:</b> (Mark the <u>one</u> category the	at best applies.)
Lower extremity claudication	
Atherosclerosis of arteries of the low	ver extremities
Arterial embolism and/or thrombosis	s
Abdominal aortic aneurysm	
<b>10.2.</b> Peripheral arterial disease diagnosis	<b>based on:</b> ( <i>Mark <u>all</u> that apply.</i> )
Final physician diagnosis of peripheral arterial c	lisease during hospitalization
Ultrasonographically/angiographically demonst diameter or >=75% of the x-sectional area) of the rer	rated obstruction or ulcerated plaque (>=50% of the nal artery or of the iliac arteries or below
Absence of pulse by doppler in any major vesse	l of lower extremities
Exercise test that is positive for lower extremity	claudication
Surgery, angioplasty or thrombolysis for periphe	eral arterial disease
Amputation of one or more toes of the lower extended and the lower e	tremity because of ischemia or gangrene
Exertional leg pain relieved by rest	
Ankle-arm systolic blood pressure ratio <= 0.8	
Radiologically demonstrated abdominal aortic a	neurysm
Surgical or vascular procedure for abdominal ac	ortic aneurysm

PA	ARTICIPANT ID ADMISSION DATE
11.	Coronary Artery Revascularization: (Mark <u>one</u> .)
	<b>Coronary Artery Revascularization:</b> Coronary artery revascularization consisting of coronary artery bypass grafting (CABG), percutaneous transluminal coronary angioplasty (PTCA) with or without placement of an intracoronary stent or coronary artery atherectomy but will not include treatment with a fibrinolytic agent.
	No
	Definite — Probable —
	Unknown/Not sure
	<b>11.1. Diagnosis:</b> (Mark <u>all</u> that applies.)
	Coronary artery bypass grafting (CABG)
	Percutaneous transluminal coronary angioplasty (PTCA) without placement of stent
	PTCA with placement of stent
	Atherectomy
	Other (specify):
12.	Catheterization Without Revascularization: (Mark <u>one</u> .)
	Yes
13.	Severe Cardiac Dysrhythmia Requiring External Defibrillation, Ablation, Pacemaker or AICD placement: (Mark <u>one</u> .)
	No Yes
13.1.	AICD placement for other reasons: (Mark <u>one</u> .)
	No

PARTICIPANT ID	ADMISSION DATE
4. <b>Psychiatric Disorder:</b> (Mark one.)	
No Yes	
<b>14.1.</b> Diagnosis: (Mark <u>all</u> that apply.)	Definite
Major Depression	Probable Unknown/Not sure
Post traumatic stress disorder	Definite Definite Probable Unknown/Not sure
Substance abuse ———	<ul> <li>Definite</li> <li>Probable</li> <li>Unknown/Not sure</li> </ul>
Schizophrenia/psychosis ———	Definite Probable Unknown/Not sure
Generalized anxiety disorder	<ul> <li>Definite</li> <li>Probable</li> <li>Unknown/Not sure</li> </ul>
Obsessive compulsive disorder	Definite Probable Unknown/Not sure
Personality disorder, specify type:	Definite Probable
	Unknown/Not sure
Other, specify:	Definite Definite Probable Unknown/Not sure



## **CLASSIFICATION OF MI**

Diagnosis of MI based on symptoms, enzymes and ECG as follows:

CARDIAC SYMPTOMS OR SIGNS PRESENT	CARDIAC ENZYMES							
ECG PRESENT	Diagnostic	Equivocal	Missing	Normal				
Evolving Diagnostic	Definite MI	Definite MI	Definite MI	Definite MI				
Positive	Definite MI	Probable MI	Probable MI	No MI				
Nonspecific	Definite MI	Possible MI	No MI	No MI				
Normal or other ECG findings	Definite MI	, Possible MI	No MI	No MI				

CARDIAC SYMPTOMS OR SIGNS ABSENT	CARDIAC ENZYMES			
ECG PRESENT	Diagnostic	Equivocal	Missing	Normal
Evolving Diagnostic	Definite MI	Definite MI	Definite MI	Definite MI
Positive	Definite MI	Probable MI	Possible MI	No MI
Nonspecific	Definite MI*	Possible MI	No MI	No MI
Normal or other ECG findings	Definite MI*	No MI	No MI	No MI

\*In absence of diagnostic troponin, downgrade to possible

ECG	Enzymes	
<b>Evolving diagnostic:</b> New Diagnostic Q wave	Diagnostic: positive biomarker and rising or falling pattern	
	in setting of clinical cardiac ischemia	
Positive: New ST elevation or New LBBB	Equivocal: one positive biomarker or rising or falling	
	pattern not in setting of clinical cardiac ischemia	
Nonspecific: New ST depression or	Missing: biomarker not measured	
New T wave inversion		
Normal: All other findings	Normal: no positive biomarker	

Positive biomarker=exceeding 99th percentile of the distribution in healthy populations

## At VA:

**Troponin**: 95% of normal subjects have troponin values <0.05. The recommended threshold for acute MI is >0.40. Values between 0.06 and 0.40 should be interpreted in the context of the patient's clinical presentation.

**CKMB**: Reference range 0 - 7. Values >7 consistent with MI. However, CKMB also found in skeletal muscle; interpret results in clinical context.

