



HCHS/SOL MYOCARDIAL INFARCTION ABSTRACTION FORM (MIF)

ID NUMBER:

FORM CODE: MIF
VERSION: 2/20/13

Contact Occasion

SEQ #

ADMINISTRATIVE INFORMATION

0A. Completion Date: / /
Month/Day/Year

0B. Staff ID:

Event ID:

Event Date: / /

Instructions: Answers are derived from the medical records received. Do not complete this form until all records are received (or classified as unobtainable) as indicated on the Verification of ICD Discharge Codes Form

A. GENERAL INFORMATION

1. Was the event (choose one):
1= In hospital only 2= Emergency Dept. visit only(ED) 3= Both ED and in hospital

2. Date of arrival: (mm/dd/yyyy) / /

a. Time of arrival : 1= A.M., 2 = P.M.

b. Date of admission / /

3. Date of discharge: (mm/dd/yyyy) / /

a. Time of discharge : 1= A.M., 2 = P.M.

4. What was the primary admitting diagnosis code? .

5. What was the primary discharge diagnosis code? .

6. Did an emergency medical service unit transport the patient to this hospital? No/NR Yes

7. Was the patient transferred to this hospital from another hospital? No Yes

8. Was the patient's code status ever "no-code" or "DNR" (do not resuscitate)? No Yes

9. Was the patient alive at discharge? **If Yes, go to Item 10** No Yes

9.a. Was the patient dead on arrival? No Yes

9.b. Did the patient die in the Emergency Department? No Yes

9.c. Was an autopsy performed? No Yes

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B. PRESENTING SIGNS AND SYMPTOMS

- | | <u>No</u> | <u>Yes</u> | <u>NR</u>
<small>Not recorded</small> |
|---|--|--|---|
| 10. Did the onset of the acute episode occur prior to admission? | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 9 <input type="checkbox"/> |
| a. If YES, estimate the time from onset of symptoms of acute condition to arrival at the hospital | | | |
| < 1hr <input type="checkbox"/> | ≥ 1- < 3 hrs <input type="checkbox"/> | ≥ 3 - < 6 hrs <input type="checkbox"/> | Unsure <input type="checkbox"/> |
| ≥ 6 - < 12 hrs <input type="checkbox"/> | ≥ 12 - < 24 hrs <input type="checkbox"/> | ≥ 24 hrs. <input type="checkbox"/> | |
| 11. Was there mention of an acute CHD event with onset <u>after</u> arrival at the hospital? | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 9 <input type="checkbox"/> |
| 12. Was there an acute episode(s) of pain or discomfort (eg: tightness) anywhere in the chest, arm, shoulder throat or jaw, either within 72 hours prior to arrival to the hospital, or in conjunction with the in-hospital CHD event?
(If No or NR, go to Item 13) | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 9 <input type="checkbox"/> |
| a. Did this pain or discomfort specifically involve the chest? | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 9 <input type="checkbox"/> |
| b. Did the pain get worse (crescendo) over time? | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 9 <input type="checkbox"/> |
| c. Was the pain or discomfort diagnosed as having a non-cardiac origin? | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 9 <input type="checkbox"/> |
| 13. Was there nausea or vomiting associated with this event? | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 9 <input type="checkbox"/> |
| 14. Was there diaphoresis associated with this event? | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 9 <input type="checkbox"/> |
| 15. Was there fatigue or malaise associated with this event? | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 9 <input type="checkbox"/> |
| 16. Vital Signs at arrival (or event onset) and not during CPR | | | |
| a. Blood pressure | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | / | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> mmHg |
| b. Heart rate | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | bpm |

C. MEDICAL HISTORY

- | | <u>No/NR</u> | <u>Yes</u> |
|--|----------------------------|----------------------------|
| 17. Prior to this event was there history of any of the following: | | |
| 17.a. Myocardial infarction <i>If No or NR, skip to 17.b.</i> | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 1. If history of MI, then MI within 4 weeks of this event? | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 17.b. Angina | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 17.c. Percutaneous coronary intervention (PCI) | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 17.d. CABG | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 17.e. Coronary artery disease (CAD) | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 17.f. Heart failure | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 17.g. Arrhythmia | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| <u>IF YES</u> , specify type of arrhythmia | | |

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- | | | | |
|--------|--------------------------------------|----------------------------|----------------------------|
| 17.g.1 | Atrial Fibrillation/Flutter | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 17.g.2 | Ventricular Fibrillation/Tachycardia | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 17.g.3 | Other arrhythmia | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |

D. ACTIVE OR CURRENT MEDICAL PROBLEMS (DURING THIS HOSPITALIZATION)

18. Did a physician indicate any of these as being present during the hospitalization? Exclude old episodes; include only current conditions.

- | | No/NR | Yes |
|--|----------------------------|----------------------------|
| 18.a. Angina | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 18.b. Acute myocardial Infarction | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 18.c. ST elevation > 1mm with pain that is not present on ECG without pain | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 18.d. Congestive heart failure exacerbation or pulmonary edema | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 1. <u>IF YES</u> , Did heart failure/pulmonary edema occur within 24 hours of event onset? | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 18.e. Shock or cardiogenic shock | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 1. <u>IF YES</u> , Did shock occur within 24 hours of event onset? | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 18.f. Ventricular fibrillation, cardiac arrest or asystole | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 1. <u>IF YES</u> , Did the arrest occur within 24 hours of event onset? | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 18.g. Ventricular Tachycardia | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 18.h. Atrial fibrillation or atrial flutter | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |

E. BIOMARKERS

- | | No/NR | Yes |
|---|----------------------------|----------------------------|
| 19. Were cardiac enzymes reported within days 1-4 after arrival at the hospital or after the in-hospital CHD event? If No/NR skip to 32 | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| a. Were cardiac enzymes reported the day of arrival at the hospital or the first day of the in-hospital CHD event? If No/NR go to item 24. | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| b. Were cardiac enzymes reported the day after arrival at the hospital or the second day of the in-hospital CHD event? If No/NR go to item 26. | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| c. Were cardiac enzymes reported the third day of the CHD event? If No/NR go to item 28. | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| d. Were cardiac enzymes reported the fourth day of the CHD event? If No/NR go to item 30. | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |

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Biomarker Laboratory Standards:

***Units: 1= ng/mL 2 = Units/L 3 = µg/L**

20. Range Set 1

a. Total CK (CPK)

	Upper limit of normal (only)	Units*
a1.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	a2. <input type="text"/>

b. CK-MB

b1.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	b2. <input type="text"/>
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c. Total LDH

c1.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	c2. <input type="text"/>
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d. LDH – 1

d1.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	d2. <input type="text"/>
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e. LDH – 2

e1.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	e2. <input type="text"/>
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f. Troponin

<input type="checkbox"/> <	f1.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	f2. <input type="text"/>
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f.3. What type of Troponin was this?

1= Troponin, type not specified

2= Troponin I

3= Troponin T

4= High Sensitivity Troponin (HS)

5= Unsure

g. Was there a second set of upper limit of normal values? **If No/NR skip to first day of reported enzymes.**

No/NR	Yes
0 <input type="checkbox"/>	1 <input type="checkbox"/>

21. Range Set 2

a. Total CK (CPK)

	Upper limit of normal (only)	Units*
a1.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	a2. <input type="text"/>

b. CK-MB

b1.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	b2. <input type="text"/>
-----	--	--------------------------

c. Total LDH

c1.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	c2. <input type="text"/>
-----	---	--------------------------

d. LDH – 1

d1.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	d2. <input type="text"/>
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e. LDH – 2

e1.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	e2. <input type="text"/>
-----	--	--------------------------

f. Troponin

<input type="checkbox"/> <	f1.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	f2. <input type="text"/>
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f.3. What type of Troponin was this?

1= Troponin, type not specified

2= Troponin I

3= Troponin T

4= High Sensitivity Troponin (HS)

5= Unsure

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Daily Biomarkers Measurements:

Note: When a value is recorded using words rather than numerals, use the following codes to record the value: **absent/negative/normal = 1, trace/weak positive = 2, present/positive/abnormal = 3**

Note: If more than two sets pick the two with the highest values of Troponin

22. Day 1/Set 1 Date: / /

		Units* (see pg. 3)	Range Set* (1or 2)	Words Code*
a. Total CK (CPK)	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	a1. <input type="text"/>	a2. <input type="text"/>	a3. <input type="text"/>
b. CK-MB	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	b1. <input type="text"/>	b2. <input type="text"/>	b3. <input type="text"/>
c. Total LDH	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	c1. <input type="text"/>	c2. <input type="text"/>	c3. <input type="text"/>
d. LDH-1	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	d1. <input type="text"/>	d2. <input type="text"/>	d3. <input type="text"/>
e. LDH-2	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	e1. <input type="text"/>	e2. <input type="text"/>	e3. <input type="text"/>
f. Troponin	<input type="text"/> < <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	f1. <input type="text"/>	f2. <input type="text"/>	f3. <input type="text"/>

f4. What type of Troponin was this?

- 1= Troponin, type not specified
- 2= Troponin I
- 3= Troponin T
- 4= High Sensitivity Troponin (HS)
- 5= Unsure

g. Was a second set of enzymes reported the first day of the CHD event? If No/NR go to item 24. No/NR 0 Yes 1

23. Day 1/Set 2 Date: / /

		Units* (see pg. 3)	Range Set* (1or 2)	Words Code*
a. Total CK (CPK)	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	a1. <input type="text"/>	a2. <input type="text"/>	a3. <input type="text"/>
b. CK-MB	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	b1. <input type="text"/>	b2. <input type="text"/>	b3. <input type="text"/>
c. Total LDH	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	c1. <input type="text"/>	c2. <input type="text"/>	c3. <input type="text"/>
d. LDH-1	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	d1. <input type="text"/>	d2. <input type="text"/>	d3. <input type="text"/>
e. LDH-2	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	e1. <input type="text"/>	e2. <input type="text"/>	e3. <input type="text"/>
f. Troponin	<input type="text"/> < <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	f1. <input type="text"/>	f2. <input type="text"/>	f3. <input type="text"/>

f.4. What type of Troponin was this?

- 1= Troponin, type not specified
- 2= Troponin I
- 3= Troponin T
- 4= High Sensitivity Troponin (HS)
- 5= Unsure

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24. Day 2/Set 1

Date: /

- a. Total CK (CPK)
- b. CK-MB
- c. Total LDH
- d. LDH-1
- e. LDH-2
- f. Troponin

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Units*
(see pg. 3)

a1.	<input type="text"/>
b1.	<input type="text"/>
c1.	<input type="text"/>
d1.	<input type="text"/>
e1.	<input type="text"/>
f1.	<input type="text"/>

Range Set*
(1or 2)

a2.	<input type="text"/>
b2.	<input type="text"/>
c2.	<input type="text"/>
d2.	<input type="text"/>
e2.	<input type="text"/>
f2.	<input type="text"/>

Words Code*

a3.	<input type="text"/>
b3.	<input type="text"/>
c3.	<input type="text"/>
d3.	<input type="text"/>
e3.	<input type="text"/>
f3.	<input type="text"/>

<

f.4. What type of Troponin was this?

- 1= Troponin, type not specified
- 2= Troponin I
- 3= Troponin T
- 4= High Sensitivity Troponin (HS)
- 5= Unsure

g. Was a second set of enzymes reported the second day of the CHD event? **If No/NR go to item 26.**

No/NR
0

Yes
1

25. Day 2/Set 2

Date: /

- a. Total CK (CPK)
- b. CK-MB
- c. Total LDH
- d. LDH-1
- e. LDH-2
- f. Troponin

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Units*
(see pg. 3)

a1.	<input type="text"/>
b1.	<input type="text"/>
c1.	<input type="text"/>
d1.	<input type="text"/>
e1.	<input type="text"/>
f1.	<input type="text"/>

Range Set*
(1or 2)

a2.	<input type="text"/>
b2.	<input type="text"/>
c2.	<input type="text"/>
d2.	<input type="text"/>
e2.	<input type="text"/>
f2.	<input type="text"/>

Words Code*

a3.	<input type="text"/>
b3.	<input type="text"/>
c3.	<input type="text"/>
d3.	<input type="text"/>
e3.	<input type="text"/>
f3.	<input type="text"/>

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f.4. What type of Troponin was this?

- 1= Troponin, type not specified
- 2= Troponin I
- 3= Troponin T
- 4= High Sensitivity Troponin (HS)
- 5= Unsure

26. Day 3/Set 1

Date: /

- a. Total CK (CPK)
- b. CK-MB
- c. Total LDH
- d. LDH-1
- e. LDH-2
- f. Troponin

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Units*
(see pg. 3)

a1.	<input type="text"/>
b1.	<input type="text"/>
c1.	<input type="text"/>
d1.	<input type="text"/>
e1.	<input type="text"/>
f1.	<input type="text"/>

Range Set*
(1or 2)

a2.	<input type="text"/>
b2.	<input type="text"/>
c2.	<input type="text"/>
d2.	<input type="text"/>
e2.	<input type="text"/>
f2.	<input type="text"/>

Words Code*

a3.	<input type="text"/>
b3.	<input type="text"/>
c3.	<input type="text"/>
d3.	<input type="text"/>
e3.	<input type="text"/>
f3.	<input type="text"/>

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f.4. What type of Troponin was this?

- 1= Troponin, type not specified
- 2= Troponin I
- 3= Troponin T
- 4= High Sensitivity Troponin (HS)
- 5= Unsure

g. Was a second set of enzymes reported the third day of the CHD event? **If No/NR go to item 28.** No/NR 0 Yes 1

27. Day 3/Set 2	Date: <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Units* (see pg. 3)	Range Set* (1 or 2)	Words Code*
a. Total CK (CPK)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	a1. <input type="checkbox"/>	a2. <input type="checkbox"/>	a3. <input type="checkbox"/>
b. CK-MB	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/> <input type="checkbox"/>	b1. <input type="checkbox"/>	b2. <input type="checkbox"/>	b3. <input type="checkbox"/>
c. Total LDH	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	c1. <input type="checkbox"/>	c2. <input type="checkbox"/>	c3. <input type="checkbox"/>
d. LDH-1	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/> <input type="checkbox"/>	d1. <input type="checkbox"/>	d2. <input type="checkbox"/>	d3. <input type="checkbox"/>
e. LDH-2	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/> <input type="checkbox"/>	e1. <input type="checkbox"/>	e2. <input type="checkbox"/>	e3. <input type="checkbox"/>
f. Troponin <input type="checkbox"/> <	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/> <input type="checkbox"/>	f1. <input type="checkbox"/>	f2. <input type="checkbox"/>	f3. <input type="checkbox"/>

f.4. What type of Troponin was this?

- 1= Troponin, type not specified
- 2= Troponin I
- 3= Troponin T
- 4= High Sensitivity Troponin (HS)
- 5= Unsure

28. Day 4/Set 1	Date: <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Units* (see pg. 3)	Range Set* (1 or 2)	Words Code*
a. Total CK (CPK)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	a1. <input type="checkbox"/>	a2. <input type="checkbox"/>	a3. <input type="checkbox"/>
b. CK-MB	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/> <input type="checkbox"/>	b1. <input type="checkbox"/>	b2. <input type="checkbox"/>	b3. <input type="checkbox"/>
c. Total LDH	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	c1. <input type="checkbox"/>	c2. <input type="checkbox"/>	c3. <input type="checkbox"/>
d. LDH-1	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/> <input type="checkbox"/>	d1. <input type="checkbox"/>	d2. <input type="checkbox"/>	d3. <input type="checkbox"/>
e. LDH-2	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/> <input type="checkbox"/>	e1. <input type="checkbox"/>	e2. <input type="checkbox"/>	e3. <input type="checkbox"/>
f. Troponin <input type="checkbox"/> <	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> . <input type="checkbox"/> <input type="checkbox"/>	f1. <input type="checkbox"/>	f2. <input type="checkbox"/>	f3. <input type="checkbox"/>

f.4. What type of Troponin was this?

- 1= Troponin, type not specified
- 2= Troponin I
- 3= Troponin T
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- 5= Unsure

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g. Was a second set of enzymes reported the fourth day of the CHD event? **If No/NR go to item 30.**

No/NR
0

Yes
1

29. Day 4/Set 2

Date: //

Units*
(see pg. 3)

Range Set*
(1 or 2)

Words Code*

a. Total CK (CPK)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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a1.

a2.

a3.

b. CK-MB

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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b1.

b2.

b3.

c. Total LDH

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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c1.

c2.

c3.

d. LDH-1

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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d1.

d2.

d3.

e. LDH-2

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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e1.

e2.

e3.

f. Troponin

<input type="checkbox"/>	<	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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f1.

f2.

f3.

f.4. What type of Troponin was this?

1= Troponin, type not specified

2= Troponin I

3= Troponin T

4= High Sensitivity Troponin (HS)

5= Unsure

30. Is there mention of the patient having either trauma, a surgical procedure, or rhabdomyolysis, within one week prior to measurement of biomarkers?

If No/NR skip to 32

0 No/NR

1 Yes

If yes, Indicate the type of procedure or trauma:

	No	Yes	Date
a. Cardiac procedure	0 <input type="checkbox"/>	1 <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
b. CPR or cardioversion	0 <input type="checkbox"/>	1 <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
c. Other cardiac trauma	0 <input type="checkbox"/>	1 <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
d. Rhabdomyolysis	0 <input type="checkbox"/>	1 <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
e. Intramuscular Injection	0 <input type="checkbox"/>	1 <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
f. Non-cardiac procedure	0 <input type="checkbox"/>	1 <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
g. Non-cardiac trauma	0 <input type="checkbox"/>	1 <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

c2. Specify: _____

f2. Specify: _____

31. Enter the item number from the biomarkers section (items 22-29) of this form which corresponds to the first biomarker measurement performed after the trauma, cardiac procedure or rhabdomyolysis:

32. Is there evidence of hemolytic disease during the hospitalization?

0 No/NR

1 Yes

33. Did the participant have any active liver disease (cirrhosis, hepatitis, liver cancer, etc.)?

0 No/NR

1 Yes

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F. Electrocardiography

34. Were any 12 lead ECGs taken during this admission? 0 No 1 Yes 9 NR
(If this is an in-hospital event, then first ECG is at time of event)

- | | | | | |
|---------------|--|--------------------------|-------------------------------|--------------------------------|
| a. First ECG | Date: <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | b. Copy of ECG enclosed? | No 0 <input type="checkbox"/> | Yes 1 <input type="checkbox"/> |
| c. Second ECG | Date: <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | d. Copy of ECG enclosed? | No 0 <input type="checkbox"/> | Yes 1 <input type="checkbox"/> |
| e. Third ECG | Date: <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | f. Copy of ECG enclosed? | No 0 <input type="checkbox"/> | Yes 1 <input type="checkbox"/> |
| g. Last ECG | Date: <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | h. Copy of ECG enclosed? | No 0 <input type="checkbox"/> | Yes 1 <input type="checkbox"/> |

G. Procedures and Diagnostics

Were any of the following special procedures or operations performed during this hospitalization?
(Mark all that apply)

- | | <u>No/NR</u> | <u>Yes</u> |
|--|----------------------------|---|
| 35. Transthoracic echocardiogram (TTE) performed? If No/NR, skip to 36 | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| a. LV Ejection fraction: <input type="checkbox"/> <input type="checkbox"/> % | | |
| 36. Was a Nuclear Medicare Scan (MUGA, SPECT or radionuclide ventriculogram (RVG)) performed? If No/NR, skip to 37 | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| a. Ejection fraction: LV: <input type="checkbox"/> <input type="checkbox"/> % b. RV: <input type="checkbox"/> <input type="checkbox"/> % | | |
| c. Stress test positive for ischemia | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 37. Was any stress test (treadmill, pharmacologic, or nuclear medicine) performed during this admission: If No/NR, skip to 38 | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| a. Ejection fraction: LV: <input type="checkbox"/> <input type="checkbox"/> % | | |
| b. Stress test positive for ischemia) | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| c. Greater than or equal to 1mm ST depression or elevation | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| d. Ischemic pain or equivalent occurred | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| 38. Was a coronary angiography performed? If No/NR, skip to 39 | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| a. Date: (mm/dd/yyyy) <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |
| b. Ejection fraction: LV: <input type="checkbox"/> <input type="checkbox"/> % | <u>No</u> | <u>Yes</u> <u>NR</u> |
| c. 70% or greater obstruction of any coronary artery | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> 9 <input type="checkbox"/> |
| d. Were coronary bypass grafts present? | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> 9 <input type="checkbox"/> |

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d1. If yes, number of occluded grafts:

H. Treatment

No/NR

Yes

39. Was coronary reperfusion (CABG, PCI, thrombolysis) attempted? 0 1

If No/NR, Skip to 40

39.a. If yes, what was the approximate time from event onset to reperfusion?

- < 2 hours 2 - <4 hours 4 - <6 hours 6 - <12 hours
 12 - <24 hours 24+ hours not sure

40. Where any of the following treatments given during this hospitalization?

a. Coronary artery bypass graft surgery (CABG) 0 1

a1. If yes, Date: /

a2. Time :

a3. 1= am, 2 = pm

b. Coronary atherectomy 0 1

b1. If yes, Date: /

b2. Time :

b3. 1= am, 2 = pm

c. Intra-arterial or intravenous thrombolytic 0 1

c1. If yes, Date: /

c2. Time :

c3. 1= am, 2 = pm

d. Coronary angioplasty without stent 0 1

d1. If yes, Date: /

d2. Time :

d3. 1= am, 2 = pm

e. Coronary angioplasty with stent placement 0 1

e1. If yes, Date: /

e2. Time :

e3. 1= am, 2 = pm

No/NR

Yes

f. Valve surgery 0 1

g. Non-cardiac surgery 0 1

h. Aortic balloon pump 0 1

i. Pacemaker placement (temporary or permanent) 0 1

j. Cardioversion or defibrillation 0 1

j1. If yes, Date: /

j2. Time :

j3. 1= am, 2 = pm

4. If cardioversion took place after arrival at the hospital, what rhythm(s) were present prior to cardioversion?

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- | | <u>No/NR</u> | <u>Yes</u> |
|--|----------------------------|----------------------------|
| a. Ventricular Fibrillation/Flutter | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| b. Ventricular Tachycardia (VT) | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| c. Asystole | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| d. Complete AV Block (3 HB) | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| e. Atrial Fibrillation/Flutter | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| f. Pulseless Electrical Activity (PEA) | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |

41. During the hospitalization or at discharge, did the participant receive any of the following medications?

- | | <u>Admission Meds</u> | | <u>Discharge Meds</u> | |
|---|----------------------------|----------------------------|----------------------------|----------------------------|
| | <u>No/NR</u> | <u>Yes</u> | <u>No/NR</u> | <u>Yes</u> |
| a. Nitroglycerin | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| b. Beta Blockers | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| c. Calcium Channel Blockers | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| d. ACE Inhibitor or ARB | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| e. Scheduled aspirin (not PRN) | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| f. Heparin or Enoxaparin | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| g. Coumadin, warafin, panwafarin, dicumarol | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| h. Anti-platelet agents (non-aspirin) | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| i. Statin | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |

42. During this hospitalization was this patient treated with:

- | | <u>No/NR</u> | <u>Yes</u> |
|---|----------------------------|----------------------------|
| a. IV pressors | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| b. IV nitroglycerin | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |
| c. IIb / IIIa inhibitors or thrombin inhibitors | 0 <input type="checkbox"/> | 1 <input type="checkbox"/> |