This table summarizes suggested changes to the HRA form Version I

Changes made were highlighted in yellow

| Items in HRA Form | Description of Changes in HRA Form | | | |
|--|---|--|--|--|
| Troponin I questions including Q45m, Q45n, Q46m, Q46n, Q47m, Q47n, Q49m, Q49n, Q50m, Q50n, Q52m, Q52n, Q53m, Q53n, Q55m, Q55n, Q56m and Q56n | Skip instructions updated on page 10-13 | | | |
| Troponin T questions including Q45o, Q45p, Q46o, Q46p, Q47o, Q47p, Q49o, Q49p, Q50o and Q50p, Q52o, Q52p, Q53o, Q53p, Q55o, Q55p, Q56o, and Q56p | Skip instructions updated on page 10-13 | | | |



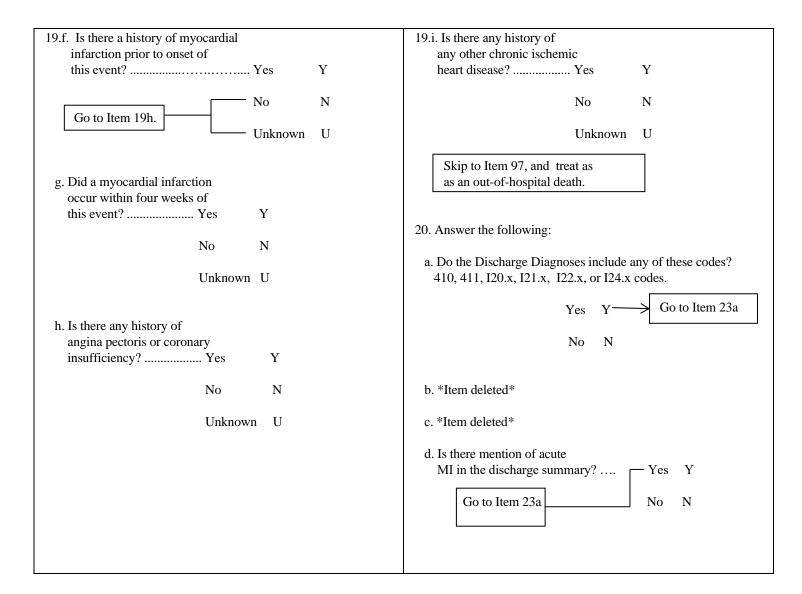
HOSPITAL ABSTRACTION FORM

| ID NUMBER: | | | | | | | | | FORM | И CODE: | I | H R | A |] | | VERSIO | ON: I | | DATE: (| 01/26/202 | 24 |
|------------|------|-----|-------|-------|--------|--------|-------|----------|----------|---------------------------------------|------|-------|---------------|----------|--------|-----------|----------|---------|-----------|------------|------------------------|
| LAST NAME: | | | | | | | | | | | INI | ITIAL | s: | | | | | | | | |
| INSTRUCTIO | ONS: | Eve | nt ID | , Nan | ne (or | Soun | dex c | ode) mu | ust be e | npleted fo ntered ab questions, | ove. | Refer | to this t | form's (| Q by Q | instructi | ions for | informa | tion on e | entering i | ity Form. numerical |
| | | | | | | | | | | | | | | | | | | | | 7 | |
| | | | | | (|).a. I | Hosp | oital co | ode nu | ımber: | | | | | | | | | | | |
| | | | | | 0 |).b. N | Medi | ical Re | ecord | Numbe | er: | | | | | | | | | | |
| | | | | | (|).c. 1 | Date | e of di | _ | ge (for Day | nonf | | case) Year | or dea | ath: | | | | | | |
| | | | | | | 17. | Wha | | Dece | ispositi ased harged | | | D | nt on | | narge? | n 20 | | | | |
| | | | | | 1 | 18. * | Item | ı delet | ted* | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

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| 19.a. Was the patient either dead on arrival or did he/she | 19.c. First recorded Diastolic BP: mmHg |
|---|--|
| die in the emergency room? | d. First recorded Pulse Rate: bpm |
| 19.b. First recorded Systolic BP: mmHg | If pulse rate is greater than 0, go to Item 23a, If 0 or not recorded, and patient lived at least 24 hours, enter 001 and go to Item 23a. If 0 or not recorded and patient died within 24 hours, enter 000 and continue with Item 19e. |
| If zero or not recorded, and patient died within 24 hours, record 000 and go to item 19e. If zero or not recorded and patient lived at least 24 hours, enter 001. | e. Was there (an) acute episode(s) of pain or discomfort anywhere in the chest, left arm or shoulder or jaw either just before death or within 72 hours of death? |

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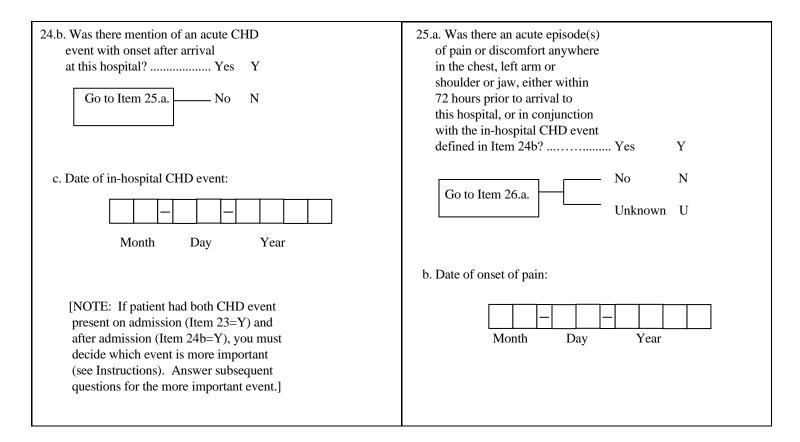


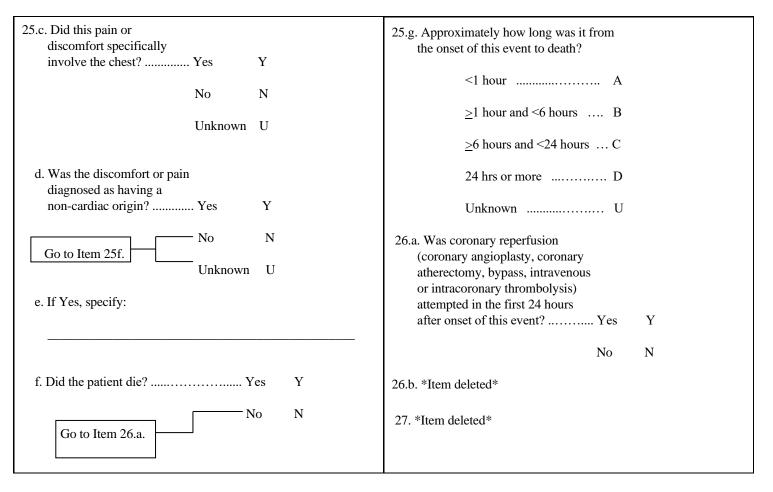
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| 20.e. The following apply to this chart: | 23.a. Did acute cardiac symptoms begin |
|---|--|
| (DMS will auto fill with a "Y") | prior to arrival at this hospital? |
| 1. Is this person a cohort participant? Yes Y | Yes Y |
| 2. Is there more than one ECG? Yes Y | -No, after arrival N |
| Go to Item 23a. No N | —No acute cardiac symptoms A |
| 3. Is any Cardiac Enzyme | —Unknown U |
| above the normal limit? Yes Y | Go to Item 24a. |
| Go to Item 23a. No N | Go to Rein 2 has |
| 4. Was there a transfer | |
| (in or out)? Yes Y | |
| No N | |
| If 20e2-20e4=N, go to item 97 | |
| 21.a21.d. *Items deleted* | |
| 22. *Item deleted* | |

| 23.b. Estimated time from onset of acute cardiac | 24.a. What was the primary diagnosis or | | | | | |
|--|---|--|--|--|--|--|
| symptoms to arrival at this hospital. | reason for admission to this hospital? | | | | | |
| <1 hour A | Elective cardiac | | | | | |
| ≥1 hour and <2 hours B | catheterization A | | | | | |
| ≥2 hours and <4 hours C | Elective coronary bypass surgery B | | | | | |
| ≥4 hours and <6 hours D | Other non-acute | | | | | |
| ≥6 hours and <12 hours E | CHD evaluation C | | | | | |
| ≥12 hours and <24 hours F | Cancer D | | | | | |
| ≥1 day and <3 days G | Diabetes mellitus E | | | | | |
| ≥3 daysH | Stroke F | | | | | |
| Not recordedU | Chronic obstructive pulmonary disease G | | | | | |
| Go to Item 24b. | Peripheral vascular disease H | | | | | |
| | Gallbladder disease I | | | | | |
| | Other O | | | | | |

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| 28. Were any of the following mentioned as being present during this hospital stay? | | 29. Were the following special procedures or operations | | |
|---|----------|---|------------|-----------------|
| being present during this hospital stay? | | performed during this | | |
| a. Shock or cardiogenic shock | | hospital stay? | | |
| (pump failure) Yes | Y | | | •• |
| Go to Item 28b. No | N | c. Coronary angioplasty Yes | | Y |
| | | No | | N |
| 1. Did shock occur within | | 2 Common of contract Vi | | 3 7 |
| the first 24 hours after onset of this event? Yes | Y | c.2. Coronary atherectomyYes | } | Y |
| 100 | - | No | ı | N |
| No | N | | - | 37 |
| Unknown | U | f. Coronary bypass surgery Y | es | Y |
| | _ | N | No | N |
| b. Congestive heart failure | 37 | | | |
| or pulmonary edema Yes | Y | g. Intracoronary streptokinase, | | |
| Go to Item 29c. No | N | urokinase, anistreplase, APSAC, or TPA reperfusion | Vac | Y |
| | | AI SAC, OF IT A Teperitusion | 105 | 1 |
| 1. Did CHF or pulmonary edema | | | No | N |
| occur within the first | | h. Intravenous streptokinase, | | |
| 24 hours after onset of | v | urokinase, anistreplase | | |
| this event? Yes | Y | APSAC, or TPA reperfusion | Yes | Y |
| No | N | | No | N |
| Unknown | U | | | |
| Olimiowii | C | p.1. Coronary stentYes | Y | |
| * Items 28.c., 28.d., 28.e., 28.e.1., 28.f28.h. | deleted* | p.1. Colonary stent1es | 1 | |
| | | No | N | |
| | | *Items 29.a., 29.b., 29.c.1., 29.c.3., 29 | 9.d., 29 e | . 29.f.1 29.h.1 |
| | | 29.i29.p, 29.p.1.a, 29.p.2., 29.p.2.a, | | |
| | | 29.q.2. deleted* | | |
| | | | | |

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| 30a. Was closed chest massage (CPR) and/or | 33. Is there any history of |
|---|--|
| cardioversion attempted within 24 hours | angina pectoris or coronary |
| prior to arrival at this hospital or | insufficiency? Yes Y |
| anytime during this hospitalization? Yes Y | |
| 7 2 1 | No N |
| No N | *** |
| Go to Item 32 | Unknown U |
| | |
| | If Item 32 or Item 33 is answered |
| | "Yes", Go to Item 35. |
| b. Date of first onset of attempted | 103, 00 to ftch 33. |
| CPR and/or cardioversion: | |
| | |
| Month Day Year | 34.a. Is there a history of any other |
| Monui Day Teai | chronic ischemic heart disease? Yes Y |
| 30.c. *Item deleted* | |
| | No N |
| 31.a31.1. *Items deleted* | Go to Item 35. |
| | |
| 32. Is there a history of myocardial | |
| infarction prior to the onset | |
| of this event? Yes Y | b. Specify: |
| · · | |
| No N | |
| II-l II | |
| Unknown U | |
| | |
| [If U, also review previous discharge diagnoses.] | |
| [11 0, also review previous discharge diagnoses.] | |
| | |
| | |
| 35. Is there a history of valvular | 38.a. Is there a history of hypertension |
| disease or cardiomyopathy? Yes Y | (high blood pressure) prior |
| | to this event? Yes Y |
| No N | |
| | No N |
| | |
| 36. Is there a history of coronary | Unknown II |

36. Is there a history of coronary Unknown bypass surgery prior to this event? Yes b. Does this patient have diabetes No N (high blood sugar), either history or diagnosed this 37. Is there a history of coronary hospitalization?..... Yes Y angioplasty prior to this event? Yes Y No N No N Unknown U 39. *Item deleted* 40. *Item deleted*

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| 41. Were any cardiac enzymes | 42.c. Enter the item number from the biomarkers |
|---|---|
| reported within days 1-4 | section of this form corresponding |
| after arrival at the hospital | to the first biomarker measurement |
| or after in-hospital CHD event? Yes Y | performed after the trauma, cardiac |
| | procedure or rhabdomyolysis: |
| No N | |
| Go to Item 43cc. | |
| | |
| | d. Is there any evidence of |
| | hemolytic disease during |
| 42.a. Is there mention of the | the hospitalization? Yes Y |
| patient having either trauma, | |
| a surgical procedure, or | No N |
| rhabdomyolysis, within one week | |
| prior to measurement of enzymes? Yes Y | |
| | |
| No N | |
| Go to Item 42d. | |
| | |
| b. Indicate type of procedure or trauma: Yes No | |
| | |
| 1. Cardiac procedure | |
| 2. CPR or cardioversion | |
| 3. Other cardiac trauma | |
| | |
| 4. C | |
| 4. Specify: 5. Rhabdomyolysis Y N | |
| , , | |
| 6. Intramuscular injection | |
| 7. Non-cardiac procedure Y N | |
| ↓ | |
| 8. Specify: | |
| o. specify | |
| 9. Non-cardiac trauma | |

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| B. BIOMARKERS 43. LABORATORY STAN | NDARDS | | |
|---|--|----------|--|
| Range Set 1 | Upper Limit of Normal | | pecial** <u>Units</u> |
| Total CK (CPK) | a. | | |
| CK-MB (hrt frac) | b. | c. | |
| 43.d43.j. *Items deleted* | | <u> </u> | |
| Troponin I | u. | v. v. | |
| Troponin T | w. | x. | |
| BNP (brain natriuret | ic peptide): cc. | pg/ml | If Q41=N, then answer only Q43cc, Q43dd and Q43ee. Then skip to Q56aa. |
| Serum Creatinine: | dd. | mg/dl | Q+3dd and Q+3cc. Then skip to Q3oaa. |
| Pro- BNP: | ee. | . pg/ml | |
| Range Set 2 | Upper Limit of Normal | | Special** <u>Units</u> |
| Total CK (CPK) | k | | |
| CK-MB (hrt frac) | 1. | m. | |
| 43.n43.t. *Items deleted* | | | |
| Troponin I | y. | z. | |
| Troponin T | aa. | bb. | |
| 2 = (Negative/Weak Positiv or (Normal/High Norma CK-MB 3 = Expressed as % of total | (Absent/Present) or (Normal/Ab ve/Positive) or (Absent/Trace/Pr al/Abnormal) | resent) | |

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| BIOMARKERS: DAY ONE b. Were enzyme measurements taken on this date? Yes Y | | | | | | | |
|--|---|--|--|--|--|--|--|
| 44.a. Date | No N | | | | | | |
| Month Day Year | Go To Item 48.a. | | | | | | |
| Record values in chronologic order for the three highest reports for each enzyme on Day One of arrival or in-hospital CHD event. | | | | | | | |
| Value (See Footnote next p | page)* <u>Range Set</u> | | | | | | |
| 45. Total CK (CPK) a. | b | | | | | | |
| CK-MB (hrt frac) c. | d. | | | | | | |
| 45.e45.l. *Items deleted* | | | | | | | |
| Troponin I m. | n. If Q43u, Q43v, Q43y and Q43z are all blank, Q45m and Q45n | | | | | | |
| Troponin T o. | p. are skipped. If Q43w, Q43a, Q43aa and | | | | | | |
| 46. Total CK (CPK) a. | b. Q43bb are all blank, Q45o and Q45p are skipped. | | | | | | |
| CK-MB (hrt frac) c. | d | | | | | | |
| 46.e46.l. *Items deleted* | | | | | | | |
| Troponin I m. | n. If Q43u, Q43v, Q43y and Q43z are all blank, Q46m and | | | | | | |
| Troponin T o. | p. Q46n are skipped. If Q43w, Q43a, Q43aa and | | | | | | |
| 47. Total CK (CPK) a. | b. Q43bb are all blank, Q46o and Q46p are skipped. | | | | | | |
| CK-MB (hrt frac) c. | d. | | | | | | |
| 47.e47.1. *Items deleted* | | | | | | | |
| Troponin I m. | n. If Q43u, Q43v, Q43y and Q43z are all blank, Q47m and | | | | | | |
| Troponin T o. | Q47n are skipped. If Q43w, Q43x, Q43aa and Q43bb are all blank, Q47o and Q47p are skipped. | | | | | | |
| | | | | | | | |
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| | | | | | | | |

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| BIOMARKERS: DAY T | wo | |
|--------------------------------------|--|--|
| | b. Were enzyme measurements taken of Go to Item 51.a. Ogic order for the two highest reports for each enzyme on Day Two for | No N |
| in-hospital CHD event. | | |
| 49. Total CK (CPK) CK-MB (hrt frac) | a. | |
| 49.e49.l. *Items deleted* | | If Q43u, Q43v, Q43y and Q43z |
| Troponin I | m. n. n. | are all blank, Q49m and Q49n are skipped. If Q43w, Q43x, Q43aa and |
| Troponin T | o. <u>Value</u> * p. <u>Range Set</u> | Q43bb are all blank, Q49o and Q49p are skipped. |
| 50. Total CK (CPK) | a. b | |
| CK-MB (hrt frac) | c. d. | |
| 50.e50.l. *Items deleted* | | 15042 042 042 1042 |
| Troponin I | m. n. n. | If Q43u, Q43v, Q43y and Q43z are all blank, Q50m and Q50n are skipped. |
| Troponin T | o. p. | If Q43w, Q43x, Q43aa and Q43bb are all blank, Q50o and |
| B = Weak position B | oponin T or absent or normal tive or weak present or trace or high-normal or small positive or abnormal or medium or large | Q50p are skipped. |

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| BIOMARKERS: DAY TH | REE | | | |
|--|--------------|----------------------|---------------|---|
| | ay Year | Go to Item 54.a. | | een on this date? Yes Y No N e following arrival or |
| m-nospital CID event. | | | | |
| 52. Total CK (CPK) CK-MB (hrt frac) | a. c. Value* | | Range Set b | |
| 52.e52.l. *Items deleted* Troponin I Troponin T | m. o. | | n p | If Q43u, Q43v, Q43y and Q43z are all blank, Q52m and Q52n are skipped. If Q43w, Q43x, Q43aa and Q43bb are all blank, Q52o and Q52p are skipped. |
| 53. Total CK (CPK) CK-MB (hrt frac) | a. C. | | Range Set b d | |
| 53.e53.l. *Items deleted* Troponin I Troponin T *Special Values: CK-MB, Troponin I, Trop A = Negative or a B = Weak positiv C = Present or po | | high-normal or small | n p | If Q43u, Q43v, Q43y and Q43z are all blank, Q53m and Q53n are skipped. If Q43w, Q43x, Q43aa and Q43bb are all blank, Q53o and Q53p are skipped. |
| | | | | |

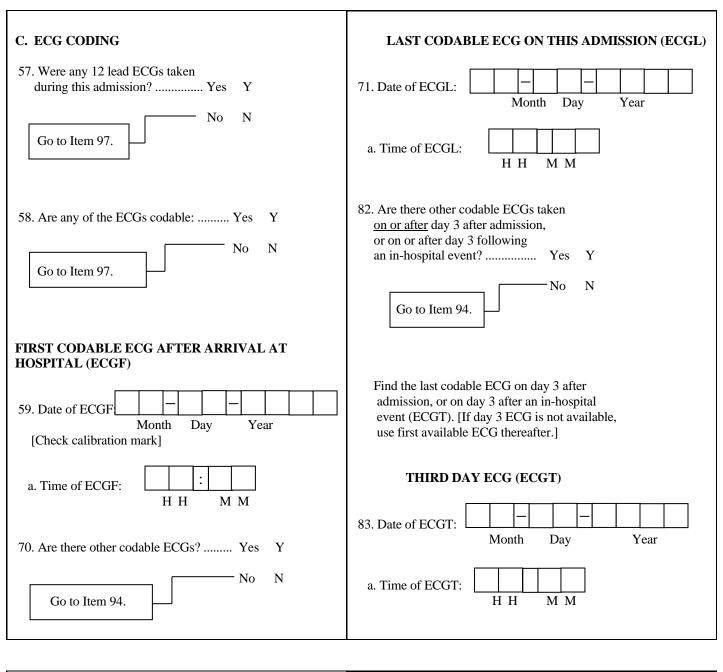
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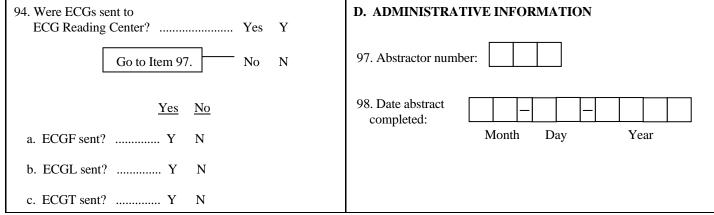
| BIOMARKERS: DAY FOUR | | | | |
|--|----------------|--------------------------|--|--|
| 54.a. Date Month | Day Year | b. Were enzyme measureme | nts taken on this date? Yes Y | |
| Monar | Duy Tour | Go to Item 56aa. | | |
| Record values in chronologic order for the two highest reports for each enzyme on Day Four following arrival or in-hospital CHD event. | | | | |
| | <u>Value</u> * | Range Set | | |
| 55. Total CK (CPK) | a | b | | |
| CK-MB (hrt frac) | c | d | | |
| 55.e55.l. *Items deleted* Troponin I Troponin T | m | n p | If Q43u, Q43v, Q43y and Q43z are all blank, Q55m and Q55n are skipped. If Q43w, Q43x, Q43aa and Q43bb are all blank, Q55o and Q55p are skipped. | |
| | Value* | Range Set | | |
| 56. Total CK (CPK) CK-MB (hrt frac) | a | b. d. | | |
| 56.e56.l. *Items deleted | * | | TC 0.42 0.42 0.42 1.0.42 | |
| Troponin I Troponin T | m | n p | If Q43u, Q43v, Q43y and Q43z are all blank, Q56m and Q56n are skipped. If Q43w, Q43x, Q43aa and | |
| *Special Values: CK-MB, Troponin I, Troponin I, Troponin I = Negative B = Weak pos | | h-normal or small | Q43bb are all blank, Q56o and Q56p are skipped. | |

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| 56.aa Was BNP measured? Yes Y N | | | | |
|--|-----------------------------|--|--|--|
| Go to Q56af. | | | | |
| 56.ab. Record the value of the first, last, and highest measurements of BNP (pg/ml): | | | | |
| 1. First: 2. d. | ate: (mm/dd/yyyy) | | | |
| 3. Last (if more than one): 4. da | ate: (mm/dd/yyyy) | | | |
| 5. Highest of remaining values (if more than two): | nte: (mm/dd/yyyy) | | | |
| 56.af Was pro- BNP measured? Yes No Y N | | | | |
| Go to Q56ae. | | | | |
| 56.ag. Record the value of the first, last, and highest measurements of pro-BNP (pg/ml): | | | | |
| 1. First: 2. d | ate: (mm/dd/yyyy) | | | |
| 3. Last (if more than one): 4. d | ate: (mm/dd/yyyy) | | | |
| 5. Highest of remaining values (if more than two): | ate: (mm/dd/yyyy) | | | |
| *Items 56.ac., 56.ad.1., 56.ad.2., 56.ad.5., 56.ad.6., 56.ad.7. 56.ad.8. deleted and captured on the CEL form* | | | | |
| 56.ae. Is this patient currently on kidney dialysis (anytime in the last four weeks)? YES Y NO N | | | | |
| | | | | |

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