(LCA1MGH.CODING.MANUAL.HONOLULU.H20MORB)

HONOLULU HEART PROGRAM

DSN=H20MORB

SAS NAME: H20MORB

NUMBER OF RECORDS 14494

PROGRAM:.HONOLULU.H20MORB.PROGRAM.DEC03.SAS

IDPUBLIC   IDENTIFICATION NUMBER   *
           90001-99887
           * MODIFIED TO PROTECT CONFIDENTIALITY

ANG_LAD   CORONARY ANGIOGRAPHY, LEFT ANTERIOR DESCENDING   H2024B
           0 NO STENOTIC LESION
           1 TOTAL OCCLUSION
           2 GREATER THAN OR EQUAL 90% STENOSIS
           3 70-89% STENOSIS
           4 50-69% STENOSIS
           5 LESS THAN 50% STENOSIS
           6 SEVERE STENOSIS (WITHOUT NUMERICAL DATA)
           7 MODERATE STENOSIS
           8 MILD OR MINIMAL STENOSIS
           9 NOT DONE OR UNKNOWN (11363)

ANG_LC   CORONARY ANGIOGRAPHY, LEFT CIRCUMFLEX   H2024C
           0 NO STENOTIC LESION
           1 TOTAL OCCLUSION
           2 GREATER THAN OR EQUAL 90% STENOSIS
           3 70-89% STENOSIS
           4 50-69% STENOSIS
           5 LESS THAN 50% STENOSIS
           6 SEVERE STENOSIS (WITHOUT NUMERICAL DATA)
           7 MODERATE STENOSIS
           8 MILD OR MINIMAL STENOSIS
           9 NOT DONE OR UNKNOWN (11385)

ANG_LM   CORONARY ANGIOGRAPHY, LEFT MAIN   H2024A
           0 NO STENOTIC LESION
           1 TOTAL OCCLUSION
           2 GREATER THAN OR EQUAL 90% STENOSIS
           3 70-89% STENOSIS
           4 50-69% STENOSIS
           5 LESS THAN 50% STENOSIS
           6 SEVERE STENOSIS (WITHOUT NUMERICAL DATA)
           7 MODERATE STENOSIS
           8 MILD OR MINIMAL STENOSIS
           9 NOT DONE OR UNKNOWN (11439)

ANG_R   CORONARY ANGIOGRAPHY, RIGHT   H2024D

0 NO STENOTIC LESION
1 TOTAL OCCLUSION
2 GREATER THAN OR EQUAL 90% STENOSIS
3 70-89% STENOSIS
4 50-69% STENOSIS
5 LESS THAN 50% STENOSIS
6 SEVERE STENOSIS (WITHOUT NUMERICAL DATA)
7 MODERATE STENOSIS
8 MILD OR MINIMAL STENOSIS
9 NOT DONE OR UNKNOWN (11366)

AP   ANGINA PECTORIS   H2006A
            0 NO CHEST PAIN
            1 EPISODIC SUBSTERNAL CHEST PAIN OR DISCOMFORT
            2 SAME TYPE OF PAIN OCCURING AT REST
            3 SAME TYPE OF PAIN BOTH ON EXERTION AND AT REST
            4 DISCHARGE DIAGNOSIS OR DOCUMENTED HISTORY OF
               ANGINA WITH USE OF NITRATES
            8 CHEST PAIN SUGGESTIVE OF POSSIBLE ANGINA
            9 NO CLINICAL INFORMATION ON CHEST PAIN AVAILABLE (948)

APMO   AP MONTH   H2006B
            SET TO DOT (.) TO PROTECT CONFIDENTIALITY

APYR   AP YEAR   H2006B
            SET TO DOT (.) TO PROTECT CONFIDENTIALITY

ASSOC   ASSOCIATED CONDITION   H2017
            0 NO ASSOCIATED CONDITION PRESENT
            1 SEVERE BLEEDING USUALLY FROM G-I ORGANS
            2 MAJOR SURGERY
            3 MALIGNANCY
            4 PRECIPITATING CONDITIONS
            5 MIMIC
            6 TRAUMA
            7 SURGERY - BRAIN
            8 COMBINATION
            9 UNKNOWN (48)

BR_SC   BRAIN SCAN/CEREBRAL BLOOD, FLOW   H2020

0 NOT DONE
1 SDX: SCAN CONFIRMS CVA DIAGNOSIS
2 FDX: BLOOD FLOW CONFIRMS CVA DIAGNOSIS
3 SFDX: BOTH CONFIRM CVA DIAGNOSIS
4 S/O: SCAN SHOW OTHER ABNORMALITY
5 F/O: FLOW SHOWS OTHER ABNORMALITY
6 S&F/O: BOTH SHOW OTHER ABNORMALITY
7 ASSOC: ASSOCIATED CONDITION PRESENT
8 WNL: NORMAL TESTS
9 UNKNOWN (3741)

BYPASS   AORTO-CORONARY BYPASS GRAFTS   H2027
0 NOT DONE
1 ONE GRAFT
2 TWO GRAFTS
3 THREE GRAFTS
4 FOUR GRAFTS
5 FIVE GRAFTS
6 SIX OR MORE GRAFTS
9 UNKNOWN (4)

CARD_SC   CARDIAC SCAN   H2022
0 NEGATIVE
1 POSITIVE
2 DOUBTFUL
9 NOT DONE OR UNKNOWN (12233)

CHGMO   MONTH OF LAST CHANGE
SET TO DOT (.) TO PROTECT CONFIDENTIALITY

CHGYR   YEAR OF LAST CHANGE
 SET TO DOT (.) TO PROTECT CONFIDENTIALITY

CI   ACUTE CORONARY INSUFFICIENCY (CI)   H2005A
0 NO CI
1 DEFINITE CI
2 POSSIBLE CI
8 DOUBTFUL CI
9 NO INFORMATION AVAILABLE (15)

CIMO   CI MONTH   H2005B
 SET TO DOT (.) TO PROTECT CONFIDENTIALITY

CIYR   CI YEAR   H2005B

SET TO DOT (.) TO PROTECT CONFIDENTIALITY

CVA   CVA   H2007
0 NOT APPLICABLE
1 DEFINITE CVA
2 PROBABLE CVA
3 POSSIBLE CVA
4 DOUBTFUL CVA
5 DEFINITE CVA/NON-STUDY CRITERIA
6 PROBABLE CVA/NON-STUDY CRITERIA
7 POSSIBLE CVA/NON-STUDY CRITERIA
8 DOUBTFUL CVA/NON-STUDY CRITERIA
9 UNKNOWN (10)

CVAMO   CVA MONTH   H2015
SET TO DOT (.) TO PROTECT CONFIDENTIALITY

CVAYR   CVA YEAR   H2015
SET TO DOT (.) TO PROTECT CONFIDENTIALITY

CV_ANGIO CV ANGIOPRAPHY: INVASIVE/NONINVASIVE   H2019
INCLUDES ANGIOGRAPHY, MRA AND DUPLEX STUDIES
0 NORMAL
1 TOTAL OCCLUSION (96-100%)
2 PARTIAL OCCLUSION (STENOSIS UP TO 95%)
3 ANEURYSM
4 A-V MALFORMATION
5 INFARCTION
6 INTRACEREBRAL HEMATOMA
7 NONSPECIFIC ABNORMALITY (ALL SUBDURALS, DUPLEX WITH
  IRREGULARITY)
8 COMBINATION
9 NOT DONE OR RESULTS UNKNOWN (11802)

E   EMBOLIC CVA   H2009B
0 NOT APPLICABLE

        1 DEFINITE EMBOLISM
        2 PROBABLE EMBOLISM
        3 POSSIBLE EMBOLISM
        4 DOUBTFUL EMBOLISM
        5 DEFINITE EMBOLISM/NON-STUDY CRITERIA
        6 PROBABLE EMBOLISM/NON-STUDY CRITERIA
        7 POSSIBLE EMBOLISM/NON-STUDY CRITERIA
        8 DOUBTFUL EMBOLISM/NON-STUDY CRITERIA
        9 UNKNOWN (310)

ECHOCARD ECHOCARDIOGRAPHY   H2030
        0 NORMAL
        1 WALL MOTION ABNORMALITY
        2 DOUBTFUL FOR ISCHEMIC MYOCARDIAL DISEASE
        8 OTHER ABNORMALITIES
        9 NOT DONE OR UNKNOWN (11603)

FLAG
        0 OK
        1 ERROR
        2 CHANGED
        NO UNKNOWNS

HEM   INTRACRANIAL HEMORRHAGE   H2008
        0 NOT APPLICABLE
        1 DEFINITE INTRACRANIAL HEMORRHAGE
        2 PROBABLE INTRACRANIAL HEMORRHAGE
        3 POSSIBLE INTRACRANIAL HEMORRHAGE
        4 DOUBTFUL INTRACRANIAL HEMORRHAGE
        5 DEFINITE INTRACRANIAL HEMORRHAGE/NON-STUDY CRITERIA
        6 PROBABLE INTRACRANIAL HEMORRHAGE/NON-STUDY CRITERIA
        7 POSSIBLE INTRACRANIAL HEMORRHAGE/NON-STUDY CRITERIA
        8 DOUBTFUL INTRACRANIAL HEMORRHAGE/NON-STUDY CRITERIA
        9 UNKNOWN INTRACRANIAL HEMORRHAGE (475)

HOSP   HOSPITAL   H2002
        0-99
        NO UNKNOWNS

HOSPDY   HOSPITALIZATION DAY
        SET TO DOT (.) TO PROTECT CONFIDENTIALITY

HOSPMO   HOSPITALIZATION MONTH
        SET TO DOT (.) TO PROTECT CONFIDENTIALITY

HOSPYR   HOSPITALIZATION YEAR
SET TO DOT (.) TO PROTECT CONFIDENTIALITY

IC   INTRACEREBRAL HEMORRHAGE   H2008A
0 NOT APPLICABLE
1 DEFINITE INTRACEREBRAL HEMORRHAGE
2 PROBABLE INTRACEREBRAL HEMORRHAGE
3 POSSIBLE INTRACEREBRAL HEMORRHAGE
4 DOUBTFUL INTRACEREBRAL HEMORRHAGE
5 DEFINITE INTRACEREBRAL HEMORRHAGE/NON-STUDY CRITERIA
6 PROBABLE INTRACEREBRAL HEMORRHAGE/NON-STUDY CRITERIA
7 POSSIBLE INTRACEREBRAL HEMORRHAGE/NON-STUDY CRITERIA
8 DOUBTFUL INTRACEREBRAL HEMORRHAGE/NON-STUDY CRITERIA
9 UNKNOWN INTRACEREBRAL HEMORRHAGE (478)

LP   LUMBAR PUNCTURE   H2011
0 NOT APPLICABLE
1 NORMAL LP
2 ABNORMAL ATRAUMATIC LP
  (WITH INCREASED OPENING PRESSURE OF OVER 200MM)
3 ABNORMAL ATRAUMATIC LP (WITH NORMAL OPENING PRESSURE)
4 QUESTIONABLE TRAUMATIC LP
   (WITH INCREASED OPENING PRESSURE OVER 200 MM)
5 QUESTIONABLE TRAUMATIC LP
   (WITH NORMAL OPENING PRESSURE)
6 TRAUMATIC LP
  (WITH INCREASED OPENING PRESSURE OVER 200 MM)
7 TRAUMATIC LP (WITH NORMAL OPENING PRESSURE)
8 BLANK
9 UNKNOWN (40)

LP_OTH   LUMBAR PUNCTURE - OTHER ABNORMALITIES   H2013
0 NOT APPLICABLE
1 P+W+E(1) (PROTEIN, WBC AND ENZYMES ALL ABNORMAL)
2 P+W(1) (PROTEIN, WBC ALL ABNORMAL)

3 P+E(1)   (PROTEIN AND ENZYMES ALL ABNORMAL)
4 W+E(1) (WBC AND ENZYMES ALL ABNORMAL)
5 P   (PROTEIN ABNORMAL - OVER 45)
6 W   (WBC ABNORMAL)
7 E(1)   (ENZYMES ABNORMAL)
8 NORMAL
9 UNKNOWN (44)

LVENT   LEFT VENTRICULOGRAPHY   H2025
0 NORMAL
1 ANEURYSM
2 SEGMENTAL AKINESIS
3 SEGMENTAL HYPOKINESIS
4 RESTING AND DIASTOLIC PRESSURE > 15 MMHG
5 EJECTION FRACTION < 0.50
6 1, 2, OR 3 PLUS 4 OR 5
8 OTHER ABNORMAL OR DOUBTFUL FINDINGS
9 NOT DONE OR UNKNOWN (11488)

MIECG   MI BY ECG   H2004A
0 NO EVIDENCE OF MI
1 DEFINITE ACUTE MI
3 DEFINITE OLD (OR AGE UNDETERMINED) MI
4 DOUBTFUL ACUTE MI
5 ECG TEMPORAL CHANGES
6 INDETERMINABLE
8 PRESENCE OF DOUBTFUL OR POSSIBLE OLD MI
9 ECG NOT DONE (2843)

MIENZ   MI BY ENZYMES   H2004B`
0 ALL ENZYMES WITHIN THE UPPER LIMIT OF NORMAL
1 THE PEAK LEVEL OF ANY ANZYME (ESPECIALLY CPK) IS >= 2X
   NORMAL
2 THE PEAK LEVEL OF ENZYMES (ESPECIALLY CPK) EXCEDES THE
   UPPER NORMAL LIMIT, BUT NOT MORE THAN 2X NORMAL
8 THE ELEVATION OF ENZYMES EXCEEDING THE UPPER NORMAL
   LIMIT
9 ENZYMES WERE NOT MEASURED OR UNKNOWN (4602)

MILOC   MI LOCATION   H2004C
0 NO ABNORMAL Q-WAVE IN ANY LEAD
2 THE PRESENCE OF ABNORMAL Q/QS IN EXTENSIVE ANTERIOR OR
   ANTEROLATERAL LEADS
3 ABNORMAL Q/QS IN ANTERO-SEPTAL LEADS

4 ABNORMAL Q/QS IN INFERIOR LEADS
5 COMBINATION OF 2 OR 3 PLUS 4
7 THE PRESENCE OF R/S>1.0 WITH ST-T CHANGES
9 LOCATION UNKNOWN (2484)

MIMO   MI MONTH   H2004D
SET TO DOT (.) TO PROTECT CONFIDENTIALITY

MIYR   MI YEAR   H2004D
SET TO DOT (.) TO PROTECT CONFIDENTIALITY

NR_IMAGE NEUROIMAGERY   H2021
0 NOT DONE
1 SC: CONFIRMS STUDY CRITERIA STROKE
2 SNC: DOES NOT CONFIRM STUDY CRITERIA STROKE.
        THIS INCLUDES ALL SUBDURALS, MID AND NORMAL SCANS
3 SC/ASSOC: CONFIRMS CVA BUT STROKE DUE TO AN ASSOCIATED
        CONDITION
4 SC/PRIOR: CONFIRMS PRIOR STUDY CRITERIA STROKE WHICH WAS
        PREVIOUSLY DOCUMENTED
5 PROB/PRIOR: CONFIRMS PROBABLE PRIOR STUDY CRITERIA
        STROKE WHICH WAS NOT PREVIOUSLY DOCUMENTED
6 POSS/PRIOR: CONFIRMS POSSIBLE PRIOR STUDY CRITERIA STROKE
        WHICH WAS NOT PREVIOUSLY DOCUMENTED
7 SC/PNS: CONFIRMS PRIOR NON-STUDY CRITERIA STROKE
8 PC: POSSIBLY CONFIRMS NEW STUDY STROKE
9 UNKNOWN (3743)

OTH_EVID OTHER EVIDENCE   H2014
0 NOT APPLICABLE (NO OTHER TESTS PERFORMED, NON-
        CEREBROVASCULAR EVENT)
1 S+A+E(2) (BRAIN SCAN, ANGIOGRAPHY AND EEG ALL ABNORMAL)
2 S+A   (BRAIN SCAN AND ANGIOGRAPHY ALL ABNORMAL)
3 S+E(2)   (BRAIN SCAN AND EEG ALL ABNORMAL)

4 A+E(2)   (ANGIOGRAPHY AND EEG ALL ABNORMAL)
5 S   (BRAIN SCAN & RADIOISOTOPE FLOW STUDY ABNORMAL)
6 A   (ANGIOGRAPHY ABNORMAL)
7 E(2)   (EEG ABNORMAL)
8 NORMAL (ANY TESTS DONE AND RESULTS IN NORMAL RANGE. AN
           ABNORMAL RESULT IN CATEGORIES 1-7 PRECLUDES THE
           USE OF THIS CATEGORY)
9 UNKNOWN (35)

OTH_SURG OTHER CARDIAC SURGERY   H2028   *
           O NOT DONE
           1 CORONARY ANGIOPLASTY (PTCA)
           2 VENTRICULAR ANEURYSMECTOMY
           3 VALVULAR REPLACEMENT
           9 UNKNOWN (7117)
           * A value of 8 has been assigned the value 9

PRV_GRAF STATUS OF PREVIOUS GRAFTS   H2026
           0 NO PREVIOUS GRAFT PRESENT
           1 ALL GRAFTS PATENT
           2 SOME GRAFTS OCCLUDED
           3 ALL GRAFTS OCCLUDED PATENCY
           8 INDETERMINATE ON THE PATENCY OF PREVIOUS GRAFTS
           9 ANGIOGRAPHY NOT DONE OR UNKNOWN (7416)

RBC   RBC   H2012
           0 NOT APPLICABLE (NO LUMBAR PUNCTURE PERFORMED, NON-
             CEREBROVASCULAR EVENT)
           1 0-10   RBC
           2 11-25   RBC
           3 26-100   RBC
           4 101-500   RBC
           5 501-1000   RBC
           6 1001-2000   RBC
           7 2001-5000   RBC
           8 OVER 5000   RBC
           9 UNKNOWN (43)

RECID   RECORD ID
           SET TO DOT (.) TO PROTECT CONFIDENTIALITY

RIND_TCI   RIND OR TCI   H2010
           (REVERSIBLE ISCHEMIC NEUROLOGIC DEFICIT/TRANSIENT
            ISCHEMIC ATTACK)

0 NOT APPLICABLE (NOT RIND OR TIA EVENT, NON-
  CEREBROVASCULAR EVENT)
1 DEFINITE RIND
2 PROBABLE RIND
3 POSSIBLE RIND
4 DOUBTFUL RIND
5 PROBABLE TIA
6 POSSIBLE TIA
7 DOUBTFUL TIA
8 UNDETERMINED
9 UNKNOWN (28)

SA   SUBARACHNOID HEMORRHAGE   H2008B
0 NOT APPLICABLE
1 DEFINITE SUBARACHNOID HEMORRHAGE
2 PROBABLE SUBARACHNOID HEMORRHAGE
3 POSSIBLE SUBARACHNOID HEMORRHAGE
4 DOUBTFUL SUBARACHNOID HEMORRHAGE
5 DEFINITE SUBARACHNOID HEMORRHAGE/NON-STUDY CRITERIA
6 PROBABLE SUBARACHNOID HEMORRHAGE/NON-STUDY CRITERIA
7 POSSIBLE SUBARACHNOID HEMORRHAGE/NON-STUDY CRITERIA
8 DOUBTFUL SUBARACHNOID HEMORRHAGE/NON-STUDY CRITERIA
9 UNKNOWN (476)

SDNDUR   SUDDEN DEATH DURATION - IN HOURS   H2018A
0 NEGATIVE
1 LESS THAN 1
2 2-3
3 LESS THAN 3
4 3-6
5 LESS THEN 6
6 6-24
7 LESS THEN 24
8 GREATER THAN 24
9 UNKNOWN (10)

SD_UW   SUDDEN DEATH UNWITNESSED DEATH - IN HOURS   H2018B
0 NEGATIVE
1 LESS THAN 1
2 2-3
3 LESS THAN 3
4 3-6
5 LESS THEN 6

6 6-24
7 LESS THEN 24
8 GREATER THAN 24
9 UNKNOWN (10)

STATUS   STATUS AT DISCHARGE   H2016
0 ALIVE
1 EXPIRED OR DEAD ON DISCHARGE
2 ALIVE WITH DIAGNOSIS OF CHD DUE TO ASSOCIATED CONDITION
3 ALIVE WITH DIAGNOSIS OF CVA DUE TO ASSOCIATED CONDITION
4 ALIVE WITH DIAGNOSIS OF CHD + CVA DUE TO ASSOCIATED
  CONDITION
5 EXPIRED WITH DIAGNOSIS OF CHD DUE TO ASSOCIATED
  CONDITION
6 EXPIRED WITH DIAGNOSIS OF CVA DUE TO ASSOCIATED
  CONDITION
7 EXPIRED WITH DIAGNOSIS OF CHD + CVA DUE TO ASSOCIATED
  CONDITION
8 ALIVE WITH DIAGNOSIS OF CHD AND/OR CVA AND EXISTENCE OF
  ASSOCIATED CONDITION IS SUSPECTED BUT UNCONFIRMED
9 EXPIRED WITH DIAGNOSIS OF CHD AND/OR CVA AND EXISTENCE
  OF ASSOCIATED CONDITION IS SUSPECTED BUT UNCONFIRMED

SURGMO   SURGERY MONTH   H2029
SET TO DOT (.) TO PROTECT CONFIDENTIALITY

SURGYR   SURGERY YEAR   H2029
SET TO DOT (.) TO PROTECT CONFIDENTIALITY

T   THROMBOTIC CVA H2009A
0 NOT APPLICABLE
1 DEFINITE THROMBOSIS
2 PROBABLE THROMBOSIS
3 POSSIBLE THROMBOSIS
4 DOUBTFUL THROMBOSIS
5 DEFINITE THROMBOSIS/NON-STUDY CRITERIA
6 PROBABLE THROMBOSIS/NON-STUDY CRITERIA

7 POSSIBLE THROMBOSIS/NON-STUDY CRITERIA
8 DOUBTFUL THROMBOSIS/NON-STUDY CRITERIA
9 UNKNOWN (171)

TE   THROMBO-EMBOLIC CVA   H2009
0 NOT APPLICABLE
1 DEFINITE THROMBO-EMBOLIC CVA
2 PROBABLE THROMBO-EMBOLIC CVA
3 POSSIBLE THROMBO-EMBOLIC CVA
4 DOUBTFUL THROMBO-EMBOLIC CVA
5 DEFINITE THROMBO-EMBOLIC CVA/NON-STUDY CRITERIA
6 PROBABLE THROMBO-EMBOLIC CVA/NON-STUDY CRITERIA
7 POSSIBLE THROMBO-EMBOLIC CVA/NON-STUDY CRITERIA
8 DOUBTFUL THROMBO-EMBOLIC CVA/NON-STUDY CRITERIA
9 UNKNOWN (159)

TRD_MILL TREADMILL TEST H2023
0 NEGATIVE
1 POSITIVE (ST ! >= 1 MM, OR CHEST PAIN DEVELOPED)
2 DOUBTFUL
9 NOT DONE OR UNKNOWN (11858)

IDAYSAP   INTERVAL IN DAYS BETWEEN EXAM1 AND AP DATE   *
- 4572 - 11611
. UNKNOWN (13402)
*DURING IDAYSAP COMPUTATION, DAY WAS SET TO 1

IDAYSCI   INTERVAL IN DAYS BETWEEN EXAM1 AND CI DATE   *
- 7052 - 11871
. UNKNOWN (113525)
*DURING IDAYSCI COMPUTATION, DAY WAS SET TO 1

IDAYSCVA INTERVAL IN DAYS BETWEEN EXAM1 AND CVA DATE   *
- 6950 - 11885
. UNKNOWN (11638)
*DURING IDAYSCVA COMPUTATION, DAY WAS SET TO 1

IDAYSHOS INTERVAL IN DAYS BETWEEN EXAM1 AND HOSPITAL DATE
- 7050 - 12095
. UNKNOWN (101)

IDAYSMI   INTERVAL IN DAYS BETWEEN EXAM1 AND MI DATE   *
            - 6496 - 12051
             .   UNKNOWN (11752)
          *DURING IDAYSMI COMPUTATION, DAY WAS SET TO 1

IDAYSURG INTERVAL IN DAYS BETWEEN EXAM1 AND SURGERY DATE   *
            1094 - 11870
             .   UNKNOWN (13540)
          *DURING IDAYSURG COMPUTATION, DAY WAS SET TO 1