



Office of Statewide Health
Planning and Development

FORMAT and FILE SPECIFICATIONS

**California Coronary Artery Bypass Graft (CABG)
Outcomes Reporting Program
(CCORP)**

Version 8.3

Released on June 29, 2020

**Effective for DISCHARGES occurring
on or after July 1, 2020**



FORMAT AND FILE SPECIFICATIONS V 8.3
FOR ONLINE TRANSMISSION

CCCORRP

FORMAT AND FILE SPECIFICATIONS V 8.3 FOR ONLINE TRANSMISSION

MINIMUM PC CONFIGURATION

1. Access to a personal computer (with the following minimum configuration)
 - High speed Internet connection (preferred)
 - Microsoft Internet Explorer version 11 (or higher), Microsoft Edge, Firefox, or Chrome
 - Adobe Acrobat Reader version 7.0 (or higher)
 - Virus Checking Software

2. E-mail

STANDARD RECORD FORMAT

Deviation from the format will not be accepted

- One reporting facility and time period per file
- Standard ASCII character coding
- Record length 239 characters

ADDITIONAL REQUIREMENTS

- The data file *must* be a text file with the extension of ".txt"
- No packed or binary data

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Standard Record Format

Data Element	Start	End	Type	& Size
Medical Record Number	1	12	A/N	(12)
Type of CABG	13	13	N	(1)
Date of Surgery	14	21	N	(8)
Date of Birth	22	29	N	(8)
Patient Age	30	32	N	(3)
Sex	33	33	N	(1)
Primary Payor	34	35	N	(2)
Secondary (Supplemental) Payor	36	37	N	(2)
Race Documented	38	38	N	(1)
Race - White	39	39	N	(1)
Race - Black/African American	40	40	N	(1)
Race - Asian	41	41	N	(1)
Race - American Indian/Alaskan Native	42	42	N	(1)
Race - Native Hawaiian/Pacific Islander	43	43	N	(1)
Race - Other	44	44	N	(1)
Hispanic or Latino or Spanish Ethnicity	45	45	N	(1)
Hospital Discharge Date	46	53	N	(8)
Status at Hospital Discharge	54	54	N	(1)
Patient Transfer to Another Acute Care Hospital	55	55	N	(1)
Patient Transfer to Acute Care Hospital Date	56	63	N	(8)
Mortality Date	64	71	N	(8)
Mort-Status at 30 Days After Surgery (either discharged or in-hospital)	72	72	N	(1)
Responsible Surgeon Name:				
Last Name	73	97	A	(25)
First Name	98	117	A	(20)
Middle Initial	118	118	A	(1)
Responsible Surgeon CA License Number	119	127	A/N	(9)
Height (cm)	128	131	N	(4)
Weight (kg)	132	135	N	(4)
Diabetes	136	136	N	(1)
Diabetes Control	137	137	N	(1)
Dialysis	138	138	N	(1)
Hypertension	139	139	N	(1)
Endocarditis	140	140	N	(1)
Infectious Endocarditis Type	141	141	N	(1)
Chronic Lung Disease	142	142	N	(1)
Pneumonia	143	143	N	(1)
Liver Disease	144	144	N	(1)
Immunocompromised Present	145	145	N	(1)
COVID-19	146	147	N	(2)
Cancer within 5 years	148	148	N	(1)
Peripheral Artery Disease	149	149	N	(1)
Cerebrovascular Disease	150	150	N	(1)
Prior CVA	151	151	N	(1)
Prior CVA - When	152	152	N	(1)
CVD TIA	153	153	N	(1)
CVD Carotid Stenosis	154	154	N	(1)

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Data Element (cont'd)	Start	End	Type	& Size
CVD Carotid Stenosis – Right	155	155	N	(1)
CVD Carotid Stenosis – Left	156	156	N	(1)
CVD Prior Carotid Surgery	157	157	N	(1)
Last Creatinine Level	158	161	N	(4)
Total Albumin	162	165	N	(4)
Total Bilirubin	166	169	N	(4)
INR	170	173	N	(4)
Sodium	174	177	N	(4)
Previous CABG	178	178	N	(1)
Previous Valve	179	179	N	(1)
Previous PCI	180	180	N	(1)
Previous PCI - Interval	181	181	N	(1)
Prior MI	182	182	N	(1)
MI – When	183	183	N	(1)
Heart Failure	184	184	N	(1)
Heart Failure Timing	185	185	N	(1)
Classification - NYHA	186	186	N	(1)
Cardiogenic Shock	187	187	N	(1)
Resuscitation	188	188	N	(1)
Cardiac Arrhythmia	189	189	N	(1)
Cardiac Arrhythmia – VTach/VFib	190	190	N	(1)
Cardiac Arrhythmia – AFlutter	191	191	N	(1)
Cardiac Arrhythmia – Third Degree Heart Block	192	192	N	(1)
Cardiac Arrhythmia – Atrial Fibrillation	193	193	N	(1)
Atrial Fibrillation- Type	194	194	N	(1)
Warfarin Use (within 5 days)	195	195	N	(1)
Coronary Anatomy/Disease Known	196	196	N	(1)
Number Diseased Vessels	197	197	N	(1)
Left Main Stenosis >= 50% Known	198	198	N	(1)
Hemo Data EF Done	199	199	N	(1)
Hemo Data EF	200	202	N	(3)
PA Systolic Pressure Measured	203	203	N	(1)
PA Systolic Pressure	204	207	N	(4)
Mitral Valve Regurgitation	208	208	N	(1)
Mitral Regurgitation	209	209	N	(1)
Incidence	210	210	N	(1)
Status	211	211	N	(1)
Urgent /Emergent /Emergent Salvage Reason	212	213	N	(2)
Perfusion Strategy	214	214	N	(1)
CPB Utilization Combination Plan	215	215	N	(1)
Internal Mammary Artery Used	216	216	N	(1)
Reason for No IMA	217	217	N	(1)
Valve	218	218	N	(1)
Aortic Valve	219	219	N	(1)
Aortic Valve Procedure	220	220	N	(1)
Mitral Valve	221	221	N	(1)
Mitral Valve Procedure	222	222	N	(1)
Tricuspid Valve	223	223	N	(1)
Pulmonic Valve	224	224	N	(1)
Reoperation for Bleed/Tamponade	225	225	N	(1)

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Data Element (cont'd)	Start	End	Type & Size
Unplanned Coronary Artery Intervention	226	226	N (1)
Unplanned Coronary Artery Intervention-Vessel	227	227	N (1)
Deep Sternal	228	228	N (1)
Neuro- Stroke Permanent	229	229	N (1)
Pulm – Ventilation Prolonged	230	230	N (1)
Renal – Renal Failure	231	231	N (1)
Renal – Dialysis Requirement	232	232	N (1)
Other – A Fib	233	233	N (1)
Facility Identification Number	234	239	N (6)

FOOTNOTES

1. Type & Size indicate data type and length (in parentheses). Data type is defined as:
A = Alpha
N = Numeric
A/N = Alphanumeric

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Data Fields

MEDICAL RECORD NUMBER

Record Position: 1 through 12
Data Length: 12
Data Type: Alphanumeric
Harvest Codes: N/A
Special Instructions: This field must not be blank
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 85
Coding Classification: Demographics

TYPE OF CABG

Record Position: 13
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Isolated;
3 = CABG + Valve;
4 = Other Non-Isolated CABG
Special Instructions: This field must not be blank
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: N/A; **CCORP-specific variable**
Coding Classification: Operative

DATE OF SURGERY

Record Position: 14 through 21
Data Length: 8
Data Type: Numeric
Harvest Codes: 09 09 9999
Month Day Year
Special Instructions: 1. This field must not be blank
2. Single-digit months and days must include a preceding zero
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 310
Coding Classification: Hospitalization

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DATE OF BIRTH

Record Position: 22 through 29
Data Length: 8
Data Type: Numeric
Harvest Codes: 09 09 9999
Month Day Year
Special Instructions: Single-digit months and days *must* include a preceding zero
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 65
Coding Classification: Demographics

PATIENT AGE

Record Position: 30 through 32
Data Length: 3
Data Type: Numeric
Harvest Codes: N/A
Special Instructions: **Do not submit CABG for patients <18 yrs old**
Range: 18 – 100; low = 18, high = 110
Parent/Child Relationship: N/A
STS Sequence Number: 70
Coding Classification: Demographics

SEX

Record Position: 33
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Male;
2 = Female
Special Instructions: This field *must not* be blank
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 75
Coding Classification: Demographics

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PRIMARY PAYOR

Record Position: 34 through 35
Data Length: 2
Data Type: Numeric
Harvest Codes: 1 = Non/Self;
2 = Medicare;
3 = Medicaid;
4 = Military Health
9 = Commercial Health Insurance;
10 = Health Maintenance Organization;
11 = Non-U.S. Plan;
13 = Other
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 291
Coding Classification: Hospitalization

SECONDARY (SUPPLEMENTAL) PAYOR

Record Position: 36 through 37
Data Length: 2
Data Type: Numeric
Harvest Codes: 1 = Non/Self;
2 = Medicare;
3 = Medicaid;
4 = Military Health
9 = Commercial Health Insurance;
10 = Health Maintenance Organization;
11 = Non-U.S. Plan;
13 = Other
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 298
Coding Classification: Hospitalization

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RACE DOCUMENTED

Record Position: 38
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Patient Declined to Disclose
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 150
Coding Classification: Demographics

RACE – WHITE

Record Position: 39
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Race Documented" = 1 (Yes); sequence #150
STS Sequence Number: 151
Coding Classification: Demographics

RACE – BLACK/AFRICAN AMERICAN

Record Position: 40
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Race Documented" = 1 (Yes); sequence #150
STS Sequence Number: 151
Coding Classification: Demographics

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RACE – ASIAN

Record Position: 41
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Race Documented" = 1 (Yes); sequence #150
STS Sequence Number: 151
Coding Classification: Demographics

RACE – AMERICAN INDIAN/ALASKAN NATIVE

Record Position: 42
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Race Documented" = 1 (Yes); sequence #150
STS Sequence Number: 151
Coding Classification: Demographics

RACE – NATIVE HAWAIIAN/PACIFIC ISLANDER

Record Position: 43
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Race Documented" = 1 (Yes); sequence #150
STS Sequence Number: 151
Coding Classification: Demographics

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RACE – OTHER

Record Position: 44
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Race Documented" = 1 (Yes); sequence #150
STS Sequence Number: 151
Coding Classification: Demographics

HISPANIC OR LATINO OR SPANISH ETHNICITY

Record Position: 45
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Not Documented
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 185
Coding Classification: Demographics

HOSPITAL DISCHARGE DATE

Record Position: 46 through 53
Data Length: 8
Data Type: Numeric
Harvest Codes: 99 99 9999
Month Day Year
Special Instructions: 1. This field must not be blank
2. Single-digit months and days must include a preceding zero
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 7006
Coding Classification: Discharge / Mortality

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STATUS AT HOSPITAL DISCHARGE

Record Position: 54
Data Length: 1
Data Type: Numeric
Harvest Codes: 2 = Died in Hosp;
3 = Discharged Alive, Last Known Status Alive
(Other than Hospice) ;
4 = Discharged Alive, died after discharge ;
5 = Discharged to Hospice
Special Instructions: This field must not be blank
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: **7007**
Coding Classification: Discharge / Mortality

PATIENT TRANSFER TO ANOTHER ACUTE CARE HOSPITAL

Record Position: 55
Data Length: 1
Data Type: Numeric
Harvest Codes: 1= Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: **7003**
Coding Classification: Discharge / Mortality

PATIENT TRANSFER TO ACUTE CARE HOSPITAL- DATE

Record Position: 56 through 63
Data Length: 8
Data Type: Numeric
Harvest Codes: 99 99 9999
Month Day Year
Special Instructions: Single-digit months and days must include a preceding zero
Range: N/A
Parent/Child Relationship: "Patient Transfer to Another Acute Care Hospital"=1 (yes) seq# 7003
STS Sequence Number: **7004**
Coding Classification: Discharge / Mortality

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MORTALITY DATE

Record Position: 64 through 71
Data Length: 8
Data Type: Numeric
Harvest Codes: 99 99 9999
Month Day Year
Special Instructions: Single-digit months and days *must* include a preceding zero
Range: N/A
Parent/Child Relationship: "Status at Hospital Discharge" = 2 (Expired in Hospital);
sequence 7007
STS Sequence Number: **7121**
Coding Classification: Discharge / Mortality

MORT - STATUS AT 30 DAYS AFTER SURGERY (EITHER DISCHARGED OR IN - HOSPITAL)

Record Position: 72
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Alive;
2 = Dead
3 = Unknown
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: **7001**
Coding Classification: Discharge / Mortality

RESPONSIBLE SURGEON NAME – LAST

Record Position: 73 through 97
Data Length: 25
Data Type: Alpha
Harvest Codes: N/A
Special Instructions: 1. This field *must not* be blank
2. Do not code titles such as "Junior", "Jr.", or "II"
3. Do not use special characters except hyphen (-)
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: N/A; **CCORP-specific variable**
Coding Classification: Operative

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RESPONSIBLE SURGEON NAME – FIRST

Record Position: 98 through 117
Data Length: 20
Data Type: Alpha
Harvest Codes: N/A
Special Instructions: This field *must not* be blank
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: N/A; **CCORP-specific variable**
Coding Classification: Operative

RESPONSIBLE SURGEON NAME – MIDDLE INITIAL

Record Position: 118
Data Length: 1
Data Type: Alpha
Harvest Codes: N/A
Special Instructions: 1. *Must be provided* if middle name is noted on license issued from California Medical Board
2. No special characters ex: (.)
3. *To verify a middle initial go to:*
Physicians www.mbc.ca.gov/Breeze/License_Lookup.aspx
and Osteopaths directly from Dept of Consumer Affairs
<https://search.dca.ca.gov/>
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: N/A; **CCORP-specific variable**
Coding Classification: Operative

RESPONSIBLE SURGEON CA LICENSE NUMBER

Record Position: 119 through 127
Data Length: 9
Data Type: Alphanumeric
Harvest Codes: N/A
Special Instructions: 1. This field *must not* be blank
2. *To verify a license go to:*
www.mbc.ca.gov/Breeze/License_Lookup.aspx and
Osteopaths directly from Dept of Consumer Affairs
<https://search.dca.ca.gov/>
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: N/A; **CCORP-specific variable**
Coding Classification: Operative

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HEIGHT (cm)

Record Position: 128 through 131
Data Length: 4
Data Type: Numeric
Harvest Codes: N/A
Special Instructions: 1. Measured in centimeters
2. Do not code decimal (implied)
Range: 122.0 – 213.0; low = 20.0, high = 251.0
Parent/Child Relationship: N/A
STS Sequence Number: 330
Coding Classification: Risk Factors

WEIGHT (kg)

Record Position: 132 through 135
Data Length: 4
Data Type: Numeric
Harvest Codes: N/A
Special Instructions: 1. Measured in kilograms
2. Do not code decimal (implied)
Range: 30.0 – 181.8; low = 10.0, high = 250.0
Parent/Child Relationship: N/A
STS Sequence Number: 335
Coding Classification: Risk Factors

DIABETES

Record Position: 136
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Unknown
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 360
Coding Classification: Risk Factors

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DIABETES CONTROL

Record Position: 137
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = None;
2 = Diet only;
3 = Oral;
4 = Insulin;
5 = Other;
6 = Other subcutaneous medication;
7 = Unknown
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Diabetes" = 1 (Yes); sequence #360
STS Sequence Number: 365
Coding Classification: Risk Factors

DIALYSIS

Record Position: 138
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Unknown
Special Instructions: 1. This field *must not* be blank
2. If 'Yes', Postop Renal– Dialysis Requirement field must be coded 2 (No)
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 375
Coding Classification: Risk Factors

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HYPERTENSION

Record Position: 139
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Unknown
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 380
Coding Classification: Risk Factors

ENDOCARDITIS

Record Position: 140
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 385
Coding Classification: Risk Factors

INFECTIOUS ENDOCARDITIS TYPE

Record Position: 141
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Treated;
2 = Active
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Endocarditis" = 1 (Yes); sequence #385
STS Sequence Number: 390
Coding Classification: Risk Factors

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CHRONIC LUNG DISEASE

Record Position: 142
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = No;
2 = Mild;
3 = Moderate;
4 = Severe;
5 = Lung disease documented, severity unknown;
6 = Unknown
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 405
Coding Classification: Risk Factors

PNEUMONIA

Record Position: 143
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = No
2 = Recent
3 = Remote
4 = Unknown
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 465
Coding Classification: Risk Factors

LIVER DISEASE

Record Position: 144
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Unknown
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 485
Coding Classification: Risk Factors

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IMMUNOCOMPROMISED PRESENT

Record Position: 145
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Unknown
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 492
Coding Classification: Risk Factors

COVID-19

Record Position: 146 through 147
Data Length: 2
Data Type: Numeric
Harvest Codes: 10 = No ;
11 = Yes, prior to hospitalization for this surgery;
12 = Yes, in hospital prior to surgery;
13 = Yes, in hospital after surgery;
14 = Yes, After discharge w/in 30 days of surgery.
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: TempCode 7230
Coding Classification:

CANCER WITHIN 5 YEARS

Record Position: 148
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Unknown
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 500
Coding Classification: Risk Factors

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PERIPHERAL ARTERY DISEASE

Record Position: 149
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Unknown
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 505
Coding Classification: Risk Factors

CEREBROVASCULAR DISEASE

Record Position: 150
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Unknown
Special Instructions: 1. If "2" then ALL CHILD fields *must* be blank.
2. If "1" then **at least one** of the CVD CHILD fields should be coded as 1=Yes: Prior CVA, CVD TIA, CVD Prior Carotid Surgery, or CVD Carotid Stenosis = 2,3,or 4.
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 525
Coding Classification: Risk Factors

PRIOR CVA

Record Position: 151
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Unknown
Special Instructions: If "1" then Prior CVA – When *must* be specified
Range: N/A
Parent/Child Relationship: "Cerebrovascular Disease" = 1 (Yes); sequence #525
STS Sequence Number: 530
Coding Classification: Risk Factors

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PRIOR CVA – WHEN

Record Position: 152
Data Length: 1
Data Type: Numeric
Harvest Codes: 3 = Recent (<= 30 days);
4 = Remote (> 30 days)
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Prior CVA" = 1 (Yes); sequence #530
STS Sequence Number: 535
Coding Classification: Risk Factors

CVD TIA

Record Position: 153
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Unknown
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Cerebrovascular Disease" = 1 (Yes); sequence #525
STS Sequence Number: 540
Coding Classification: Risk Factors

CVD CAROTID STENOSIS

Record Position: 154
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = None;
2 = Right;
3 = Left;
4 = Both;
5 = Not Documented
Special Instructions: If "2, 3 or 4", CVD Carotid Stenosis Right and/or Left fields *must* be specified
Range: N/A
Parent/Child Relationship: "Cerebrovascular Disease" = 1 (Yes); sequence #525
STS Sequence Number: 545
Coding Classification: Risk Factors

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CVD CAROTID STENOSIS – RIGHT

Record Position: 155
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = 80-99%
2 = 100%
3 = 50-79%
4 = Not Documented
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "CVD Carotid Stenosis" = 2 (Right) or 4 (Both); sequence #545
STS Sequence Number: 550
Coding Classification: Risk Factors

CVD CAROTID STENOSIS – LEFT

Record Position: 156
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = 80-99%
2 = 100%
3 = 50-79%
4 = Not Documented
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "CVD Carotid Stenosis" = 3 (Left) or 4 (Both); sequence #545
STS Sequence Number: 555
Coding Classification: Risk Factors

CVD PRIOR CAROTID SURGERY

Record Position: 157
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes; 2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Cerebrovascular Disease" = 1 (Yes); sequence #525
STS Sequence Number: 560
Coding Classification: Risk Factors

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LAST CREATININE LEVEL

Record Position: 158 through 161
Data Length: 4
Data Type: Numeric
Harvest Codes: N/A
Special Instructions: Do not code decimal.
Range: 0.10 – 12.00; low = 0.10, high = 30.00
Parent/Child Relationship: N/A
STS Sequence Number: 605
Coding Classification: Risk Factors

TOTAL ALBUMIN

Record Position: 162 through 165
Data Length: 4
Data Type: Numeric
Harvest Codes: N/A
Special Instructions: Do not code decimal (implied)
Range: 3.50 – 5.00; low = 1.00, high = 10.00
Parent/Child Relationship: N/A
STS Sequence Number: 585
Coding Classification: Risk Factors

TOTAL BILIRUBIN

Record Position: 166 through 169
Data Length: 4
Data Type: Numeric
Harvest Codes: N/A
Special Instructions: Do not code decimal (implied).
Range: 0.20 – 1.30; low = 0.10, high = 50.00
Parent/Child Relationship: N/A
STS Sequence Number: 610
Coding Classification: Risk Factors

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INR

Record Position: 170 through 173
Data Length: 4
Data Type: Numeric
Harvest Codes: N/A
Special Instructions: Do not code decimal (implied)
Range: 0.90 – 1.30; low = 0.50, high = 30.00
Parent/Child Relationship: N/A
STS Sequence Number: 615
Coding Classification: Risk Factors

SODIUM

Record Position: 174 through 177
Data Length: 4
Data Type: Numeric
Harvest Codes: N/A
Special Instructions: Do not code decimal (implied)
Range: 130.0-145.0; low = 30.0, high = 200.0
Parent/Child Relationship: N/A
STS Sequence Number: 600
Coding Classification: Risk Factors

PREVIOUS CABG

Record Position: 178
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: Nulls must be filled with "2" (No)
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 670
Coding Classification: Previous Cardiac Interventions

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PREVIOUS VALVE

Record Position: 179
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 675
Coding Classification: Previous Cardiac Interventions

PREVIOUS PCI

Record Position: 180
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: 1. This field must not be blank
2. Nulls must be filled with "2" (No)
3. If "1" Previous PCI Interval must be specified
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 775
Coding Classification: Previous Cardiac Interventions

PREVIOUS PCI – INTERVAL

Record Position: 181
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = <= 6 Hours;
2 = > 6 Hours
Special Instructions: If Previous PCI is "2" then this field must be blank
Range: N/A
Parent/Child Relationship: "Previous PCI" = 1 (Yes); sequence #775
STS Sequence Number: 800
Coding Classification: Previous Cardiac Interventions

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PRIOR MI

Record Position: 182
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Unknown
Special Instructions: If "1" MI When field *must not* be blank
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 885
Coding Classification: Preoperative Cardiac Status

MI – WHEN

Record Position: 183
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = <=6 Hrs
2 = >6 Hrs but <24 Hrs
3 = 1 to 7 Days
4 = 8 to 21 Days
5 = >21 Days
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Prior MI" = 1; sequence #885
STS Sequence Number: 890
Coding Classification: Preoperative Cardiac Status

HEART FAILURE

Record Position: 184
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Unknown
Special Instructions: If "1" Classification – NYHA field must be specified
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 911
Coding Classification: Preoperative Cardiac Status

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HEART FAILURE TIMING

Record Position: 185
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Acute;
2 = Chronic;
3 = Both
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Heart Failure" = 1; sequence #911
STS Sequence Number: 912
Coding Classification: Preoperative Cardiac Status

CLASSIFICATION – NYHA

Record Position: 186
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Class I
2 = Class II
3 = Class III
4 = Class IV
5 = Not Documented
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Heart Failure" = 1 (Yes); sequence #911
STS Sequence Number: 915
Coding Classification: Preoperative Cardiac Status

CARDIOGENIC SHOCK

Record Position: 187
Data Length: 1
Data Type: Numeric
Harvest Codes: 2 = No
3 = Yes, at the time of procedure
4 = Yes, not at the time of procedure, but within prior 24 hours
Special Instructions: All cases coded Cardiogenic shock = 3 or 4 will require substantiating documentation be faxed or uploaded in CORC.
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 930
Coding Classification: Preoperative Cardiac Status

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RESUSCITATION

Record Position: 188
Data Length: 1
Data Type: Numeric
Harvest Codes: 2 = No
3 = Yes, within 1 hour of the start of the procedure
4 = Yes, more than 1 hour, but less than 24 hours of the start of the procedure
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 935
Coding Classification: Preoperative Cardiac Status

CARDIAC ARRHYTHMIA

Record Position: 189
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 945
Coding Classification: Preoperative Cardiac Status

CARDIAC ARRHYTHMIA – VTACH/VFIB

Record Position: 190
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = None;
2 = Remote (> 30 days);
3 = Recent (<=30 days)
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Cardiac Arrhythmia" = 1 (Yes); sequence #945
STS Sequence Number: 950
Coding Classification: Preoperative Cardiac Status

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CARDIAC ARRHYTHMIA – AFLUTTER

Record Position: 191
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = None;
2 = Remote (> 30 days);
3 = Recent (<=30 days)
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Cardiac Arrhythmia" = 1 (Yes); sequence #945
STS Sequence Number: 960
Coding Classification: Preoperative Cardiac Status

CARDIAC ARRHYTHMIA – THIRD DEGREE HEART BLOCK

Record Position: 192
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = None;
2 = Remote (> 30 days);
3 = Recent (<=30 days)
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Cardiac Arrhythmia" = 1 (Yes); sequence #945
STS Sequence Number: 970
Coding Classification: Preoperative Cardiac Status

CARDIAC ARRHYTHMIA – ATRIAL FIBRILLATION

Record Position: 193
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = None;
2 = Remote (> 30 days);
3 = Recent (<=30 days)
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Cardiac Arrhythmia" = 1 (Yes); sequence #945
STS Sequence Number: 961
Coding Classification: Preoperative Cardiac Status

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ATRIAL FIBRILLATION- TYPE

Record Position: 194
Data Length: 1
Data Type: Numeric
Harvest Codes: 2 = Paroxysmal;
4 = Persistent
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Cardiac Arrhythmia – Atrial Fibrillation" = 2 or 3; sequence #961
STS Sequence Number: 971
Coding Classification: Preoperative Cardiac Status

WARFARIN USE (within 5 days)

Record Position: 195
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = Unknown
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 1091
Coding Classification: Preoperative Medications

CORONARY ANATOMY/ DISEASE KNOWN

Record Position: 196
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 1155
Coding Classification: Hemodynamics / Cath / Echo

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NUMBER DISEASED VESSELS

Record Position: 197
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = None
2 = One
3 = Two
4 = Three
Special Instructions: Left main disease ($\geq 50\%$) is counted as Two vessels (LAD and Circumflex)
Range: N/A
Parent/Child Relationship: "Coronary Anatomy/Disease Known" =1 (Yes); sequence 1155
STS Sequence Number: 1170
Coding Classification: Hemodynamics / Cath / Echo

LEFT MAIN STENOSIS $\geq 50\%$ KNOWN

Record Position: 198
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No;
3 = N/A
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 1174
Coding Classification: Hemodynamics / Cath / Echo

HEMO DATA EF DONE

Record Position: 199
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 1540
Coding Classification: Hemodynamics / Cath / Echo

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HEMO DATA EF

Record Position: 200 through 202
Data Length: 3
Data Type: Numeric
Harvest Codes: N/A
Special Instructions: Do not code decimal (implied)
Range: 5.0 – 90.0; low = 1.0, high = 99.0
Parent/Child Relationship: “Ejection Fraction Done” = 1 (Yes); sequence #1540
STS Sequence Number: 1545
Coding Classification: Hemodynamics / Cath / Echo

PA SYSTOLIC PRESSURE MEASURED

Record Position: 203
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 1570
Coding Classification: Hemodynamics / Cath / Echo

PA SYSTOLIC PRESSURE

Record Position: 204 through 207
Data Length: 4
Data Type: Numeric
Harvest Codes: N/A
Special Instructions: Do not code decimal (implied)
Range: 15.0 – 40.0; low = 10.0, high = 150.0
Parent/Child Relationship: “PA Systolic Pressure Measured” = 1 (Yes); sequence #1570
STS Sequence Number: 1575
Coding Classification: Hemodynamics / Cath / Echo

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MITRAL VALVE REGURGITATION

Record Position: 208
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 1679
Coding Classification: Hemodynamics / Cath / Echo

MITRAL REGURGITATION

Record Position: 209
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Trivial/Trace;
2 = Mild;
3 = Moderate;
4 = Severe;
5 = Not documented
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Mitral Valve Regurgitation" = 1 (Yes) Seq# 1679
STS Sequence Number: 1680
Coding Classification: Hemodynamics / Cath / Echo

INCIDENCE

Record Position: 210
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = First cardiovascular surgery
2 = First re-op cardiovascular surgery
3 = Second re-op cardiovascular surgery
4 = Third re-op cardiovascular surgery
5 = Fourth or more re-op cardiovascular surgery
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 1970
Coding Classification: Operative

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STATUS

Record Position: 211
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Elective
2 = Urgent
3 = Emergent
4 = Emergent Salvage
Special Instructions: This field *must not* be blank
All Cases coded Status = 4 must fax or upload in CORC
substantiating documentation.
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 1975
Coding Classification: Operative

URGENT / EMERGENT / EMERGENT SALVAGE REASON

Record Position: 212 through 213
Data Length: 2
Data Type: Numeric
Harvest Codes: 1 = AMI
2 = Anatomy
3 = Aortic Aneurysm
4 = Aortic Dissection
5 = CHF
6 = Device Failure
7 = Diagnostic/Interventional Procedure Complication
8 = Endocarditis
10 = IABP
11 = Infected Device
12 = Intracardiac mass or thrombus
13 = Ongoing Ischemia
14 = PCI Incomplete without Clinical Deterioration
15 = PCI or attempted PCI with Clinical Deterioration
16 = Pulmonary Edema
17 = Pulmonary Embolus
18 = Rest Angina
19 = Shock Circulatory Support
20 = Shock No Circulatory Support
21 = Syncope
22 = Transplant
23 = Trauma
24 = USA
25 = Valve Dysfunction
26 = Worsening CP

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27 = Other
28 = Failed Transcatheter Valve Therapy-
Acute Annular Disruption
29 = Failed Transcatheter Valve Therapy-
Acute Device Malposition
30 = Failed Transcatheter Valve Therapy –
Subacute Device Dysfunction

Special Instructions: If Status is “2” (Urgent), “3” (Emergent), OR “4” (Emergent salvage) this field *must* be specified
Range: N/A
Parent/Child Relationship: “Status” = 2 (Urgent), 3 (Emergent); or 4 (Emergent Salvage) sequence #1975
STS Sequence Number: **1990**
Coding Classification: Operative

PERFUSION STRATEGY

Record Position: 214
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = None
2 = Combination
3 = Full
4 = Left Heart Bypass
Special Instructions: If “2” Perfusion Strategy Plan *must not* be blank
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: **2325**
Coding Classification: Operative

CPB UTILIZATION - COMBINATION PLAN

Record Position: 215
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Planned
2 = Unplanned
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: “Perfusion Strategy” = 2 (Combination); sequence #2325
STS Sequence Number: **2330**
Coding Classification: Operative

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INTERNAL MAMMARY ARTERY USED

Record Position: 216
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 2626
Coding Classification: Coronary Bypass

REASON FOR NO IMA

Record Position: 217
Data Length: 1
Data Type: Numeric
Harvest Codes: 2 = Subclavian stenosis;
3 = Previous cardiac or thoracic surgery;
4 = Previous mediastinal radiation;
5 = Emergent or salvage procedure;
6 = No (bypassable) LAD disease;
7 = Other Not Acceptable STS Provided Exclusion
8 = Other-Acceptable STS Provided Exclusion
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Internal Mammary Artery Used" = 2 (No IMA); sequence #2626
STS Sequence Number: 2629
Coding Classification: Coronary Bypass

VALVE

Record Position: 218
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Type of CABG" = 3 (CABG + Valve)
STS Sequence Number: 2129
Coding Classification: Operative

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AORTIC VALVE

Record Position: 219
Data Length: 1
Data Type: Numeric
Harvest Codes: 2 = No
3 = Yes, planned
4 = Yes, unplanned due to surgical complication
5 = Yes, unplanned due to unsuspected disease or anatomy
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Valve" = 1 (Yes); sequence #2129
STS Sequence Number: 2131
Coding Classification: Operative

AORTIC VALVE PROCEDURE

Record Position: 220
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Replacement
2 = Repair/Reconstruction
3 = Surgical Prosthetic Valve Intervention (not explant of valve)
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Aortic Valve" = 3 (Yes, planned), 4 (Yes, unplanned due to surgical complication), or 5 (Yes, unplanned due to unsuspected disease or anatomy); sequence #3390
STS Sequence Number: 3395
Coding Classification: Valve Surgery

MITRAL VALVE

Record Position: 221
Data Length: 1
Data Type: Numeric
Harvest Codes: 2 = No
3 = Yes, planned
4 = Yes, unplanned due to surgical complication
5 = Yes, unplanned due to unsuspected disease or anatomy
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Valve" = 1 (Yes); sequence #2129
STS Sequence Number: 2133
Coding Classification: Operative

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MITRAL VALVE PROCEDURE

Record Position: 222
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Repair
2 = Replacement
3 = Surgical Prosthetic Valve Intervention (Not explant of valve)
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Mitral Valve" = 3 (Yes, planned), 4 (Yes, unplanned due to surgical complication), or 5 (Yes, unplanned due to unsuspected disease or anatomy); sequence #3495
STS Sequence Number: 3500
Coding Classification: Valve Surgery

TRICUSPID VALVE

Record Position: 223
Data Length: 1
Data Type: Numeric
Harvest Codes: 2 = No
3 = Yes, planned
4 = Yes, unplanned due to surgical complication
5 = Yes, unplanned due to unsuspected disease or anatomy
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Valve" = 1 (Yes); sequence #2129
STS Sequence Number: 2134
Coding Classification: Operative

PULMONIC VALVE

Record Position: 224
Data Length: 1
Data Type: Numeric
Harvest Codes: 2 = No
3 = Yes, planned
4 = Yes, unplanned due to surgical complication
5 = Yes, unplanned due to unsuspected disease or anatomy
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Valve" = 1 (Yes); sequence #2129
STS Sequence Number: 2135
Coding Classification: Operative

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REOPERATION FOR BLEED/ TAMPONADE

Record Position: 225
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: 1. This field *must not* be blank
2. Nulls must be filled with "2" (No)
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 6755
Coding Classification: Postoperative Events

UNPLANNED CORONARY ARTERY INTERVENTION

Record Position: 226
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: 1. This field *must not* be blank
2. Nulls must be filled with "2" (No)
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 6771
Coding Classification: Postoperative Events

UNPLANNED CORONARY ARTERY INTERVENTION - VESSELS

Record Position: 227
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Native Coronary;
2 = Graft;
3 = Both
Special Instructions: N/A
Range: N/A
Parent/Child Relationship: "Unplanned Coronary Artery Intervention" = 1 (Yes); sequence #6771
STS Sequence Number: 6772
Coding Classification: Postoperative Events

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DEEP STERNAL

Record Position: 228
Data Length: 1
Data Type: Numeric
Harvest Codes: 2 = No;
3= Yes, within 30 days of procedure;
4=Yes> 30 after procedure, but during hospitalization for surgery
Special Instructions: 1. This field must not be blank
2. Nulls must be filled with "2" (No)
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 6700
Coding Classification: Postoperative Events

NEURO – STROKE PERMANENT

Record Position: 229
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: 1. This field must not be blank
2. Nulls must be filled with "2" (No)
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 6810
Coding Classification: Postoperative Events

PULM – VENTILATION PROLONGED

Record Position: 230
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: 1. This field must not be blank
2. Nulls must be filled with "2" (No)
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 6835
Coding Classification: Postoperative Events

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RENAL – RENAL FAILURE

Record Position: 231
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: 1. This field *must not* be blank
2. Nulls must be filled with “2” (No)
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 6870
Coding Classification: Postoperative Events

RENAL – DIALYSIS REQUIREMENT

Record Position: 232
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: 1. This field *must not* be blank
2. Nulls must be filled with “2” (No)
3. If DIALYSIS is “1” then this field *must* be “2” (No)
Range: N/A
Parent/Child Relationship: “Renal – Renal Failure” = 1 (Yes); sequence #6870
STS Sequence Number: 6875
Coding Classification: Postoperative Events

OTHER – A FIB

Record Position: 233
Data Length: 1
Data Type: Numeric
Harvest Codes: 1 = Yes;
2 = No
Special Instructions: 1. This field *must not* be blank
2. Nulls must be filled with “2” (No)
Range: N/A
Parent/Child Relationship: N/A
STS Sequence Number: 6945
Coding Classification: Postoperative Events

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FACILITY IDENTIFICATION NUMBER

Record Position:	234 through 239
Data Length:	6
Data Type:	Numeric
Harvest Codes:	N/A
Special Instructions:	1. This field <i>must not</i> be blank 2. <i>Must</i> use OSHPD-issued six-digit number
Range:	N/A
Parent/Child Relationship:	N/A
STS Sequence Number:	N/A; CCORP-specific variable
Coding Classification:	Hospitalization

Questions about the content of this document can be directed to:

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