



Office of Statewide Health  
Planning and Development

## **FORMAT and FILE SPECIFICATIONS**

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

**Version 7.0**

*Released on May 31, 2017*

**Effective for DISCHARGES occurring  
on or after July 1, 2017**



FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

CCCORRP

# FORMAT AND FILE SPECIFICATIONS V 7.0 FOR ONLINE TRANSMISSION

## MINIMUM PC CONFIGURATION

1. Access to a personal computer (with the following minimum configuration)
  - 1 GHz processor, 1GB RAM, 40 GB hard drive (at least 200MB free)
  - High speed Internet connection (preferred)
  - Microsoft Internet Explorer version 9.0 (or higher) with 256K encryption
  - Adobe Acrobat Reader version 7.0 (or higher)
  - Virus Checking Software
  - File Size
2. Internet access (ISP)
3. 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 219 characters

## ADDITIONAL REQUIREMENTS

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

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**Standard Record Format**

<b>Data Element</b>	<b>Start</b>	<b>End</b>	<b>Type</b>	<b>&amp; Size</b>
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)
Race Documented	34	34	N	(1)
Race - White	35	35	N	(1)
Race - Black/African American	36	36	N	(1)
Race - Asian	37	37	N	(1)
Race - American Indian/Alaskan Native	38	38	N	(1)
Race - Native Hawaiian/Pacific Islander	39	39	N	(1)
Race - Other	40	40	N	(1)
Hispanic or Latino or Spanish Ethnicity	41	41	N	(1)
Date of Discharge	42	49	N	(8)
Discharge/Mortality Status	50	50	N	(1)
Mortality Date	51	58	N	(8)
Responsible Surgeon Name:				
Last Name	59	83	A	(25)
First Name	84	103	A	(20)
Middle Initial	104	104	A	(1)
Responsible Surgeon CA License Number	105	113	A/N	(9)
Height (cm)	114	117	N	(4)
Weight (kg)	118	121	N	(4)
Diabetes	122	122	N	(1)
Diabetes Control	123	123	N	(1)
Dialysis	124	124	N	(1)
Hypertension	125	125	N	(1)
Endocarditis	126	126	N	(1)
Infectious Endocarditis Type	127	127	N	(1)
Chronic Lung Disease	128	128	N	(1)
Liver Disease	129	129	N	(1)
Immunocompromise	130	130	N	(1)
Peripheral Arterial Disease (PVD)	131	131	N	(1)
Cerebrovascular Disease	132	132	N	(1)
Prior CVA	133	133	N	(1)
Prior CVA - When	134	134	N	(1)
CVD TIA	135	135	N	(1)
CVD Carotid Stenosis	136	136	N	(1)
CVD Carotid Stenosis – Right	137	137	N	(1)
CVD Carotid Stenosis – Left	138	138	N	(1)
CVD Prior Carotid Surgery	139	139	N	(1)
Last Creatinine Level	140	143	N	(4)
Total Albumin	144	147	N	(4)
Total Bilirubin	148	151	N	(4)
INR	152	155	N	(4)
Previous CABG	156	156	N	(1)
Previous Valve	157	157	N	(1)

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

<b>Data Element (cont'd)</b>	<b>Start</b>	<b>End</b>	<b>Type</b>	<b>&amp; Size</b>
Previous PCI	158	158	N	(1)
Previous PCI - Interval	159	159	N	(1)
Prior MI	160	160	N	(1)
MI – When	161	161	N	(1)
Heart Failure	162	162	N	(1)
Heart Failure Timing	163	163	N	(1)
Classification - NYHA	164	164	N	(1)
Cardiogenic Shock	165	165	N	(1)
Resuscitation	166	166	N	(1)
Cardiac Arrhythmia	167	167	N	(1)
Cardiac Arrhythmia – VTach/VFib	168	168	N	(1)
Cardiac Arrhythmia – AFlutter	169	169	N	(1)
Cardiac Arrhythmia – Third Degree Heart Block	170	170	N	(1)
Cardiac Arrhythmia – Atrial Fibrillation	171	171	N	(1)
Cardiac Arrhythmia – Atrial Fibrillation- Type	172	172	N	(1)
Warfarin Use (within 5 days)	173	173	N	(1)
Coronary Anatomy/Disease Known	174	174	N	(1)
Number of Diseased Vessels	175	175	N	(1)
Percent Native Artery Stenosis Known	176	176	N	(1)
Percent Stenosis – Left Main	177	179	N	(3)
Ejection Fraction Done	180	180	N	(1)
Ejection Fraction (%)	181	183	N	(3)
PA Systolic Pressure Measured	184	184	N	(1)
PA Systolic Pressure	185	188	N	(4)
Insufficiency - Mitral	189	189	N	(1)
Incidence	190	190	N	(1)
Status	191	191	N	(1)
Urgent or Emergent Reason	192	193	N	(2)
CPB Utilization	194	194	N	(1)
CPB Utilization-Combination Plan	195	195	N	(1)
IMA Used	196	196	N	(1)
Reason for No IMA	197	197	N	(1)
Valve	198	198	N	(1)
Aortic Valve	199	199	N	(1)
Aortic Valve Procedure	200	200	N	(1)
Mitral Valve	201	201	N	(1)
Mitral Valve Procedure	202	202	N	(1)
Tricuspid Valve	203	203	N	(1)
Pulmonic Valve	204	204	N	(1)
Reoperation for Bleed	205	205	N	(1)
Reintervention –Myocardial Ischemia	206	206	N	(1)
Reintervention –Myocardial Ischemia –Vessel	207	207	N	(1)
Deep Sternal Infection/ Mediastinitis	208	208	N	(1)
Neuro – Stroke Permanent	209	209	N	(1)
Pulm – Ventilation Prolonged	210	210	N	(1)
Renal – Renal Failure	211	211	N	(1)
Renal – Dialysis Requirement	212	212	N	(1)
Other – A Fib	213	213	N	(1)
Facility Identification Number	214	219	N	(6)

FORMAT AND FILE SPECIFICATIONS V 7.0  
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**FOOTNOTES**

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

CCCORP

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**Data Fields**

**MEDICAL RECORD NUMBER**

Record Position: 1 through 12  
Data Length: 12  
Data Type: Alphanumeric  
Harvest Codes: N/A  
Special Instructions: 1. This field *must not* be blank  
2. **Duplicate MRNs:** DO NOT submit a 2<sup>nd</sup> CABG case when 2<sup>nd</sup> CABG surgery was due to a complication of the initial CABG surgery

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: 1. 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

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**DATE OF BIRTH**

Record Position: 22 through 29  
Data Length: 8  
Data Type: Numeric  
Harvest Codes: 09 09 9999  
Month Day Year

Special Instructions: 1. 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 = 1, 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: 1. This field must not be blank  
Range: N/A  
Parent/Child Relationship: N/A  
**STS Sequence Number: 75**  
Coding Classification: Demographics



FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**RACE DOCUMENTED**

Record Position: 34  
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: 35  
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: 155**  
Coding Classification: Demographics

**RACE – BLACK/AFRICAN AMERICAN**

Record Position: 36  
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: 160**  
Coding Classification: Demographics

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**RACE – ASIAN**

Record Position: 37  
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: 165**  
Coding Classification: Demographics

**RACE – AMERICAN INDIAN/ALASKAN NATIVE**

Record Position: 38  
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: 170**  
Coding Classification: Demographics

**RACE – NATIVE HAWAIIAN/PACIFIC ISLANDER**

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: 175**  
Coding Classification: Demographics

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**RACE – OTHER**

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: 180**  
Coding Classification: Demographics

**HISPANIC OR LATINO OR SPANISH ETHNICITY**

Record Position: 41  
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

**DATE OF DISCHARGE**

Record Position: 42 through 49  
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: 7008**  
Coding Classification: Discharge / Mortality

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**DISCHARGE/ MORTALITY STATUS**

Record Position: 50  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 2 = Died in Hospital;  
3 = Discharged alive, last known status alive;  
4 = Discharged alive, died after discharge

Special Instructions: 1. This field *must not* be blank  
2. 1 = In hospital alive is not valid for CCORP. Only records discharged during report period should be entered in CCORP.

Range: N/A  
Parent/Child Relationship: N/A  
**STS Sequence Number:** **7005**  
Coding Classification: Discharge / Mortality

**MORTALITY DATE**

Record Position: 51 through 58  
Data Length: 8  
Data Type: Numeric  
Harvest Codes: 09 09 9999  
Month Day Year

Special Instructions: 1. Single-digit months and days *must* include a preceding zero  
Range: N/A  
Parent/Child Relationship: Parent is "Discharge/ Mortality Status" = 2 (Died in Hospital); STS sequence #7005  
**STS Sequence Number:** **7121**  
Coding Classification: Discharge / Mortality

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**RESPONSIBLE SURGEON NAME – LAST**

Record Position: 59 through 83  
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

**RESPONSIBLE SURGEON NAME – FIRST**

Record Position: 84 through 103  
Data Length: 20  
Data Type: Alpha  
Harvest Codes: N/A

Special Instructions: 1. 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: 104  
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:  
[www.mbc.ca.gov/Breeze/License\\_Lookup.aspx](http://www.mbc.ca.gov/Breeze/License_Lookup.aspx)

Range: N/A  
Parent/Child Relationship: N/A  
STS Sequence Number: N/A; **CCORP-specific variable**  
Coding Classification: Operative

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**RESPONSIBLE SURGEON CA LICENSE NUMBER**

Record Position: 105 through 113  
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](http://www.mbc.ca.gov/Breeze/License_Lookup.aspx)

Range: N/A  
Parent/Child Relationship: N/A  
STS Sequence Number: N/A; **CCORP-specific variable**  
Coding Classification: Operative

**HEIGHT (cm)**

Record Position: 114 through 117  
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: 118 through 121  
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 – 181.1; low = 10.0, high = 250.0  
Parent/Child Relationship: N/A  
**STS Sequence Number: 335**  
Coding Classification: Risk Factors

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**DIABETES**

Record Position: 122  
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

**DIABETES CONTROL**

Record Position: 123  
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: 124  
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

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**HYPERTENSION**

Record Position: 125  
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: 126  
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: 127  
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



FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**CHRONIC LUNG DISEASE**

Record Position: 128  
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

**LIVER DISEASE**

Record Position: 129  
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

**IMMUNOCOMPROMISE**

Record Position: 130  
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: 490**  
Coding Classification: Risk Factors

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**PERIPHERAL ARTERIAL DISEASE (PVD)**

Record Position: 131  
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

**CVD**

Record Position: 132  
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 Carotid Stenosis, CVD Prior Carotid Surgery.  
Range: N/A  
Parent/Child Relationship: N/A  
**STS Sequence Number: 525**  
Coding Classification: Risk Factors

**PRIOR CVA**

Record Position: 133  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = Yes; 2 = No; 3 = Unknown  
Special Instructions: 1. If "1" then Prior CVA – When *must* be specified  
Range: N/A  
Parent/Child Relationship: "CVD" = 1 (Yes); sequence #525  
**STS Sequence Number: 530**  
Coding Classification: Risk Factors

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**PRIOR CVA – WHEN**

Record Position: 134  
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: 135  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = Yes; 2 = No; 3 = Unknown  
Special Instructions: N/A  
Range: N/A  
Parent/Child Relationship: "CVD" = 1 (Yes); sequence #525  
**STS Sequence Number: 540**  
Coding Classification: Risk Factors

**CVD CAROTID STENOSIS**

Record Position: 136  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = None; 2 = Right; 3 = Left; 4 = Both; 5 = Not Documented  
  
Special Instructions: 1. If "2, 3 or 4", CVD Carotid Stenosis Right and/or Left fields *must* be specified  
Range: N/A  
Parent/Child Relationship: "CVD" = 1 (Yes); sequence #525  
**STS Sequence Number: 545**  
Coding Classification: Risk Factors

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**CVD CAROTID STENOSIS – RIGHT**

Record Position: 137  
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: 138  
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: 139  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = Yes; 2 = No  
Special Instructions: N/A  
Range: N/A  
Parent/Child Relationship: "CVD" = 1 (Yes); sequence #525  
**STS Sequence Number: 560**  
Coding Classification: Risk Factors

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**LAST CREATININE LEVEL**

Record Position: 140 through 143  
Data Length: 4  
Data Type: Numeric  
Harvest Codes: N/A

Special Instructions: 1. Do not code decimal  
2. if Liver disease is present, Creatinine cannot be blank.  
Range: 0.10 – 12.00; low = 0.10, high = 30.00  
Parent/Child Relationship: N/A  
**STS Sequence Number: 585**  
Coding Classification: Risk Factors

**TOTAL ALBUMIN**

Record Position: 144 through 147  
Data Length: 4  
Data Type: Numeric  
Harvest Codes: N/A

Special Instructions: 1. Do not code decimal (implied)  
Range: 3.50 – 5.00; low = 1.00, high = 10.00  
Parent/Child Relationship: N/A  
**STS Sequence Number: 590**  
Coding Classification: Risk Factors

**TOTAL BILIRUBIN**

Record Position: 148 through 151  
Data Length: 4  
Data Type: Numeric  
Harvest Codes: N/A

Special Instructions: 1. Do not code decimal (implied)  
2. if Liver disease is present, Bilirubin cannot be blank.  
Range: 0.20 – 1.30; low = 0.10, high = 50.00  
Parent/Child Relationship: N/A  
**STS Sequence Number: 595**  
Coding Classification: Risk Factors

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**INR**

Record Position: 152 through 155  
Data Length: 4  
Data Type: Numeric  
Harvest Codes: N/A

Special Instructions: 1. Do not code decimal (implied)  
2. if Liver disease is present, INR cannot be blank.  
Range: 0.90 – 1.30; low = 0.50, high = 30.00  
Parent/Child Relationship: N/A  
**STS Sequence Number: 610**  
Coding Classification: Risk Factors

**PREVIOUS CABG**

Record Position: 156  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = Yes; 2 = No

Special Instructions: 1. Nulls must be filled with “2” (No)  
Range: N/A  
Parent/Child Relationship: N/A  
**STS Sequence Number: 670**  
Coding Classification: Previous Cardiac Interventions

**PREVIOUS VALVE**

Record Position: 157  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = Yes; 2 = No

Special Instructions: 1. Nulls must be filled with “2” (No)  
Range: N/A  
Parent/Child Relationship: N/A  
**STS Sequence Number: 675**  
Coding Classification: Previous Cardiac Interventions

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**PREVIOUS PCI**

Record Position: 158  
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: 159  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = <= 6 Hours; 2 = > 6 Hours

Special Instructions: 1. 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

**PRIOR MI**

Record Position: 160  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = Yes; 2 = No; 3 = Unknown

Special Instructions: 1. 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

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FOR ONLINE TRANSMISSION

**MI – WHEN**

Record Position: 161  
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: 162  
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

**HEART FAILURE TIMING**

Record Position: 163  
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



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FOR ONLINE TRANSMISSION

**CLASSIFICATION – NYHA**

Record Position: 164  
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: 165  
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: N/A  
Range: N/A  
Parent/Child Relationship: N/A  
**STS Sequence Number: 930**  
Coding Classification: Preoperative Cardiac Status

**RESUSCITATION**

Record Position: 166  
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

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**CARDIAC ARRHYTHMIA**

Record Position: 167  
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: 168  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = None; 2 = Remote; 3 = Recent  
Special Instructions: N/A  
Range: N/A  
Parent/Child Relationship: Parent is “Cardiac Arrhythmia” = 1 (Yes); STS sequence #945  
**STS Sequence Number: 950**  
Coding Classification: Preoperative Cardiac Status

**CARDIAC ARRHYTHMIA – AFLUTTER**

Record Position: 169  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = None; 2 = Remote; 3 = Recent  
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

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**CARDIAC ARRHYTHMIA – THIRD DEGREE HEART BLOCK**

Record Position: 170  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = None; 2 = Remote; 3 = Recent  
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: 171  
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

**CARDIAC ARRHYTHMIA – ATRIAL FIBRILLATION- TYPE**

Record Position: 172  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 2 = Paroxysmal; 4 = Persistent; 5 = Longstanding Persistent;  
6 = Permanent  
Special Instructions: N/A  
Range: N/A  
Parent/Child Relationship: "Cardiac Arrhythmia – Atrial Fibrillation" = 2 or 3; sequence #961  
**STS Sequence Number: 962**  
Coding Classification: Preoperative Cardiac Status

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**WARFARIN USE (within 5 days)**

Record Position: 173  
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: 174  
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

**NUMBER OF DISEASED VESSELS**

Record Position: 175  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = None  
2 = One  
3 = Two  
4 = Three  
  
Special Instructions: 1. 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

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FOR ONLINE TRANSMISSION

**PERCENT NATIVE ARTERY STENOSIS KNOWN**

Record Position 176  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = Yes; 2 = No  
Special Instructions: N/A  
Range: N/A  
Parent/Child Relationship "Number Diseased Vessels" = 2 (One), 3 (Two), or 4 (Three);  
sequence #1170  
**STS Sequence Number: 1175**  
Coding Classification: Hemodynamics / Cath / Echo

**PERCENT STENOSIS – LEFT MAIN**

Record Position: 177 through 179  
Data Length: 3  
Data Type: Numeric  
Harvest Codes: N/A  
Special Instructions: N/A  
  
Range: 0 – 100; low = 0, high = 100  
Parent/Child Relationship: "Percent Native Artery Stenosis Known" = 1 (Yes); sequence #1175  
**STS Sequence Number: 1195**  
Coding Classification: Hemodynamics / Cath / Echo

**EJECTION FRACTION DONE**

Record Position: 180  
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

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**EJECTION FRACTION (%)**

Record Position: 181 through 183  
Data Length: 3  
Data Type: Numeric  
Harvest Codes: N/A

Special Instructions: 1. 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: 184  
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: 185 through 188  
Data Length: 4  
Data Type: Numeric  
Harvest Codes: N/A

Special Instructions: 1. 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

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**INSUFFICIENCY - MITRAL**

Record Position: 189  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 0 = None  
1 = Trivial/Trace  
2 = Mild  
3 = Moderate  
4 = Severe  
5 = Not Documented  
Special Instructions: N/A  
Range: N/A  
Parent/Child Relationship: N/A  
**STS Sequence Number:** 1680  
Coding Classification: Hemodynamics / Cath / Echo

**INCIDENCE**

Record Position: 190  
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

**STATUS**

Record Position: 191  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = Elective  
2 = Urgent  
3 = Emergent  
4 = Emergent Salvage  
Special Instructions: 1. This field must not be blank  
Range: N/A  
Parent/Child Relationship: N/A  
**STS Sequence Number:** 1975  
Coding Classification: Operative

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**URGENT OR EMERGENT REASON**

Record Position:	192 through 193
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 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:	1. If Status is “2” (Urgent) or “3” (Emergent) this field <i>must</i> be specified
Range:	N/A
Parent/Child Relationship:	“Status” = 2 (Urgent) or 3 (Emergent); sequence #1975
<b>STS Sequence Number:</b>	<b>1990</b>
Coding Classification:	Operative



FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**CPB UTILIZATION**

Record Position: 194  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = None  
2 = Combination  
3 = Full

Special Instructions: 1. If "2" CPB Utilization-Combination 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: 195  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = Planned  
2 = Unplanned

Special Instructions: N/A  
Range: N/A  
Parent/Child Relationship: "CPB Utilization" = 2 (Combination); sequence #2325  
**STS Sequence Number:** **2330**  
Coding Classification: Operative

**IMA USED**

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:** **2626**  
Coding Classification: Coronary Bypass

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**REASON FOR NO IMA**

Record Position: 197  
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  
Special Instructions: N/A  
Range: N/A  
Parent/Child Relationship: "IMA Used" = 4 (No IMA); sequence #2655  
**STS Sequence Number: 2627**  
Coding Classification: Coronary Bypass

**VALVE**

Record Position: 198  
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" = 2 (CABG + Valve)  
**STS Sequence Number: 2125**  
Coding Classification: Operative

**AORTIC VALVE**

Record Position: 199  
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 #2125  
**STS Sequence Number: 3390**  
Coding Classification: Valve Surgery

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**AORTIC VALVE PROCEDURE**

Record Position: 200  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = Replacement  
2 = Repair/Reconstruction

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: 201  
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 #2125

**STS Sequence Number:** **3495**  
Coding Classification: Valve Surgery

**MITRAL VALVE PROCEDURE**

Record Position: 202  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 1 = Repair  
2 = Replacement

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

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**TRICUSPID VALVE**

Record Position: 203  
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 #2125  
**STS Sequence Number:** **3640**  
Coding Classification: Valve Surgery

**PULMONIC VALVE**

Record Position: 204  
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 #2125  
**STS Sequence Number:** **3685**  
Coding Classification: Valve Surgery

**REOPERATION FOR BLEED**

Record Position: 205  
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

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**REINTERVENTION - MYOCARDIAL ISCHEMIA**

Record Position: 206  
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

**REINTERVENTION - MYOCARDIAL ISCHEMIA - VESSEL**

Record Position: 207  
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: "Reintervention – Myocardial Ischemia" = 1 (Yes); sequence #6771  
**STS Sequence Number: 6772**  
Coding Classification: Postoperative Events

**DEEP STERNAL INFECTION/ MEDIASTITIS**

Record Position: 208  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 2 = No  
3 = Yes, within 30 days of procedure  
4 = Yes, >30 days 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

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FOR ONLINE TRANSMISSION

**NEURO – STROKE PERMANENT**

Record Position: 209  
Data Length: 1  
Data Type: Numeric  
Harvest Codes: 2 = No  
3 = Yes, hemorrhagic  
4 = Yes, ischemic  
5 = Yes, undetermined type

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: 210  
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

**RENAL – RENAL FAILURE**

Record Position: 211  
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

FORMAT AND FILE SPECIFICATIONS V 7.0  
FOR ONLINE TRANSMISSION

**RENAL – DIALYSIS REQUIREMENT**

Record Position: 212  
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: 213  
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: 6930**  
Coding Classification: Postoperative Events

**FACILITY IDENTIFICATION NUMBER**

Record Position: 214 through 219  
Data Length: 6  
Data Type: Numeric  
Harvest Codes: N/A

Special Instructions: 1. This field must not be blank  
2. *Must* 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

FORMAT AND FILE SPECIFICATIONS V 7.0  
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Questions about the content of this document can be directed to:

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