

Adult Cardiac Surgery National Database  
of the  
Society of Thoracic Surgeons  
  
Software Specifications

Version 4.20.2

Current as of April 7, 2020

Note: Some portions of this document are highlighted in blue. Although it is critical for the success of the developer's software that all of the information in this document be understood and followed, the highlights are used to point out areas that have changed since previous versions or areas of extreme importance to the functionality of the software.

## Purpose:

The purpose of this document is to describe the features that are required to exist in software certified by The Society of Thoracic Surgeons (STS) for the collection and submission of Adult Cardiac Surgery data. The STS is making an effort to set minimum standards for the software to be used by its members, while allowing enough flexibility so that developers can produce competitive features for the members' benefit.

The intended audience for this document is the software developers who are designing and maintaining the code used by participants to collect and submit data to the STS database. This information will be essential for developers working for vendors who will distribute their software to many members as well as developers working for an individual member designing a package to be used only by themselves (Participant Generated Software).

Note: All software used to collect data to be submitted to the STS Data Warehouse must go through a certification process before data will be accepted into the national database. Developers must also have a signed contract on file with the STS before the certification process can begin.

Since the functionality of the software will revolve around the data specifications, this document will start by providing some information about the specifications.

## Data Specifications:

- Structural changes between versions 2.9 and 4.20.2.
  - There were no structural changes to the data specifications database between versions 2.9 and 4.20.2.
- Purpose of the Data Specifications

The data specifications describe the data fields that are required to exist in certified software. It details the field names, definitions, dependencies, acceptable values, the harvest codes associated with those values, etc. Developers of certified software should use the data specifications to ensure their software:

- a. includes all core fields in the application (see description of Core fields below),
- b. uses the correct programmatic name (Short Name) for each field,
- c. follows the defined field dependency rules (see description of Parent / Child relationships below),
- d. accepts only the defined valid values appropriate to each field and ensures that the values are in the correct format,
- e. provides the user with appropriate field definitions, and

- f. includes only the appropriate fields in the extracted data files the site will submit to the Data Warehouse.

- Data Version Numbers

As medicine, technology and interest in research areas change, the data specifications have and will change to collect additional and more detailed information. A Data Version number is assigned by the STS to each official version of the data specifications. This number will play a key role in how the data is handled and processed (see Software Specifications below).

Note the change in the format of the data version value between v2.9 and v4.20.2. The change was made to make the version number reflect the database and the year it was initially released. Version numbers will now have three levels. The first level (4) will indicate the Adult Cardiac Surgery Database. The second level (20) indicates the year of the mandatory start date for this version (in this case, 2020). The third level (2) indicates the release number of this version of the specifications. Although every effort is made not to make changes to the specifications once they have been released, in the event that minor changes are needed, the third level will be used to reflect that change and ensure the correct version of the documentation is being used. Note that a minor update has been released which is why the third level to the current version number is 2. All three levels should always be used when referencing a specific data version (such as the value placed in the DataVrsn field).

STS members were required to start using certified software as of January 1, 2000. At that time, version 2.35 of the data specifications was put into effect and any data collected for procedures performed before January 1, 2000 were converted as closely as possible to the 2.35 format.

Since that time, the data specifications have been upgraded seven times; first to version 2.41 and then to 2.52.1, 2.61, 2.73, 2.81, 2.9 and now 4.20.2. For the upgrades to versions 2.41, 2.52.1, and 2.61, there was a conversion period when the data could be recorded following either the version being replaced or the newer version. This allowed sites to continue entering their data into an old version of their software while they are waiting to have their software upgraded.

Beginning with the upgrade to version 2.73, the data version of the record is determined by the date of surgery. When users indicate they want to create a new data record, the software must first prompt the user for the surgery date. This process will ensure that all records in the national database for procedures performed during a specific time period will follow the same data version, regardless of when the record was created.

The following table defines which version of the data specifications will be accepted into the national database for procedures performed during the specified time periods:

| Surgery date                              | Data Specifications           |
|-------------------------------------------|-------------------------------|
| Any dates up to December 31, 1999         | Data converted to 2.35 format |
| January 1, 2000 through December 31, 2001 | 2.35                          |
| January 1, 2002 through June 30, 2002     | 2.35 or 2.41                  |
| July 1, 2002 through December 31, 2003    | 2.41                          |
| January 1, 2004 through December 31, 2004 | 2.41 or 2.52.1                |
| July 1, 2004 through June 31, 2007        | 2.52.1                        |
| July 1, 2007 through December 31, 2007    | 2.52.1 or 2.61                |
| January 1, 2008 through June 30, 2011     | 2.61                          |
| July 1, 2011 through June 30, 2014        | 2.73                          |
| July 1, 2014 through June 30, 2017        | 2.81                          |
| July 1, 2017 through June 30, 2020        | 2.9                           |
| July 1, 2020 through current date         | 4.20.2                        |

- Sequence Number

The sequence number field (SeqNo) is provided in the data specifications solely for identifying fields and sorting fields within a specific version of the data specification database and documentation. They are not intended as a permanent identifier for individual fields and a number assigned to a field in one version of the data specifications might be assigned to a different field in another version. Because of this, it is highly recommended that developers should not use the SeqNo value as a field identifier in any of their programs. See Appendix F for a list of SeqNo values for each field for each of the most recent versions of the data specifications.

- Future Upgrades

As the need arises, new versions of the data specifications will be distributed by the STS. In the interest of keeping major software upgrades and testing down to a minimum, the STS does not expect to upgrade the specifications more frequently than once every other year. Developers should anticipate these upgrades and design their software in such a way that the new versions can be incorporated with minimal software changes and that records created under different data versions will be handled properly as described below.

- Data Specifications field descriptions

The data specifications are maintained in a table in an Access database to allow the information to be cut and pasted, sorted and reported on in a variety of ways and to make incorporating the information easier for the developer. The table for the 4.20.2 version of the specifications contains 20 fields which are described here:

Table name: tblAdultDataSpecPsV4.20.2

- A. SeqNo – An arbitrary number (sequence number) used for ordering the fields within a specific version of the data specifications. The ordering of the numbers is set to loosely follow the order in which the fields appear in the DCF. As described above, the SeqNo value for one field can change from one version of the specifications to the next. The values, therefore, should never be used in any reports, queries or programs to refer to a specific field.
- B. SectionName – The name of the section of the DCF where the field is located.
- C. SectionSeqNo – The order number of the section of the DCF where the field is located.
- D. LongName – The longer and more descriptive name of the field. In most cases, the LongName does not change from one version of the specifications to the next, but can change in some instances. Because of this, the LongName value should never be used to refer to a field in reports, queries or programs.
- E. ShortName – The short, programmatic name assigned to the field. The ShortName value should be used in all reports, queries and programs to refer to a given field as this value will not change from one version of the specifications to another.
- F. Core – This field contains a value of Yes or No to define whether or not the field should be available to the users for data entry. Whether or not the field is included in data files exported for submission to the STS database depends on what other data versions are being included in the data extract. (See the “Data export for harvest to the data warehouse” section of the Software Specifications below.) The values in this field have the following meanings:
  - Yes = Field must be available to the users for entering data for records following this version of the data specifications and the field must be included in the data files exported for submission to the STS database that contain records following this data version.
  - No = Field is not required to be available to the users for entering data for records following this version of the data specifications. Fields defined as Core=No are no longer collected in the current version and will not appear in subsequent versions.
- G. Harvest – This field contains a value of Yes, No or Optional to define whether or not the data for this field is included in the export file to be submitted to the data warehouse. (See the “Data export for harvest to the data warehouse” section of the Software Specifications below for more details about the contents of the files submitted to the data warehouse.) The values for this field have the following meanings:

- Yes – Data from this field must be included in the data file for all records following this version of the data specifications.
- No – Data from this field must not be included in the data file for all records following this version of the data specifications.
- Optional – The individual users determine whether or not the data from this field is included in the data file. By default, the software should treat this as a Yes and include the data in the extract. The users must explicitly state that they do not want the data for this field included. This distinction is defined for fields the STS would prefer to have included in the harvest, but the site might have reasons (such as not being allowed by state laws) for not including the values in the harvest file.

H. Format – The format in which the values for the field should be collected. The options for this field are:

- Date - mm/dd/yyyy: Date values only with the month specified as a 2-digit numeric value, day specified as a 2-digit numeric value, and year specified as a 4-digit numeric value.
- Time - hh:mm (24-hour clock): Time values only with the hours specified as a 2-digit numeric value (in 24-hour format), and the minutes specified as a 2-digit numeric value.
- Date/Time - mm/dd/yyyy hh:mm : Date and time values in one field with the month specified as a 2-digit numeric value, day specified as a 2-digit numeric value, and year specified as a 4-digit numeric value, followed by a single space and then the hours specified as a 2-digit numeric value (in 24-hour format), and the minutes specified as a 2-digit numeric value.
- Integer: Numeric values with no decimal points.
- Real: Numeric values with at least one decimal point.
- Text: Value can contain any alphanumeric characters.
- Text (categorical values specified by STS): Values displayed to the user are the text descriptions defined in the data specifications harvest codes table. The values submitted to the Data Warehouse are the Harvest Codes defined in the data specifications.
- Multi-Select: This format is similar to the “Text (categorical values specified by STS)” format in that values displayed to the user are the text descriptions defined in the data specifications harvest codes table. However, for fields with a multi-select format, users can select more than one choice. The values submitted to the Data Warehouse are a comma-delimited list of the harvest codes associated with each choice indicated by the user. **(Please do not include any spaces between the choices).**

For example, if the user enters 72 for Patient Age, selects “White”, “Black/African American”, and “Asian” for Race – Multi-Select, and enters “General Hospital” for Hospital Name, that portion of the submitted data record would look like this:

```
...|Age|RaceMulti|HospName|...
...|72|1,2,3|General Hospital|...
```

Developers should also be aware that multi-select fields can be the parent of other fields. The child field should be enabled for data entry if ANY of the choices selected in the multi-select parent field are in the ParentHarvestCodes list for the child field. The child field should be disabled if NONE of the choices selected in the multi-select parent field are in the ParentHarvestCodes list for the child field.

- Text (categorical values specified by user): Values displayed to the user and submitted to the Data Warehouse come from a list maintained by the user (see item “e” under the “3. Data Entry” section of the “Software Specification” below).
- I. DataSource – This field defines how the data is entered into the field. The options for this field are as follows (note, in some cases, there is more than one option for data source, such as “User or Calculated”):
  - User – The user enters the value, otherwise it is left missing (null).
  - Automatic – The software automatically inserts a value for every record. This is usually assigned to administrative fields that must contain a value, such as the DataVrsn field.
  - Calculated – The value is calculated by the software based on values in other fields (for example, the risk model fields). In v4.20.2 of the data specifications there are a total of 15 fields to be calculated:

| ShortName         | LongName                              |
|-------------------|---------------------------------------|
| Age               | Patient Age                           |
| CalculatedBMI     | Calculated BMI                        |
| MELDScr           | MELD Score                            |
| TotCircArrTm      | Total Circulatory Arrest Time         |
| TotalPOInitVentHr | Total Postoperative Initial Vent Hour |
| VentHrsTot        | Total Postoperative Ventilation Hours |
| PredMort          | Predicted Risk of Mortality           |
| PredDeep          | Predicted Deep Sternal Wound Infx     |
| PredReop          | Predicted Reoperation                 |
| PredStro          | Predicted Permanent Stroke            |
| PredVent          | Predicted Prolonged Ventilation       |
| PredRenF          | Predicted Renal Failure               |
| PredMM            | Predicted Morbidity or Mortality      |
| Pred6D            | Predicted Short Length of Stay        |
| Pred14D           | Predicted Long Length of Stay         |

The Age field can be entered directly by the user or calculated by the software by finding the difference between the fields DOB and SurgDt (please take leap years into account when doing this calculation).

Note the calculation of BMI and Postoperative Initial Vent Hours is new to version 4.20.2.

The formulas used to calculate the BMI, Meld Score, Total Postoperative Initial Vent Hours, Total Postoperative Ventilation Hours, and the Total Circulatory Arrest Time are provided in Appendix A, Appendix B, Appendix C, Appendix D and Appendix E respectively below. The methods used to calculate the risk scores are provided in separate documentation (contact the Data Warehouse for this information).

- Lookup – The software automatically inserts a value after looking up the information kept in a table maintained by the user. For example, HospStat is filled in based on which HospName value is selected (see item “e” under the “3. Data Entry” section of the “Software Specification” below).
- J. DataLength – The number of characters a text field should be able to hold. This value is only specified in cases where a specific length is required.
- K. DBTableName – The name of the table in the export file in which the field should reside. For the Adult Cardiac Database, this value is null since the data structure is a flat file.
- L. Definition – The official definition of the field.
- M. LowValue – The lowest valid value that will be accepted for the specified field. This is used only in fields that accept numeric values. If field values are submitted to the Data Warehouse that are less than LowValue, the entire data record will be rejected.
- N. HighValue – The highest valid value that will be accepted for the specified field. This is used only in fields that accept numeric values. If field values are submitted to the Data Warehouse that are greater than HighValue, the entire data record will be rejected.
- O. UsualRangeLow - The lowest value that is likely to be entered by the user. If the user enters a value that is below this number, but still greater than or equal to the value defined in LowValue, the value should be accepted, but the user should be given a message that the value they entered is unusually low and that they should verify the value.
- P. UsualRangeHigh - The highest value that is likely to be entered by the user. If the user enters a value that is above this number, but still less than or equal to the value defined in HighValue, the value should be accepted, but the user should be given a message that the value they entered is unusually high and that they should verify the value.
- Q. ParentLongName – The “parent” field on which this field (the “child” field) is dependent. Software must be defined such that the parent field must contain a value that is specified in the ParentValue field before data can be entered into this field, otherwise the field is disabled or unavailable.
- R. ParentShortName – The programmatic “ShortName” of the parent field.
- S. ParentValue – The list of values the parent field can have before this field can be available for data entry.
- T. ParentHarvestCodes – A bar-delimited list of the harvest codes associated with the values identified in the ParentValue field.
- U. FieldStatus – The status of this field in this data version compared to the most recent data version. The options for this field are as follows:

- New – This field did not exist in the previous version of the data specifications and was added to this version.
- Dropped – This field was a core field in the previous version of the data specifications, but is no longer a core field in this version.
- Continued – This field was a core field in the previous version of the data specifications and continues to be a core field in this version. Note that a field defined as Continued may or may not have had some details changed between the previous and current version of the data specifications.

Table name: tblAdultDataSpecsV4\_20\_1\_HarvestCodes

- A. ShortName – The short programmatic name assigned to the field.
- B. HarvestCode– The code that is assigned to each choice in the valid data. These are the values that are used in the exported data file that is submitted to the Data Warehouse.
- C. Description – The text description of the choice. This is the value the user sees while doing data entry.
- D. DisplayOrder – The order in which the choices are displayed to the user for this field.
- E. Definition – The official definition of the specified choice for this field. Note that not all choices will have a definition.

## Software specifications:

It is not the intention of the STS to regulate the algorithms and methodologies the developers use to produce their software. However, there are specific features and functionalities that are needed in the software to allow data to be collected and submitted in a uniform format and to enable the warehouse to communicate with the members about individual records and data items. The purpose of this section is to describe those features and functions.

### 1. General features

The certified software must have the following minimum features:

- a. Provide a user-friendly interface that can be used on a current personal computer operating system.
- b. Allow users to be able to view and select the actual data values for each field. If the data is coded internally, user should, by default, view the non-coded values.
- c. Ensure all date values are year 2000 compliant having a 4-digit year format.
- d. Software must accept and integrate data previously collected and maintained in other software products or data versions. (See “Data Import”, below).
- e. The user’s data must be accessible for ad hoc queries either through the software package or by common third party software (e.g. Microsoft Access, Crystal Reports, etc.) If the data is not directly accessible, then the software must provide the ability for the user to export the data in a standard file format which can be queried using common third party query software. (See “Data Export for Analysis by Users”, below). When users are querying their data, grouping records that were created under multiple data version numbers must be invisible to the user. For example, if a user wants to analyze a risk factor in their data for a time period of two years, the fact that their data was recorded under two different version numbers during that period must not require any additional steps for the user to build the query. We strongly recommend ensuring this by keeping all data in one database regardless of the version number. This requirement is the result of feedback from many frustrated users.
- f. Users must be able to select specific records in their database via key fields including patient’s name and the record identification field (RecordID). The search mechanism must label the RecordID field with the text “RecordID”.
- g. Software must include a utility that allows users to check the completeness of any or all of their data fields. This utility must allow the user to select which fields are included in the data check and have the option of including all fields or just specified fields. (See “Data quality and completeness checks” below).
- h. Software must execute a specified list of data quality checks when a user attempts to save a record and not allow the user to save the record if any of the conditions are true. See “Data Quality And Completeness Checks” below.

Note that starting with version 4.20.2, the “on-demand updates” for the valid values and harvest codes for valve and VAD device lists are no longer being used. The valid values for these fields are defined in the data specifications and will not change without a full specification upgrade.

## 2. Record management

Each record in the database describes one surgical case (i.e., one admission to the hospital). On each record, there are four key fields used for record management:

- a. Participant identification number (ParticID): Each group of surgeons collecting and entering data into a database for submission to the STS is assigned a 5-digit ParticID by the STS. In most cases, all data being entered into a database will be for one participating group, in which case all records will have the same value in this field. In these situations, the developer can have the software enter the value into the record automatically for the user.

In some situations however, more than one participating group will be entering their data into a single database. In these situations, the user should select the appropriate ParticID value from a drop down list (see “Categorical values specified by user” under the Data Source description in the “Explanation of Data Specification Terms”, below).

A value for ParticID is required and the software should ensure one exists on every record.

- b. Record identification number (RecordID): The RecordID field contains a unique numeric value that identifies the record in the database. This is an arbitrary number and must not be a value that could identify the patient, such as Social Security Number, Medical Record Number, etc. Once attached to a specific record, the value can never be changed, nor can it be reused if the record is deleted. The data warehouse uses the RecordID field to communicate record-specific data quality issues to the participants. Because of this, users must be able to select cases from their database for review using this field and the field must be labeled “RecordID” on the data entry screen. See also the special considerations necessary for this field when importing data from another database in the “Data Import” section, below.

Beginning with version 2.73 of the data specifications, the values generated by the software for the RecordID field must be a combination of three parts:

- The letter “V” to indicate vendor software
- A two-digit code assigned by the STS to uniquely identify the vendor
- An alphanumeric value that makes the identifier unique (such as a record counter).

For example, the software will generate a RecordID value of V01000001 for the first record and V01000002 for the second record. ‘V’ indicating vendor software, ‘01’ indicating a specific vendor, and the ‘000001’ or ‘000002’ to indicate the specific record within that specific site’s software.

The purpose of this feature is to allow sites to move their data from one version of a

software package to another, or from one vendor package to another, and maintain the referential integrity of their data records.

Together, the ParticID and the RecordID will affect a composite key, which is unique to each record throughout the national STS database.

- c. Data Version Number (DataVrsn): The DataVrsn field contains the data specifications version number under which the record is created. The value is automatically entered into the record by the software at the time the record is created. The value then can never be changed, even if the software is upgraded to a newer version of the specifications.

Once a record is created and a data version has been assigned to it, that record will always follow the rules defined by that version of the data specifications.

When a user selects a record for editing that has an older data version number, the software must follow the older data specification rules for editing that record. This includes controlling which fields are available to the user, which values are available for each field and the appropriate parent/child dependencies.

- d. Patient identification number (PatID): The PatID field contains a unique, arbitrary number to uniquely identify the patient in the database. If one patient has multiple admissions to the hospital, the records for each admission will contain the same PatID value. The number, once assigned to a patient, cannot be edited or reused if the patient records are ever deleted. In order to avoid issues of patient confidentiality in transferring records, the PatID value should not be any known identifier such as Social Security Number or Medical Record Number. A PatID value is required on every record regardless of the structure of the software's database.

Beginning with version 2.73 of the data specifications, the values generated by the software for the PatID field must be a combination of three parts:

- The letter “V” to indicate vendor software
- A two-digit code assigned by the STS to uniquely identify the vendor
- An alphanumeric value that makes the identifier unique (such as a record counter).

For example, the software will generate a PatID value of V01000001 for the first record and V01000002 for the second record. ‘V’ indicating vendor software, ‘01’ indicating a specific vendor, and the ‘000001’ or ‘000002’ to indicate the specific record within that specific site’s software.

The purpose of this feature is to allow sites to move their data from one version of a software package to another, or from one vendor package to another, and maintain the referential integrity of their data records.

### 3. Data entry

The software must have the following features to control the data being entered by the users:

- a. For export of data to the warehouse, most data fields have a default value, usually null or blank, which indicates that the data is "Missing" (see data specifications). For data entry purposes the site and vendor may choose to institute internal codes for "Missing" values. As the site drives the need for this feature, the STS data specifications do not define standard codes for "Missing" values during data entry. If a site applies data entry "Missing" codes, the harvest process must include a step that maps the missing code to the STS specification for "Missing" values (null or blank). Note: zero must never be used to indicate missing data.
- b. The user should always be able to delete entered data and return the field's value to the null or "Missing" value.
- c. For any field having specific values or a range of acceptable values defined, the software must restrict data entries to this set of values. For categorical variables this is expressed as a set of harvest codes and descriptions and the user must select from a pick list of these values. For numerical variables, this is expressed as a valid numeric range defined as a LowValue and HighValue, and the user must enter a value on or between the specified limits. If the user enters a value that is not one of the harvest codes or is outside of the defined range, the user must be given an error. The message should tell the user that the value is invalid and the invalid value will not be stored in the database.
- d. Where a numeric variable has a UsualRangeLow and UsualRangeHigh specified, if the user attempts to enter a value that is outside of that range but still inside the LowValue/HighValue range, the software must warn the user that they are entering an unusual value and ask if the entry is correct. If the user confirms that the value is correct, then it should be accepted into the field.
- e. Some categorical text fields are designed to have data values controlled by the user. This applies primarily to a few site-specific fields such as hospital name and surgeon name. These fields are indicated in the Data Specifications by their Format specifying "Text (categorical values specified by User)". The user should be able to maintain the pick list of valid data for these fields including the ability to add, change, or delete list elements. During data entry, the user should be able to enter only values that are in this pick list.

The process of maintaining the list should be separate from the data entry process. In other words, users must purposely add a value to the list to make it available for selection during data entry. If a user enters a value that is not on the list, it should be rejected and not automatically added to the list. The idea here is to avoid the possibility of users entering "free text" which causes unacceptable data quality issues at the warehouse.

It is important that the vendor support the site's ability to control these fields. Items in

the user list should not have more than one choice for the same entity. For example, the hospital names “General Memorial Hospital” and “GMH” should not represent select choices for the same hospital.

- f. Documentation including data definitions and help should be easily accessible to the user, preferably on-line.

#### 4.Importing data from other data sources

Although the data many participants are entering into their STS certified software may be gathered from another electronic data system at their site (such as an EMR), it is strictly against STS policy for vendors to provide the users with the means to import this data automatically. It is not practical for the STS to certify the mapping of data from each site’s EMR to the STS data specifications, which would be required to ensure the integrity of the overall STS database.

There are only two exceptions to this policy:

- a. Unique Device Identification (UDI) numbers can be imported from devices such as barcode readers. This applies to the following fields:

First Valve Explant Unique Device Identifier (UDI) [ValExpUDI]  
Second Valve Explant Device Unique Device Identifier (UDI) [ValExpDevUDI]  
Third Valve Explant Device Unique Device Identifier (UDI) [ValExpDev3UDI]  
VS-Aortic Proc-Imp - Unique Device Identifier (UDI) [VSAoImUDI]  
VS-Mitral Proc-Imp-Unique Device Identifier (UDI) [VSMiImUDI]  
VS-Tricuspid Proc-Imp-Unique Device Identifier (UDI) [VSTrImUDI]  
VS-Pulmonic Proc-Imp-Unique Device Identifier [VSPuImUDI]  
Previous VAD Unique Device Identifier (UDI) [PrevVADUDI]  
VAD-Implant Unique Device Identifier (UDI) [VImpUDI]  
VAD-Implant Unique Device Identifier (UDI) #2 [VImpUDI2]  
VAD-Implant Unique Device Identifier (UDI) #3 [VImpUDI3]  
Other Card- Epicardial Occlusion Device UDI [OCarAAUDI]  
Aortic Valve or Aortic Valve Composite Graft Implanted - Unique Device Identifier [AVAVCompGrImplUDIAo]  
Aorta Device - Unique Device Identifier #01 [ADevUDI01]  
Aorta Device - Unique Device Identifier #02 [ADevUDI02]  
Aorta Device - Unique Device Identifier #03 [ADevUDI03]  
Aorta Device - Unique Device Identifier #04 [ADevUDI04]  
Aorta Device - Unique Device Identifier #05 [ADevUDI05]  
Aorta Device - Unique Device Identifier #06 [ADevUDI06]  
Aorta Device - Unique Device Identifier #07 [ADevUDI07]  
Aorta Device - Unique Device Identifier #08 [ADevUDI08]  
Aorta Device - Unique Device Identifier #09 [ADevUDI09]  
Aorta Device - Unique Device Identifier #10 [ADevUDI10]  
Aorta Device - Unique Device Identifier #11 [ADevUDI11]  
Aorta Device - Unique Device Identifier #12 [ADevUDI12]

Aorta Device - Unique Device Identifier #13 [ADevUDI13]

Aorta Device - Unique Device Identifier #14 [ADevUDI14]

Aorta Device - Unique Device Identifier #15 [ADevUDI15]

- b. The following data fields can be imported from an Admission/Discharge/Transfer (ADT) system:

| LongName                                                                                                          | ShortName      |
|-------------------------------------------------------------------------------------------------------------------|----------------|
| Patient Last Name                                                                                                 | PatLName       |
| Patient First Name                                                                                                | PatFName       |
| Patient Middle Name                                                                                               | PatMName       |
| Date of Birth                                                                                                     | DOB            |
| Patient Age                                                                                                       | Age            |
| Sex                                                                                                               | Gender         |
| National Identification (Social Security Number) Known                                                            | SSNKnown       |
| National ID Number                                                                                                | SSN            |
| Medical Record Number                                                                                             | MedRecN        |
| Patient's Permanent Street Address                                                                                | PatAddr        |
| Patient's Permanent City                                                                                          | PatCity        |
| Patient's Permanent Region                                                                                        | PatRegion      |
| ZIP Code                                                                                                          | PatZIP         |
| Country                                                                                                           | PatientCountry |
| Race Documented<br>(Note, race can only be imported if the original data allows for selecting more than one race) | RaceDocumented |
| Race – Multi-Select                                                                                               | RaceMulti      |
| Hispanic or Latino or Spanish Ethnicity                                                                           | Ethnicity      |
| Date of admission                                                                                                 | AdmitDt        |
| OR Entry Date and Time                                                                                            | OREntryDT      |
| OR Exit Date and Time                                                                                             | ORExitDT       |
| Date of Discharge                                                                                                 | DischDt        |
| Mort-Date                                                                                                         | MtDate         |

## 5. Field dependencies

Field dependencies exist where one field (the “parent” field) controls whether or not one or more other fields (the “child” fields) can contain data. Child fields are indicated in the specifications by having their immediate parent field named in the "Parent Field" section of their specification. For example, “Cerebrovascular Disease” is a parent field to its child “Prior CVA”. The following guidelines must be followed to handle dependent fields:

- a. If the data value of a parent field indicates that no data should be in its dependent fields, then those dependent fields should be unavailable on the data entry screen. In the example above, only if “Cerebrovascular Disease” = “Yes” should “Prior CVA” be available for data entry.
- b. If a parent field indicates that no data should be in its dependent field, vendors must set all child fields to Null. **Note that in prior versions of the Software Specifications, vendors had the option of setting child field values to “No” provided those fields were set to Null during data extract. This has caused parent/child issues to appear in site data, so this practice is no longer acceptable.**
- c. If a parent field is originally set to “Yes”, then values can be entered into its child fields. If the record is subsequently edited by the user and the parent value is changed to “No”, **the values in the child fields must be automatically changed to Null.**
- d. Reporting on missing data values needs to be handled differently in dependent (child) fields, since its meaning depends upon the data value of the parent field. See “Data quality and completeness checks” below for a full description of how this should be handled.

## 6. Data quality and completeness checks

The software must provide the users with a utility for checking the accuracy and completeness of their data that includes the following features:

Data quality checks can be run during data entry and/or on demand for groups of records as specified by the user. This utility produces a data quality report indicating which records and fields failed the data checks. This report is used by the site data manager to review and potentially repair the data.

- a. Certified software must contain a utility for checking and reporting on data completeness. This utility must include the following features:
  - i) The user must be able to identify in a list the fields that they want to have

checked for completeness. The user should be able to select just one field, all fields, or any number of fields desired (by default, the utility should report on ALL fields). It is recommended that user should be able to save the selected list so as not to have to go through the selection process again the next time data quality is being checked.

- ii) The utility should report on individual records or groups of records (recommend grouping by surgery date range) as specified by the user.
- iii) The utility must take into consideration dependent fields when checking for completeness. For fields defined as “child” fields of a “parent” field, the child is considered missing only if the parent is answered to indicate that data should be in its dependent fields and the child field contains no data. Following this guideline will restrict reporting missing data to only those situations where data is clinically expected.
- iv) In some cases, specific fields can be group together to be examined for completeness and reported as one group instead of reporting on each individual field. This can be done in cases where the group of fields are clinically related to each other and the user is likely to enter values for only one of the fields. The following table defines the field groupings for data version 4.20.2:

| Report this Group missing: | When this condition is met:                                                                                                                                                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Intraoperative TEE Results | InOpTEE = Yes AND<br>PRepAR is missing AND<br>PRepAGradM is missing AND<br>PRepAPVL is missing AND<br>PRepMR is missing AND<br>PRepMGradM is missing AND<br>PRepMPVL is missing AND<br>PRepTR is missing AND<br>PRepTGradM is missing AND<br>PRepTPVL is missing AND<br>PPEFMeas is missing |

|                                  |                                                                                                                                                                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Prior Aortic Repair Location     | (PriorAorta = Yes) AND<br>(PriorRepRoot = No or is missing) AND<br>(PriorRepAsc = No or is missing) AND<br>(PriorRepArch = No or is missing) AND<br>(PriorRepDesc = No or is missing) AND<br>(PriorRepSupraAb = No or is missing) AND<br>(PriorRepInfraAb = No or is missing) |
| Prior Aortic Repair Type         | PriorAorta = Yes AND<br>PriorRepTyRoot is missing AND<br>PriorRepTyAsc is missing AND<br>PriorRepTyArch is missing AND<br>PriorRepTyDesc is missing AND<br>PriorRepTySupraAb is missing AND<br>PriorRepTyInfraAb is missing                                                   |
| Prior Aortic Repair Failure      | PriorAorta = Yes AND<br>PriorFailRoot is missing AND<br>PriorFailAsc is missing AND<br>PriorFailArch is missing AND<br>PriorFailDesc is missing AND<br>PriorFailSupraAb is missing AND<br>PriorFailInfraAb is missing                                                         |
| Prior Aortic disease Progression | PriorAorta = Yes AND<br>PriorProgRoot is missing AND<br>PriorProgAsc is missing AND<br>PriorProgArch is missing AND<br>PriorProgDesc is missing AND<br>PriorProgSupraAb is missing AND<br>PriorProgInfraAb is missing                                                         |
| Endoleak Type                    | Endoleak = Yes AND<br>EndoleakTypeI is missing AND<br>EndoleakTypeII is missing AND<br>EndoleakTypeIII is missing AND<br>EndoleakTypeIV is missing AND<br>EndoleakTypeV is missing                                                                                            |
| Post Op Echo Results             | POpTTEch = Yes AND<br>POpTTAR is missing AND<br>POpAortParaLk is missing AND<br>POpTTMR is missing AND<br>POpMitParaLk is missing AND<br>POpTTTR is missing AND<br>POpTTPu is missing                                                                                         |

|                     |                                                                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aortic Complication | AorticComp = Yes AND<br>CVaAoDis is missing AND<br>CVaAoDisTy is missing AND<br>COtAortEndo is missing AND<br>COtAortSide is missing AND<br>COtAortTear is missing |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- b. Certified software must run quality control checks at the time the user attempts to save a new or modified record. The quality checks to be run are defined in the associated document “STS Adult Cardiac On-Save Quality Checks”. If any of the checks are met (i.e., return a value of True) the user must be presented with the appropriate error message and the record should not be saved. The user should not be able to leave the record until the issue has been corrected or all changes have been voided.

## 7. Data Import

- a. Software must be able to import data in standard file formats from third party applications. At a minimum, this must include delimited, ASCII text files. Other common formats (e.g. Excel or MS Access) are also recommended. This functionality is to only be used on STS-approved basis for data migration. Any other use requires STS approval. This utility should only be used when a user first purchases a new certified software package and wants to import the data they had been collecting up to that time in a different package. Once the old data has been imported into the new package, all future data should be entered directly into the new package via the data entry screens and no additional data should be imported. Using the import feature to regularly import data so that it can be exported in the STS format for submission to the Data Warehouse (i.e., importing data from an EHR system) is strictly against the STS policies.
- b. Data that is imported will require controlled conversion to an acceptable STS data version. The conversion process must include reviewing the data for consistency with the STS data (i.e. mapping the categorical values in the imported data to the appropriate STS values). The site data manager and software vendor hold responsibility for the accuracy (both clinical definition and harvest format) of all imported data harvested to the warehouse. The software will assign to each imported record the STS data version number to which the data is converted. The data version to which the data is converted must be appropriate for the date of surgery for that record. The warehouse will handle data according to the STS data version number on each observation in a harvest file regardless of whether it was created in the software’s data entry utility or imported from another source.
- c. Special consideration is needed for the values in the RecordID field when importing data. This is especially true when importing data that was previously submitted to the data warehouse (i.e. data from another certified software package). RecordID values

must never change once they are assigned to a record. The software developers and data managers must ensure that the values in the imported data do not change in the conversion process, and that they do not cause duplication of values with any existing records. Developers must also ensure that new records created after the data has been imported are not assigned RecordID values that already exist in the data. If data is to be imported that would cause a conflict in this manner, the software developer must contact the Data Warehouse to determine what steps need to be taken.

## 8. Record subsets and queries

Software must allow users to search for Individual records selected by RecordID or by patient identifiers including patient name and surgery date. Users should also be able to construct more general queries including field selection, record selection, sorting, and summarizing. It is acceptable if this function is provided by a third party application (e.g. MS Access or Crystal Reports).

## 9. Reporting

Software should provide the users with reporting abilities that can do the following:

- a. View and print a data completeness report listing the records having missing fields and which fields are missing from each record.
- b. Build, save, copy, and modify more general reports with capability to select fields, record subsets, sorting, and summary statistics. (It is acceptable if this function is provided by a third party application, such as MS Access or Crystal Reports).
- c. Data harvest procedure provides the site with a report documenting the following:
  1. whether or not the extract completed successfully
  2. number of records extracted
  3. time frame of the data extract (by date of surgery)
  4. date the data extraction was performed
  5. name of the person who performed the data extraction

## 10. Data export for analysis by users

The software must allow users to export their data for their own use in the following manner:

- a. Software must be able to export data in standard file formats suitable for transfer into third party applications. This must include at a minimum bar-delimited, ASCII text, and optionally other common formats such as Excel and Access. Developers should keep in mind that sites may need to export

their data for reasons other than the STS data harvests.

- b. User should be able to choose whether an export includes all data or selected records and fields. Users must be able to select any field in their database including custom fields and other non-STs fields.
- c. If data is coded for internal storage (e.g. text string is stored as a number), the data must be able to be decoded when written to the export file so that actual values (e.g. full text strings) are contained in export file. The user can decide which format should be used for each export file.
- d. Export files must identify the data fields using field names (i.e., the STS ShortName or LongName) that are familiar to the users.
- e. User can control export file naming convention.

## 11. Data export for harvest to the data warehouse

As one of the key reasons for having certified software, the software must allow users to export their data for submission to the STS data warehouse following these exact guidelines:

- a. The user must be able to specify the records to be exported for harvest by using range limits for the surgery date.
- b. Note that users must not be able to select individual records for exporting (for example, by RecordID value). It is acceptable for users to extract data for one specific day by specifying the same date value for the beginning and ending dates of the requested export time period. If there is only one record with that surgery date, then it is acceptable that the export file would contain only that one record. However, users must not be able to pick only one record for export as this would cause other records at the Data Warehouse for that date to be deleted from the database.
- c. The Data Harvest file exported must adhere to this specific format:
  - 1. File is an ASCII text file with vertical bar delimiters
  - 2. The first row is a "header" record containing the STS short field names in the same sequence as the data fields in subsequent rows
  - 3. Each subsequent row represents one data record describing one surgical case
- c. Only a single harvest file for each participant can be submitted to the warehouse for processing. Participants may submit repeatedly during a harvest, but each submission is only one file.

- d. The extracted file must contain data for only one participant ID (ParticID) value. If the site's database contains data for more than one participant, all of which is to be submitted to the warehouse, the software must extract the data for each ParticID into separate data files each with an appropriate file name (see below).
- e. The harvest file must include all fields, and only those fields, defined in the data specifications with Core = "Yes" and Harvest = "Yes" or "Optional" for all STS data versions within the harvest file. In other words, a file containing v2.9 and v4.20.2 records would contain all fields where Core is "Yes" and Harvest is "Yes" or "Optional" for either version of the specifications (more information on submitting data from multiple data versions is given below). Fields with Core="No" or Harvest="No" and site-specific or custom fields must not be included in the export file.
- f. Fields that are defined as Core = Yes and Harvest = Optional must be included in the data file. What is "optional" is whether or not the field contains data. By default, the software should include all data for optional fields. If the user specifies that an optional field should not be included, the data file will include the field but every record will contain a blank (null) in that field. This is necessary for the warehouse to be able to tell the difference between a field being left out by mistake and a site opting not to include that data.
- g. The values in the harvest file must be the "Harvest Coding" of the data values and not the full text strings.
- h. A harvest report should be produced whenever a data harvest is performed (see "Reporting", above).
- i. **Note that starting with data version 4.20.2, the naming convention to be used for extract files has changed.** The software must create the exported data file using the file naming convention of XXXXXadt\_YYYYMMDDhhmm.dat where:
- XXXXX is the 5-digit ParticID for the data in the file
  - YYYY is year portion of the date on which the extract was created
  - MM is the 2-digit numeric month portion of the date on which the extract was created (with leading zeros as needed)
  - DD is the 2-digit numeric day portion of the date on which the extract was created (with leading zeros as needed)
  - hh is the 2-digit numeric hour portion of the date on which the extract was created (using a 24-hour clock with leading zeros as needed)
  - mm is the 2-digit numeric minute portion of the date on which the extract was created (using a 24-hour clock with leading zeros as needed)

For example, if participant 12345 creates an export file on September 6, 2020 at 3:05 pm (local time), the extract file must be named "12345adt\_202009061505.dat".

The user must not specify the file naming convention. Files not using this naming convention will not be accepted by the automated process at the Data Warehouse.

When records from more than one data version are being exported for an STS data harvest, the file must adhere to the following format:

- a. The first record of the file must be the one and only "header" record containing the STS short field names in the same sequence as the data fields in subsequent rows.
- b. Every data record in the file must contain the same fields which will consist of a superset of the Core, Harvested fields from all included data versions.
- c. On each data record, the fields that are Core and Harvested for the data version specified in the DataVrsn field will contain data values as available and appropriate. The fields that are not Core or not Harvested for that data version will contain nulls (blanks). When the data is being processed by the warehouse, only the fields appropriate for the data version specified on the record will be included.

For an example of a data file containing more than one data version, consider a data file being submitted with records having data versions 2.9 and 4.20.2. The software will produce one data file with one header record that will identify all of the Core / Harvested fields for both versions, including "Patient Age" (Age), "Race - Other" (RaceOther), and "Race – Multi-Select" (RaceMulti). The Age field is Core to both 2.9 and 4.20.2. RaceOther is Core for 2.9 but is not Core in 4.20.2. RaceMulti didn't exist in 2.9 but is a Core field in 4.20.2. A data record in the extracted file that has a DataVrsn value of 2.9 should contain a value in Age and RaceOther, but would contain a null in RaceMulti. A data record that has a DataVrsn value of 4.20.2 should contain a value in Age and RaceMulti, but would contain a null in RaceOther.

## 12. Customization

It is up to the developer's discretion as to whether or not the users will have the ability to add customized fields to their software and database. If the user will have this ability, the following items must be considered:

- a. In no case can the field names, short field names, or categorical data values specified by the STS be customized or modified by the users. (Please note however in the STS specifications that users can build the categorical data values for certain fields such as Hospital Name, see "Data entry", above.)
- b. Fields added by users must not be included in the data file exported for submission to the STS data warehouse.
- c. Developers should make clear to the potential users whether users can add custom fields themselves, or if they will require contracted work by the developer.

- d. It should be possible for users of customizable software to import custom fields that they might have created in a previous database or software package.
- e. Most importantly, developers who allow users to add customized fields must keep in mind that software upgrades will be necessary from time to time as new versions of the data specifications become available. These changes include adding new fields, discontinuing fields, and moving fields to a new location. It is the developer's responsibility to handle how a user's customization is incorporated when their software is being upgraded.

### 13. Combining collection of STS and non-STs database fields

Developers who design their software to collect data for more than just the STS Adult Cardiac database must not combine fields from other databases with the STS fields unless it is explicitly stated by the STS that the fields are the same in definition and coding. Contact the STS to determine what, if any non-STs fields can be mapped in this manner.

### 14. On-demand updates

Starting with the v4.20.2, the STS is no longer using this feature.

#### Appendix A: Body Mass Index (BMI):

Starting with version 4.20.2, software must be able to calculate the Body Mass Index (BMI) score for each patient. The results from this calculation are entered by the software into the field “System calculated BMI” (CalculatedBMI). The value of this score is calculated using the values entered by the user into the fields “Weight (kg)” (WeightKg) and “Height (cm)” (HeightCm) using the following formula:

$$\text{CalculatedBMI} = \text{WeightKg} / ((\text{HeightCm}/100))^2$$

## Appendix B: Calculation of MELD scores

Starting with version 2.73, software must be able to calculate the MELD score for each patient. The results from this calculation are entered by the software into the field “MELD Score” (MELDS<sub>Scr</sub>). The value of this score is calculated using the values entered by the user into the three fields “Total Bilirubin” (TotBlr<sub>bn</sub>), “INR” (INR), and “Last Creatinine Level” (CreatL<sub>st</sub>). The patient’s dialysis status “RF-Renal Fail-Dialysis” (Dialysis) is also considered in the calculation.

The calculation can be made by creating a “factor” for each of the three variables involved in the score. The value of the variable is used to determine the value of the factor. The factors are then used in a formula to determine the MELD score. The algorithm for determining the value of each factor is as follows:

If Total Bilirubin is >0 and ≤1 then bilirubin\_factor = 1  
otherwise, if Total Bilirubin is >1, then bilirubin\_factor = the specified Total Bilirubin value.

If INR is >0 and ≤1 then inr\_factor = 1  
otherwise, if INR is > 1, then inr\_factor = the specified INR value.

if RF-Renal Fail-Dialysis=Yes, then creatinine\_factor = 4  
otherwise, if Last Creatinine Level is >0 and ≤1 then creatinine\_factor = 1  
    otherwise, if Last Creatinine Level is >1 and ≤4, then creatinine\_factor = the Last Creatinine Level value  
    otherwise, if Last Creatinine Level is >4, then creatinine\_factor = 4

After determining the three factors, the calculation is done using the formula:

$$\text{MELDS}_{\text{Scr}} = (3.8 \times \text{Ln}([\text{bilirubin\_factor}])) + (11.2 \times \text{Ln}([\text{inr\_factor}])) + (9.6 \times \text{Ln}([\text{creatinine\_factor}])) + 6.4$$

Note that “Ln” refers to the mathematical “natural log” function.

No score should be calculated if any of the following conditions are true:

- Total Bilirubin is missing
- INR is missing
- Last Creatinine Level is missing and RF-Renal Fail-Dialysis = No or is missing

## Appendix C: Calculation of Total Postoperative Initial Ventilation Hours

Starting with v4.20.2, software must be able to calculate the Total Postoperative Initial Ventilation Hours. The results of this calculation are entered by the software into the field “Total Postoperative Initial Ventilation Hour” (TotalPOInitVentHr). The value of this field is calculated by finding the number of **hours between “OR Exit Date and Time” (ORExitDT) and “Initial Extubation Date And Time” (ExtubateDT).** ~~Value should be stored in decimal format with at least two decimal places. This value is zero for patients extubated in OR or not intubated for procedure (ExtubOR = Yes or N/A (not intubated)).~~

- If either ORExitDT or ExtubateDT are missing, TotalPOInitVentHr is left missing.
- The difference between ORExitDT and ExtubateDT must not be rounded.
- If ExtubOR=”Yes” or “N/A”, TotalPOInitVentHr must be set to zero.
- Final calculation should include at least two decimal places.

## Appendix D: Calculation of Total Postoperative Ventilation Hours

*Please note that with the upgrade to v4.20.2, the method used to calculate Total Postoperative Ventilation Hours has changed.*

Software must be able to calculate the value for the field “Total Postoperative Ventilation Hours” (VentHrsTot). This calculation uses the following fields:

- OR Exit Date And Time (ORExitDT)
- Extubated In OR (ExtubOR)
- Initial Extubation Date and Time (ExtubateDT)
- Additional Hours Ventilated (VentHrsA)

The calculation for the total ventilation hours is performed by calculating the number of hours between ORExitDT and ExtubateDT and adding the number of additional hours specified in VentHrsA. The equation for calculating Total Postoperative Ventilation Hours must take the following into consideration:

- If either ORExitDT or ExtubateDT are missing, VentHrsTot is left missing (regardless of whether or not there is a value in VentHrsA).
- The difference between ORExitDT and ExtubateDT must not be rounded.
- If VentHrsA has no value, then VentHrsTot must be just the difference between ORExitDT and ExtubateDT.
- If ExtubOR=Yes then zero should be used for this part of the calculation and added to any additional hours (VentHrsA) to generate the total postoperative hours.
- If ExtubOR = N/A (i.e., the patient was not intubated for the operation, but may have been intubated after leaving the OR), then zero should be used for this part of the calculation and added to any additional hours (VentHrsA) to generate the total postoperative hours.
- Final calculation should include at least two decimal places.

## Appendix E: Calculation of Total Circulatory Arrest Time

Starting with v2.81, software must be able to calculate the value for the field “Total Circulatory Arrest Time” (TotCircArrTm). This calculation uses the following fields:

- Circulatory Arrest Time Without Cerebral Perfusion (DHCATm)
- Cerebral Perfusion Time (CPerfTime)

The calculation for the total circulatory arrest time is performed by adding DHCATm and CPerfTime. The equation for calculating Total Circulatory Arrest Time must take the following into consideration:

- If DHCATm has no value, TotCircArrTm is set to missing, regardless of whether there is a value in CPerfTime.
- CPerfTime might not have a value because the field Circulatory Arrest With Cerebral Perfsuion (CPerfUtil) is No. CPerfTime might also not have a value, even if (CPerfUtil) is Yes. In either of these cases, TotCircArrTm would be set to the value in DHCATm.

## Appendix F: Field ShortName and SeqNo by DataVrsn.

The following table lists all fields that have been collected in the STS Adult CV Database since 1999. The sequence number (SeqNo) of each field for a given version of the specifications is specified under the version number. If no sequence number is specified, the field was not a Core field for that version of the specifications.

| ShortName       | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-----------------|------|------|--------|------|------|------|------|--------|
| AbxDisc         |      |      |        | 1347 | 2730 | 2290 | 2290 | 2290   |
| AbxSelect       |      |      |        | 1345 | 2710 | 2280 | 2280 | 2280   |
| AbxTiming       |      |      |        | 1346 | 2720 | 2285 | 2285 | 2285   |
| AddIntraopPAnti |      |      |        |      |      | 2295 | 2295 |        |
| ADevDelMeth01   |      |      |        |      |      |      | 5455 | 5455   |
| ADevDelMeth02   |      |      |        |      |      |      | 5480 | 5480   |
| ADevDelMeth03   |      |      |        |      |      |      | 5505 | 5505   |
| ADevDelMeth04   |      |      |        |      |      |      | 5530 | 5530   |
| ADevDelMeth05   |      |      |        |      |      |      | 5555 | 5555   |
| ADevDelMeth06   |      |      |        |      |      |      | 5580 | 5580   |
| ADevDelMeth07   |      |      |        |      |      |      | 5605 | 5605   |
| ADevDelMeth08   |      |      |        |      |      |      | 5630 | 5630   |
| ADevDelMeth09   |      |      |        |      |      |      | 5655 | 5655   |
| ADevDelMeth10   |      |      |        |      |      |      | 5680 | 5680   |
| ADevDelMeth11   |      |      |        |      |      |      | 5705 | 5705   |
| ADevDelMeth12   |      |      |        |      |      |      | 5730 | 5730   |
| ADevDelMeth13   |      |      |        |      |      |      | 5755 | 5755   |
| ADevDelMeth14   |      |      |        |      |      |      | 5780 | 5780   |
| ADevDelMeth15   |      |      |        |      |      |      | 5805 | 5805   |
| ADevIns         |      |      |        |      |      |      | 5440 | 5440   |
| ADevLoc01       |      |      |        |      |      |      | 5450 | 5450   |
| ADevLoc02       |      |      |        |      |      |      | 5475 | 5475   |
| ADevLoc03       |      |      |        |      |      |      | 5500 | 5500   |
| ADevLoc04       |      |      |        |      |      |      | 5525 | 5525   |
| ADevLoc05       |      |      |        |      |      |      | 5550 | 5550   |
| ADevLoc06       |      |      |        |      |      |      | 5575 | 5575   |
| ADevLoc07       |      |      |        |      |      |      | 5600 | 5600   |
| ADevLoc08       |      |      |        |      |      |      | 5625 | 5625   |
| ADevLoc09       |      |      |        |      |      |      | 5650 | 5650   |
| ADevLoc10       |      |      |        |      |      |      | 5675 | 5675   |
| ADevLoc11       |      |      |        |      |      |      | 5700 | 5700   |
| ADevLoc12       |      |      |        |      |      |      | 5725 | 5725   |

| ShortName   | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-------------|------|------|--------|------|------|------|------|--------|
| ADevLoc13   |      |      |        |      |      |      | 5750 | 5750   |
| ADevLoc14   |      |      |        |      |      |      | 5775 | 5775   |
| ADevLoc15   |      |      |        |      |      |      | 5800 | 5800   |
| ADevModel01 |      |      |        |      |      |      | 5465 | 5465   |
| ADevModel02 |      |      |        |      |      |      | 5490 | 5490   |
| ADevModel03 |      |      |        |      |      |      | 5515 | 5515   |
| ADevModel04 |      |      |        |      |      |      | 5540 | 5540   |
| ADevModel05 |      |      |        |      |      |      | 5565 | 5565   |
| ADevModel06 |      |      |        |      |      |      | 5590 | 5590   |
| ADevModel07 |      |      |        |      |      |      | 5615 | 5615   |
| ADevModel08 |      |      |        |      |      |      | 5640 | 5640   |
| ADevModel09 |      |      |        |      |      |      | 5665 | 5665   |
| ADevModel10 |      |      |        |      |      |      | 5690 | 5690   |
| ADevModel11 |      |      |        |      |      |      | 5715 | 5715   |
| ADevModel12 |      |      |        |      |      |      | 5740 | 5740   |
| ADevModel13 |      |      |        |      |      |      | 5765 | 5765   |
| ADevModel14 |      |      |        |      |      |      | 5790 | 5790   |
| ADevModel15 |      |      |        |      |      |      | 5815 | 5815   |
| ADevOut01   |      |      |        |      |      |      | 5460 | 5460   |
| ADevOut02   |      |      |        |      |      |      | 5485 | 5485   |
| ADevOut03   |      |      |        |      |      |      | 5510 | 5510   |
| ADevOut04   |      |      |        |      |      |      | 5535 | 5535   |
| ADevOut05   |      |      |        |      |      |      | 5560 | 5560   |
| ADevOut06   |      |      |        |      |      |      | 5585 | 5585   |
| ADevOut07   |      |      |        |      |      |      | 5610 | 5610   |
| ADevOut08   |      |      |        |      |      |      | 5635 | 5635   |
| ADevOut09   |      |      |        |      |      |      | 5660 | 5660   |
| ADevOut10   |      |      |        |      |      |      | 5685 | 5685   |
| ADevOut11   |      |      |        |      |      |      | 5710 | 5710   |
| ADevOut12   |      |      |        |      |      |      | 5735 | 5735   |
| ADevOut13   |      |      |        |      |      |      | 5760 | 5760   |
| ADevOut14   |      |      |        |      |      |      | 5785 | 5785   |
| ADevOut15   |      |      |        |      |      |      | 5810 | 5810   |
| ADevUDI01   |      |      |        |      |      |      | 5470 | 5470   |
| ADevUDI02   |      |      |        |      |      |      | 5495 | 5495   |
| ADevUDI03   |      |      |        |      |      |      | 5520 | 5520   |
| ADevUDI04   |      |      |        |      |      |      | 5545 | 5545   |
| ADevUDI05   |      |      |        |      |      |      | 5570 | 5570   |
| ADevUDI06   |      |      |        |      |      |      | 5595 | 5595   |

| ShortName             | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-----------------------|------|------|--------|------|------|------|------|--------|
| ADevUDI07             |      |      |        |      |      |      | 5620 | 5620   |
| ADevUDI08             |      |      |        |      |      |      | 5645 | 5645   |
| ADevUDI09             |      |      |        |      |      |      | 5670 | 5670   |
| ADevUDI10             |      |      |        |      |      |      | 5695 | 5695   |
| ADevUDI11             |      |      |        |      |      |      | 5720 | 5720   |
| ADevUDI12             |      |      |        |      |      |      | 5745 | 5745   |
| ADevUDI13             |      |      |        |      |      |      | 5770 | 5770   |
| ADevUDI14             |      |      |        |      |      |      | 5795 | 5795   |
| ADevUDI15             |      |      |        |      |      |      | 5820 | 5820   |
| AdmitDt               | 320  | 320  | 260    | 260  | 570  | 305  | 305  | 305    |
| AdmitSrc              |      |      |        |      | 580  | 320  | 320  | 320    |
| AFibLeftAtrialLes     |      |      |        |      |      |      |      | 4242   |
| AFibLeftAtrialLesMeth |      |      |        |      |      |      |      | 4244   |
| AFibLes1              |      |      |        |      |      | 4250 | 4250 |        |
| AFibLes10             |      |      |        |      |      | 4300 | 4300 |        |
| AFibLes11             |      |      |        |      |      | 4305 | 4305 |        |
| AFibLes12             |      |      |        |      |      | 4310 | 4310 |        |
| AFibLes13             |      |      |        |      |      | 4315 | 4315 |        |
| AFibLes14             |      |      |        |      |      | 4320 | 4320 |        |
| AFibLes15a            |      |      |        |      |      | 4325 | 4325 |        |
| AFibLes15b            |      |      |        |      |      | 4330 | 4330 |        |
| AFibLes16             |      |      |        |      |      | 4335 |      |        |
| AFibLes2              |      |      |        |      |      | 4255 | 4255 |        |
| AFibLes3a             |      |      |        |      |      | 4260 | 4260 |        |
| AFibLes3b             |      |      |        |      |      | 4265 | 4265 |        |
| AFibLes4              |      |      |        |      |      | 4270 | 4270 |        |
| AFibLes5              |      |      |        |      |      | 4275 | 4275 |        |
| AFibLes6              |      |      |        |      |      | 4280 | 4280 |        |
| AFibLes7              |      |      |        |      |      | 4285 | 4285 |        |
| AFibLes8              |      |      |        |      |      | 4290 | 4290 |        |
| AFibLes9              |      |      |        |      |      | 4295 | 4295 |        |
| AFibLesMeth           |      |      |        |      |      |      |      | 4201   |
| AFibProc              |      |      |        |      |      | 2145 | 2145 | 2145   |
| AFibProcSurgInput     |      |      |        |      |      |      | 2146 | 2146   |
| AFibRtAtrialLes       |      |      |        |      |      |      |      | 4246   |
| AFibRtAtrialLesMeth   |      |      |        |      |      |      |      | 4248   |
| AFitLesCSL            |      |      |        |      |      |      | 4336 |        |
| Age                   | 120  | 120  | 140    | 140  | 140  | 70   | 70   | 70     |
| AnasDev               |      |      | 1550   | 1550 |      |      |      |        |

| ShortName         | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-------------------|------|------|--------|------|------|------|------|--------|
| AnasDevU          |      |      | 1540   | 1540 |      |      |      |        |
| AnesEndDT         |      |      |        |      |      | 2275 | 2275 |        |
| AnEtilogy         |      |      |        |      |      |      | 4720 | 4720   |
| AnLoc             |      |      |        |      |      |      | 4740 | 4740   |
| AnlrEnl           |      |      | 1670   | 1670 | 4310 | 3460 | 3460 | 3460   |
| AnlrEnlAo         |      |      |        |      |      |      |      | 4960   |
| AnlrEnlTech       |      |      |        |      |      |      | 3461 | 3461   |
| AnlrEnlTechAo     |      |      |        |      |      |      |      | 4961   |
| AnRupt            |      |      |        |      |      |      | 4730 | 4730   |
| AnRuptCon         |      |      |        |      |      |      | 4735 | 4735   |
| AnType            |      |      |        |      |      |      | 4725 | 4725   |
| AoDisAc           |      |      |        |      | 5516 |      |      |        |
| AoDisTyp          |      |      |        |      | 5517 |      |      |        |
| AortaDisZone      |      |      |        |      |      |      | 5035 | 5035   |
| AortaInterReimp   |      |      |        |      |      |      | 5030 | 5030   |
| AortaViscCel      |      |      |        |      |      |      | 5050 | 5050   |
| AortaVisceral     |      |      |        |      |      |      | 5045 | 5045   |
| AortaViscRenL     |      |      |        |      |      |      | 5065 | 5065   |
| AortaViscRenR     |      |      |        |      |      |      | 5060 | 5060   |
| AortaViscSup      |      |      |        |      |      |      | 5055 | 5055   |
| AorticImplant     |      |      |        |      |      | 3470 | 3472 | 3472   |
| AorticImplantTy   |      |      |        |      |      | 3475 |      |        |
| AorticTraumaLoc   |      |      |        |      |      |      |      | 4676   |
| AortOccl          | 3880 | 3880 | 1400   | 1400 | 2870 | 2430 | 2430 | 2430   |
| AortPresNeuroDef  |      |      |        |      |      |      |      | 4711   |
| AortProc          |      |      |        |      |      | 2150 | 2128 | 2123   |
| AortProcAsc       |      |      |        |      |      | 4345 |      |        |
| AortProcCoil      |      |      |        |      |      | 4400 |      |        |
| AortProcDesDist   |      |      |        |      |      | 4370 |      |        |
| AortProcDesMid    |      |      |        |      |      | 4365 |      |        |
| AortProcDesProx   |      |      |        |      |      | 4360 |      |        |
| AortProcHemi      |      |      |        |      |      | 4350 |      |        |
| AortProcOther     |      |      |        |      |      | 4410 |      |        |
| AortProcRoot      |      |      |        |      |      | 4340 |      |        |
| AortProcSurgInput |      |      |        |      |      |      | 2129 | 2124   |
| AortProcTEVAR     |      |      |        |      |      | 4405 |      |        |
| AortProcThora     |      |      |        |      |      | 4375 |      |        |
| AortProcTotArch   |      |      |        |      |      | 4355 |      |        |
| AoTrTyp           |      |      |        |      | 5518 |      |      |        |

| ShortName             | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-----------------------|------|------|--------|------|------|------|------|--------|
| ApproachCon           |      |      |        |      |      | 2105 | 2105 | 2105   |
| ArchAbLtSub           |      |      |        |      |      |      | 4885 |        |
| ArchAbRtSub           |      |      |        |      |      |      | 4884 |        |
| ArchAnom              |      |      |        |      |      |      |      | 4881   |
| ArchAnomTy            |      |      |        |      |      |      |      | 4882   |
| ArchBovine            |      |      |        |      |      |      | 4887 |        |
| ArchBranInnom         |      |      |        |      |      |      | 5000 |        |
| ArchBranLComm         |      |      |        |      |      |      | 5005 |        |
| ArchBranLSub          |      |      |        |      |      |      | 5010 |        |
| ArchBranLVert         |      |      |        |      |      |      | 5011 |        |
| ArchBranOth           |      |      |        |      |      |      | 5012 |        |
| ArchBranRComm         |      |      |        |      |      |      | 5002 |        |
| ArchBranReimp         |      |      |        |      |      |      | 4995 | 4995   |
| ArchBranReimpLoc      |      |      |        |      |      |      |      | 4996   |
| ArchBranRSub          |      |      |        |      |      |      | 5001 |        |
| ArchDiscSite          |      |      |        |      |      |      | 4985 | 4985   |
| ArchDisExt            |      |      |        |      |      |      | 4990 | 4990   |
| ArchDisTech           |      |      |        |      |      |      | 4980 | 4980   |
| ArchKom               |      |      |        |      |      |      | 4886 |        |
| ArchPatIMA            |      |      |        |      |      |      | 4889 | 4889   |
| ArchProc              |      |      |        |      |      |      | 4975 | 4975   |
| ArchProxLoc           |      |      |        |      |      |      |      | 4976   |
| ArchType              |      |      |        |      |      |      | 4882 |        |
| ArchVarVertOr         |      |      |        |      |      |      | 4888 |        |
| ArrivalDt             |      |      |        |      | 550  |      |      |        |
| ArrivalTm             |      |      |        |      | 560  |      |      |        |
| ArtCannInsertSite     |      |      |        |      |      |      |      | 2336   |
| AscAsymDil            |      |      |        |      |      |      | 4891 | 4891   |
| AscProxGr             |      |      |        |      |      |      | 4892 | 4892   |
| AsmtAoDx              |      |      |        |      | 3020 | 2500 | 2500 |        |
| AsmtAoDxMeth          |      |      |        |      |      |      | 2497 |        |
| AsmtAPIn              |      |      |        |      | 3030 | 2505 | 2505 |        |
| AsmtAscAA             |      |      |        |      | 3010 | 2495 | 2495 |        |
| AVAortaProcPerf       |      |      |        |      |      |      |      | 2132   |
| AVAVCompGraftImplAo   |      |      |        |      |      |      |      | 5441   |
| AVAVCompGrImplModelAo |      |      |        |      |      |      |      | 5442   |
| AVAVCompGrImplSizeAo  |      |      |        |      |      |      |      | 5443   |
| AVAVCompGrImplUDIAo   |      |      |        |      |      |      |      | 5444   |
| AVProcRepType         |      |      |        |      |      |      |      | 3424   |

| ShortName            | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|----------------------|------|------|--------|------|------|------|------|--------|
| AVProcRepTypeAo      |      |      |        |      |      |      |      | 4958   |
| AVReplNonCorSin      |      |      |        |      |      |      |      | 3471   |
| AVReplNonCorSinAo    |      |      |        |      |      |      |      | 4962   |
| AVSurgProsthValInt   |      |      |        |      |      |      |      | 3425   |
| AVSurgProsthValIntAo |      |      |        |      |      |      |      | 4959   |
| CAB02                |      |      |        |      | 3440 | 2770 | 2770 | 2770   |
| CAB03                |      |      |        |      | 3530 | 2830 | 2830 | 2830   |
| CAB04                |      |      |        |      | 3620 | 2890 | 2890 | 2890   |
| CAB05                |      |      |        |      | 3710 | 2950 | 2950 | 2950   |
| CAB06                |      |      |        |      | 3800 | 3010 | 3010 | 3010   |
| CAB07                |      |      |        |      | 3890 | 3070 | 3070 | 3070   |
| CAB08                |      |      |        |      | 3980 | 3130 | 3130 | 3130   |
| CAB09                |      |      |        |      | 4070 | 3190 | 3190 | 3190   |
| CAB10                |      |      |        |      | 4160 | 3250 | 3250 | 3250   |
| CABConduit01         |      |      |        |      | 3380 | 2750 | 2750 | 2750   |
| CABConduit02         |      |      |        |      | 3470 | 2810 | 2810 | 2810   |
| CABConduit03         |      |      |        |      | 3560 | 2870 | 2870 | 2870   |
| CABConduit04         |      |      |        |      | 3650 | 2930 | 2930 | 2930   |
| CABConduit05         |      |      |        |      | 3740 | 2990 | 2990 | 2990   |
| CABConduit06         |      |      |        |      | 3830 | 3050 | 3050 | 3050   |
| CABConduit07         |      |      |        |      | 3920 | 3110 | 3110 | 3110   |
| CABConduit08         |      |      |        |      | 4010 | 3170 | 3170 | 3170   |
| CABConduit09         |      |      |        |      | 4100 | 3230 | 3230 | 3230   |
| CABConduit10         |      |      |        |      | 4190 | 3290 | 3290 | 3290   |
| CABDisLoc01          |      |      |        |      | 3355 |      |      |        |
| CABDisLoc02          |      |      |        |      | 3445 |      |      |        |
| CABDisLoc03          |      |      |        |      | 3535 |      |      |        |
| CABDisLoc04          |      |      |        |      | 3625 |      |      |        |
| CABDisLoc05          |      |      |        |      | 3715 |      |      |        |
| CABDisLoc06          |      |      |        |      | 3805 |      |      |        |
| CABDisLoc07          |      |      |        |      | 3895 |      |      |        |
| CABDisLoc08          |      |      |        |      | 3985 |      |      |        |
| CABDisLoc09          |      |      |        |      | 4075 |      |      |        |
| CABDisLoc10          |      |      |        |      | 4165 |      |      |        |
| CABDistPos01         |      |      |        |      | 3410 | 2755 | 2755 | 2755   |
| CABDistPos02         |      |      |        |      | 3500 | 2815 | 2815 | 2815   |
| CABDistPos03         |      |      |        |      | 3590 | 2875 | 2875 | 2875   |
| CABDistPos04         |      |      |        |      | 3680 | 2935 | 2935 | 2935   |
| CABDistPos05         |      |      |        |      | 3770 | 2995 | 2995 | 2995   |

| ShortName     | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|---------------|------|------|--------|------|------|------|------|--------|
| CABDistPos06  |      |      |        |      | 3860 | 3055 | 3055 | 3055   |
| CABDistPos07  |      |      |        |      | 3950 | 3115 | 3115 | 3115   |
| CABDistPos08  |      |      |        |      | 4040 | 3175 | 3175 | 3175   |
| CABDistPos09  |      |      |        |      | 4130 | 3235 | 3235 | 3235   |
| CABDistPos10  |      |      |        |      | 4220 | 3295 | 3295 | 3295   |
| CABDistSite01 |      |      |        |      | 3390 | 2730 | 2730 | 2740   |
| CABDistSite02 |      |      |        |      | 3480 | 2790 | 2790 | 2800   |
| CABDistSite03 |      |      |        |      | 3570 | 2850 | 2850 | 2860   |
| CABDistSite04 |      |      |        |      | 3660 | 2910 | 2910 | 2920   |
| CABDistSite05 |      |      |        |      | 3750 | 2970 | 2970 | 2980   |
| CABDistSite06 |      |      |        |      | 3840 | 3030 | 3030 | 3040   |
| CABDistSite07 |      |      |        |      | 3930 | 3090 | 3090 | 3100   |
| CABDistSite08 |      |      |        |      | 4020 | 3150 | 3150 | 3160   |
| CABDistSite09 |      |      |        |      | 4110 | 3210 | 3210 | 3220   |
| CABDistSite10 |      |      |        |      | 4200 | 3270 | 3270 | 3280   |
| CABDistTech01 |      |      |        |      | 3400 |      |      |        |
| CABDistTech02 |      |      |        |      | 3490 |      |      |        |
| CABDistTech03 |      |      |        |      | 3580 |      |      |        |
| CABDistTech04 |      |      |        |      | 3670 |      |      |        |
| CABDistTech05 |      |      |        |      | 3760 |      |      |        |
| CABDistTech06 |      |      |        |      | 3850 |      |      |        |
| CABDistTech07 |      |      |        |      | 3940 |      |      |        |
| CABDistTech08 |      |      |        |      | 4030 |      |      |        |
| CABDistTech09 |      |      |        |      | 4120 |      |      |        |
| CABDistTech10 |      |      |        |      | 4210 |      |      |        |
| CABEndArt01   |      |      |        |      | 3420 | 2760 | 2760 | 2760   |
| CABEndArt02   |      |      |        |      | 3510 | 2820 | 2820 | 2820   |
| CABEndArt03   |      |      |        |      | 3600 | 2880 | 2880 | 2880   |
| CABEndArt04   |      |      |        |      | 3690 | 2940 | 2940 | 2940   |
| CABEndArt05   |      |      |        |      | 3780 | 3000 | 3000 | 3000   |
| CABEndArt06   |      |      |        |      | 3870 | 3060 | 3060 | 3060   |
| CABEndArt07   |      |      |        |      | 3960 | 3120 | 3120 | 3120   |
| CABEndArt08   |      |      |        |      | 4050 | 3180 | 3180 | 3180   |
| CABEndArt09   |      |      |        |      | 4140 | 3240 | 3240 | 3240   |
| CABEndArt10   |      |      |        |      | 4230 | 3300 | 3300 | 3300   |
| CABHybrPCI    |      |      |        |      | 3165 |      |      |        |
| CABHyPCI01    |      |      |        |      | 3430 |      |      |        |
| CABHyPCI02    |      |      |        |      | 3520 |      |      |        |
| CABHyPCI03    |      |      |        |      | 3610 |      |      |        |

| ShortName         | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-------------------|------|------|--------|------|------|------|------|--------|
| CABHyPCI04        |      |      |        |      | 3700 |      |      |        |
| CABHyPCI05        |      |      |        |      | 3790 |      |      |        |
| CABHyPCI06        |      |      |        |      | 3880 |      |      |        |
| CABHyPCI07        |      |      |        |      | 3970 |      |      |        |
| CABHyPCI08        |      |      |        |      | 4060 |      |      |        |
| CABHyPCI09        |      |      |        |      | 4150 |      |      |        |
| CABHyPCI10        |      |      |        |      | 4240 |      |      |        |
| CABPctSten01      |      |      |        |      | 3356 |      |      |        |
| CABPctSten02      |      |      |        |      | 3446 |      |      |        |
| CABPctSten03      |      |      |        |      | 3536 |      |      |        |
| CABPctSten04      |      |      |        |      | 3626 |      |      |        |
| CABPctSten05      |      |      |        |      | 3716 |      |      |        |
| CABPctSten06      |      |      |        |      | 3806 |      |      |        |
| CABPctSten07      |      |      |        |      | 3896 |      |      |        |
| CABPctSten08      |      |      |        |      | 3986 |      |      |        |
| CABPctSten09      |      |      |        |      | 4076 |      |      |        |
| CABPctSten10      |      |      |        |      | 4166 |      |      |        |
| CABPrevCon01      |      |      |        |      | 3357 |      |      |        |
| CABPrevCon02      |      |      |        |      | 3447 |      |      |        |
| CABPrevCon03      |      |      |        |      | 3537 |      |      |        |
| CABPrevCon04      |      |      |        |      | 3627 |      |      |        |
| CABPrevCon05      |      |      |        |      | 3717 |      |      |        |
| CABPrevCon06      |      |      |        |      | 3807 |      |      |        |
| CABPrevCon07      |      |      |        |      | 3897 |      |      |        |
| CABPrevCon08      |      |      |        |      | 3987 |      |      |        |
| CABPrevCon09      |      |      |        |      | 4077 |      |      |        |
| CABPrevCon10      |      |      |        |      | 4167 |      |      |        |
| CABProximalSite01 |      |      |        |      | 3360 | 2740 | 2740 | 2730   |
| CABProximalSite02 |      |      |        |      | 3450 | 2800 | 2800 | 2790   |
| CABProximalSite03 |      |      |        |      | 3540 | 2860 | 2860 | 2850   |
| CABProximalSite04 |      |      |        |      | 3630 | 2920 | 2920 | 2910   |
| CABProximalSite05 |      |      |        |      | 3720 | 2980 | 2980 | 2970   |
| CABProximalSite06 |      |      |        |      | 3810 | 3040 | 3040 | 3030   |
| CABProximalSite07 |      |      |        |      | 3900 | 3100 | 3100 | 3090   |
| CABProximalSite08 |      |      |        |      | 3990 | 3160 | 3160 | 3150   |
| CABProximalSite09 |      |      |        |      | 4080 | 3220 | 3220 | 3210   |
| CABProximalSite10 |      |      |        |      | 4170 | 3280 | 3280 | 3270   |
| CABProxTech01     |      |      |        |      | 3370 |      |      |        |
| CABProxTech02     |      |      |        |      | 3460 |      |      |        |

| ShortName       | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-----------------|------|------|--------|------|------|------|------|--------|
| CABProxTech03   |      |      |        |      | 3550 |      |      |        |
| CABProxTech04   |      |      |        |      | 3640 |      |      |        |
| CABProxTech05   |      |      |        |      | 3730 |      |      |        |
| CABProxTech06   |      |      |        |      | 3820 |      |      |        |
| CABProxTech07   |      |      |        |      | 3910 |      |      |        |
| CABProxTech08   |      |      |        |      | 4000 |      |      |        |
| CABProxTech09   |      |      |        |      | 4090 |      |      |        |
| CABProxTech10   |      |      |        |      | 4180 |      |      |        |
| CABUnpln        | 2550 | 2550 |        |      |      |      |      |        |
| CABVeinPatAng01 |      |      |        |      |      |      | 2765 |        |
| CABVeinPatAng02 |      |      |        |      |      |      | 2825 |        |
| CABVeinPatAng03 |      |      |        |      |      |      | 2885 |        |
| CABVeinPatAng04 |      |      |        |      |      |      | 2945 |        |
| CABVeinPatAng05 |      |      |        |      |      |      | 3005 |        |
| CABVeinPatAng06 |      |      |        |      |      |      | 3065 |        |
| CABVeinPatAng07 |      |      |        |      |      |      | 3125 |        |
| CABVeinPatAng08 |      |      |        |      |      |      | 3185 |        |
| CABVeinPatAng09 |      |      |        |      |      |      | 3245 |        |
| CABVeinPatAng10 |      |      |        |      |      |      | 3305 |        |
| CalculatedBMI   |      |      |        |      |      |      |      | 336    |
| CanAortAtr      |      |      |        | 1393 |      |      |      |        |
| CanAortFem      |      |      |        | 1391 |      |      |      |        |
| CanArtStAort    |      |      |        |      | 2851 | 2340 | 2340 |        |
| CanArtStAx      |      |      |        |      | 2853 | 2350 | 2350 |        |
| CanArtStFem     |      |      |        |      | 2852 | 2345 | 2345 |        |
| CanArtStInn     |      |      |        |      |      | 2355 | 2355 |        |
| CanArtStOth     |      |      |        |      | 2854 | 2360 | 2360 |        |
| CanFemAtr       |      |      |        | 1394 |      |      |      |        |
| CanFemFem       |      |      |        | 1392 |      |      |      |        |
| Cannulat        | 3760 | 3760 | 1390   |      |      |      |      |        |
| CanOther        |      |      |        | 1395 |      |      |      |        |
| CanVenStBi      |      |      |        |      | 2862 | 2390 | 2390 |        |
| CanVenStFem     |      |      |        |      | 2856 | 2365 | 2365 |        |
| CanVenStJug     |      |      |        |      | 2857 | 2370 | 2370 |        |
| CanVenStLfA     |      |      |        |      | 2859 | 2380 | 2380 |        |
| CanVenStOth     |      |      |        |      | 2863 | 2395 | 2395 |        |
| CanVenStPulm    |      |      |        |      | 2861 | 2385 | 2385 |        |
| CanVenStRtA     |      |      |        |      | 2858 | 2375 | 2375 |        |
| CathBasAssist   |      |      |        |      | 4660 | 3745 | 3745 | 3786   |

| ShortName          | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|--------------------|------|------|--------|------|------|------|------|--------|
| CathBasAssistDev   |      |      |        |      | 4670 |      |      |        |
| CathBasAssistInd   |      |      |        |      | 4700 | 3765 | 3765 |        |
| CathBasAssistRemDt |      |      |        |      | 4710 |      |      |        |
| CathBasAssistTy    |      |      |        |      |      | 3755 | 3755 | 3788   |
| CathBasAssistWhen  |      |      |        |      | 4690 | 3760 | 3760 | 3789   |
| CCancCase          |      |      |        |      | 2424 | 2050 | 2050 |        |
| CCancCaseCAB       |      |      |        |      | 2427 | 2065 | 2065 |        |
| CCancCaseMech      |      |      |        |      | 2429 | 2075 | 2075 |        |
| CCancCaseOC        |      |      |        |      | 2430 | 2095 | 2095 |        |
| CCancCaseONC       |      |      |        |      | 2431 | 2080 | 2080 |        |
| CCancCaseRsn       |      |      |        |      | 2426 | 2060 | 2060 |        |
| CCancCaseTmg       |      |      |        |      | 2425 | 2055 | 2055 |        |
| CCancCaseVal       |      |      |        |      | 2428 |      |      |        |
| CCancCaseValSur    |      |      |        |      |      | 2085 | 2085 |        |
| CCancCaseValTrans  |      |      |        |      |      | 2090 | 2090 |        |
| Celiac             |      |      |        |      |      |      | 5220 | 5220   |
| CeliacAortaCeli    |      |      |        |      |      |      | 5225 |        |
| CeliacExtraAnatByp |      |      |        |      |      |      |      | 5221   |
| CeliacIliacCeliac  |      |      |        |      |      |      | 5245 |        |
| CeliacOther        |      |      |        |      |      |      | 5265 |        |
| CerOxUsed          |      |      |        |      | 2930 | 2450 | 2450 | 2450   |
| CircArr            |      |      |        | 1381 | 2865 | 2405 | 2405 | 2405   |
| ClinTrial          |      |      |        |      |      | 45   | 45   | 45     |
| ClinTrialPatID     |      |      |        |      |      | 46   | 46   | 46     |
| CnvIndic           | 3520 | 3520 |        |      |      |      |      |        |
| CnvStdIn           | 3510 | 3510 |        |      |      |      |      |        |
| COFirstInd         |      |      |        | 1426 | 2980 |      |      |        |
| CombCardPCI        |      |      |        |      |      | 2585 |      |        |
| CombProcs          |      |      |        |      |      | 2590 |      |        |
| CombProcsPCI       |      |      |        |      |      | 2600 |      |        |
| CombProcsStatus    |      |      |        |      |      | 2595 |      |        |
| CombProcsStentTy   |      |      |        |      |      | 2605 |      |        |
| ComMngMedPlnPrim   |      |      |        |      |      |      |      | 292    |
| ComMngMedPlnSec    |      |      |        |      |      |      |      | 299    |
| CompMAD            |      |      |        |      |      | 4010 |      |        |
| CompMAD1           |      |      |        |      |      | 4015 |      |        |
| CompMAD2           |      |      |        |      |      | 4020 |      |        |
| CompMAD3           |      |      |        |      |      | 4025 |      |        |
| ConCalc            |      |      |        |      | 3005 | 2490 | 2490 |        |

| ShortName               | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-------------------------|------|------|--------|------|------|------|------|--------|
| ConvCPB                 |      | 3479 |        |      |      |      |      |        |
| ConvToOpen              |      |      |        |      |      |      | 5404 | 5404   |
| ConvToOpenRes           |      |      |        |      |      |      | 5405 | 5405   |
| CoolingTimePriorCircArr |      |      |        |      |      |      |      | 2427   |
| CorShunt                | 3930 | 3930 |        |      |      |      |      |        |
| CostLink                |      | 52   | 60     | 60   | 60   | 35   | 35   |        |
| CPBCmb                  |      |      | 1360   | 1360 | 2750 | 2330 | 2330 | 2330   |
| CPBCmbR                 |      |      | 1370   | 1370 | 2760 | 2335 | 2335 | 2335   |
| CPBUsed                 | 3750 | 3478 |        |      |      |      |      |        |
| CPBUtil                 |      |      | 1350   | 1350 | 2740 | 2325 | 2325 | 2325   |
| CPerfTime               |      |      |        |      | 2868 | 2420 | 2420 | 2420   |
| CPerfTyp                |      |      |        |      | 2869 | 2425 | 2425 | 2425   |
| CPerfUtil               |      |      |        |      | 2867 | 2415 | 2415 | 2415   |
| Cplegia                 | 4380 | 4380 | 1420   | 1420 |      |      |      |        |
| CplegiaDeliv            |      |      |        |      | 2900 | 2440 | 2440 | 2440   |
| CplegiaType             |      |      |        |      | 2901 | 2445 | 2445 | 2445   |
| CPT1Code1               |      |      |        | 1321 | 2510 | 2195 | 2195 | 2195   |
| CPT1Code10              |      |      |        | 1330 | 2600 | 2240 | 2240 | 2240   |
| CPT1Code2               |      |      |        | 1322 | 2520 | 2200 | 2200 | 2200   |
| CPT1Code3               |      |      |        | 1323 | 2530 | 2205 | 2205 | 2205   |
| CPT1Code4               |      |      |        | 1324 | 2540 | 2210 | 2210 | 2210   |
| CPT1Code5               |      |      |        | 1325 | 2550 | 2215 | 2215 | 2215   |
| CPT1Code6               |      |      |        | 1326 | 2560 | 2220 | 2220 | 2220   |
| CPT1Code7               |      |      |        | 1327 | 2570 | 2225 | 2225 | 2225   |
| CPT1Code8               |      |      |        | 1328 | 2580 | 2230 | 2230 | 2230   |
| CPT1Code9               |      |      |        | 1329 | 2590 | 2235 | 2235 | 2235   |
| CumulSatLft             |      |      |        | 1424 | 2960 |      |      |        |
| CumulSatRt              |      |      |        | 1425 | 2970 |      |      |        |
| DataVrsn                | 30   | 30   | 30     | 30   | 30   | 15   | 15   | 15     |
| DescAortaLoc            |      |      |        |      |      |      | 5020 | 5020   |
| DescAortaProc           |      |      |        |      |      |      | 5015 | 5015   |
| DHCATm                  |      |      |        | 1382 | 2866 | 2410 | 2410 | 2410   |
| Diam3DAnnulus           |      |      |        |      |      |      | 4900 |        |
| Diam3DDistalAsc         |      |      |        |      |      |      | 4920 |        |
| Diam3DMidAsc            |      |      |        |      |      |      | 4915 |        |
| Diam3DSinotubular       |      |      |        |      |      |      | 4910 |        |
| Diam3DSinus             |      |      |        |      |      |      | 4905 |        |
| Diam3DZone1             |      |      |        |      |      |      | 4925 |        |
| Diam3DZone10            |      |      |        |      |      |      | 4946 |        |

| ShortName           | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|---------------------|------|------|--------|------|------|------|------|--------|
| Diam3DZone11        |      |      |        |      |      |      | 4947 |        |
| Diam3DZone2         |      |      |        |      |      |      | 4930 |        |
| Diam3DZone3         |      |      |        |      |      |      | 4935 |        |
| Diam3DZone4         |      |      |        |      |      |      | 4940 |        |
| Diam3DZone5         |      |      |        |      |      |      | 4941 |        |
| Diam3DZone6         |      |      |        |      |      |      | 4942 |        |
| Diam3DZone7         |      |      |        |      |      |      | 4943 |        |
| Diam3DZone8         |      |      |        |      |      |      | 4944 |        |
| Diam3DZone9         |      |      |        |      |      |      | 4945 |        |
| Diameter3DMeas      |      |      |        |      |      |      | 4895 |        |
| DiamLgstAnnulus     |      |      |        |      |      |      | 4948 |        |
| DiamLgstDistalAsc   |      |      |        |      |      |      | 4952 |        |
| DiamLgstMidAsc      |      |      |        |      |      |      | 4951 |        |
| DiamLgstSinotubular |      |      |        |      |      |      | 4950 |        |
| DiamLgstSinus       |      |      |        |      |      |      | 4949 |        |
| DiamLgstZone1       |      |      |        |      |      |      | 4953 |        |
| DiamLgstZone10      |      |      |        |      |      |      | 4962 |        |
| DiamLgstZone11      |      |      |        |      |      |      | 4963 |        |
| DiamLgstZone2       |      |      |        |      |      |      | 4954 |        |
| DiamLgstZone3       |      |      |        |      |      |      | 4955 |        |
| DiamLgstZone4       |      |      |        |      |      |      | 4956 |        |
| DiamLgstZone5       |      |      |        |      |      |      | 4957 |        |
| DiamLgstZone6       |      |      |        |      |      |      | 4958 |        |
| DiamLgstZone7       |      |      |        |      |      |      | 4959 |        |
| DiamLgstZone8       |      |      |        |      |      |      | 4960 |        |
| DiamLgstZone9       |      |      |        |      |      |      | 4961 |        |
| DisLowMotFun        |      |      |        |      |      |      | 4836 | 4836   |
| DisLowSenDef        |      |      |        |      |      |      | 4837 | 4837   |
| DisMal              |      |      |        |      |      |      | 4785 | 4785   |
| DisMalCel           |      |      |        |      |      |      | 4810 |        |
| DisMalComL          |      |      |        |      |      |      | 4800 |        |
| DisMalCor           |      |      |        |      |      |      | 4790 |        |
| DisMalIllo          |      |      |        |      |      |      | 4830 |        |
| DisMalRenL          |      |      |        |      |      |      | 4820 |        |
| DisMalRenR          |      |      |        |      |      |      | 4825 |        |
| DisMalRtComCar      |      |      |        |      |      |      | 4792 |        |
| DisMalRtSubclav     |      |      |        |      |      |      | 4791 |        |
| DisMalSpin          |      |      |        |      |      |      | 4835 |        |
| DisMalSubL          |      |      |        |      |      |      | 4805 |        |

| ShortName              | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|------------------------|------|------|--------|------|------|------|------|--------|
| DisMalSup              |      |      |        |      |      |      | 4815 |        |
| DisMalType             |      |      |        |      |      |      |      | 4786   |
| DisOnsetDt             |      |      |        |      |      |      | 4747 | 4747   |
| DisOnsetDtKnown        |      |      |        |      |      |      | 4746 | 4746   |
| DisPosTEVAR            |      |      |        |      |      |      | 4770 | 4782   |
| DisProxTearCov         |      |      |        |      |      |      | 5401 | 5401   |
| DisRetExt              |      |      |        |      |      |      | 4760 | 4760   |
| DisRetLoc              |      |      |        |      |      |      | 4765 | 4765   |
| DisRupt                |      |      |        |      |      |      | 4840 | 4840   |
| DisRuptCon             |      |      |        |      |      |      | 4845 | 4845   |
| DisRuptLoc             |      |      |        |      |      |      | 4850 | 4850   |
| DisSecLoc              |      |      |        |      |      |      | 4755 |        |
| DistalExt              |      |      |        |      |      |      | 4775 | 4775   |
| DistalExtLoc           |      |      |        |      |      |      | 4780 | 4780   |
| DistAnastArtCond       |      |      |        |      |      |      |      | 2630   |
| DistArt                | 2570 | 2570 | 1520   | 1520 | 3190 | 2625 |      |        |
| DisTearLoc             |      |      |        |      |      |      | 4750 | 4750   |
| DisTiming              |      |      |        |      |      |      | 4745 | 4745   |
| DistTreatZoneAvail     |      |      |        |      |      |      |      | 4933   |
| DistTreatZoneAvailLoc  |      |      |        |      |      |      |      | 4934   |
| DistTreatZoneAvailMeas |      |      |        |      |      |      |      | 4935   |
| DistTreatZoneAvailMeth |      |      |        |      |      |      |      | 4936   |
| DistVein               | 2580 | 2580 | 1530   | 1530 | 3200 | 2630 | 2638 | 2638   |
| DistVeinHTech          |      |      |        | 1531 | 3205 | 2635 | 2639 |        |
| DOB                    | 110  | 110  | 130    | 130  | 130  | 65   | 65   | 65     |
| ECMO                   |      |      |        |      | 4730 | 3775 | 3775 | 3776   |
| ECMOInd                |      |      |        |      | 4750 | 3785 | 3785 |        |
| ECMOWhen               |      |      |        |      | 4740 | 3780 | 3780 | 3780   |
| EmergRsn               | 2320 | 2320 | 1260   | 1260 | 2410 |      |      |        |
| EndoBalFenDisFlap      |      |      |        |      |      |      |      | 5439   |
| EndoDistalZone         |      |      |        |      |      |      | 5080 | 5080   |
| EndoEndProc            |      |      |        |      |      |      | 5402 | 5402   |
| EndoEndProcTy          |      |      |        |      |      |      | 5403 | 5403   |
| Endoleak               |      |      |        |      |      |      | 4620 | 4620   |
| EndoleakTyILoc         |      |      |        |      |      |      | 4630 | 4630   |
| EndoleakType           |      |      |        |      |      |      | 4650 | 4650   |
| EndoleakTypeI          |      |      |        |      |      |      | 4625 | 4625   |
| EndoleakTypeII         |      |      |        |      |      |      | 4635 | 4635   |
| EndoleakTypeIII        |      |      |        |      |      |      | 4645 | 4645   |

| ShortName        | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|------------------|------|------|--------|------|------|------|------|--------|
| EndoleakTypeIV   |      |      |        |      |      |      | 4655 | 4655   |
| EndoleakTypeV    |      |      |        |      |      |      | 4660 | 4660   |
| EndoleakVessNum  |      |      |        |      |      |      | 4640 | 4640   |
| EndoProc         |      |      |        |      | 5520 |      |      |        |
| EndoProcDeb      |      |      |        |      | 5521 |      |      |        |
| EndoProxZone     |      |      |        |      |      |      | 5070 | 5070   |
| EndovasAccess    |      |      |        |      |      |      | 5067 | 5067   |
| EndovasPercAcc   |      |      |        |      |      |      | 5068 | 5068   |
| EndovasProc      |      |      |        |      |      |      | 5066 | 5066   |
| EndovasTAVR      |      |      |        |      |      |      | 5090 |        |
| EndovasTEVAR     |      |      |        |      |      |      | 5095 | 5095   |
| ErrFlag          | -30  | -30  | -30    | -30  | -30  |      |      |        |
| Ethnicity        |      |      |        | 199  | 350  | 185  | 185  | 185    |
| ExpiredInOR      |      |      |        |      |      |      |      | 6546   |
| ExtubatedDT      |      |      |        | 1338 | 2680 | 2260 | 2260 | 6586   |
| FamHistAorta     |      |      |        |      |      |      | 4500 | 4500   |
| FlowPtcy         | 4080 | 4080 |        |      |      |      |      |        |
| GenAnes          |      |      |        |      |      |      | 2251 | 2251   |
| Gender           | 130  | 130  | 150    | 150  | 150  | 75   | 75   | 75     |
| HeightCm         | 420  | 420  | 360    | 360  | 640  | 330  | 330  | 330    |
| HICNMBI          |      |      |        |      |      |      |      | 294    |
| HICNMBIKnown     |      |      |        |      |      |      |      | 293    |
| HICNMBIKnownSec  |      |      |        |      |      |      |      | 300    |
| HICNMBINumberSec |      |      |        |      |      |      |      | 301    |
| HICNumber        |      |      |        | 171  | 440  |      |      |        |
| HighIntraGlu     |      |      |        |      |      | 2320 | 2320 | 2320   |
| HospCMSCert      |      |      |        |      |      |      | 221  | 221    |
| HospName         | 280  | 280  | 220    | 220  | 380  | 205  | 205  | 205    |
| HospNPI          |      |      |        | 241  | 410  | 220  | 220  | 220    |
| HospStat         | 284  | 284  | 240    | 240  | 400  | 215  | 215  | 215    |
| HospZIP          | 282  | 282  | 230    | 230  | 390  | 210  | 210  | 210    |
| HPVCI            |      |      | 1980   | 1980 |      |      |      |        |
| HPVCVP           |      |      | 1960   | 1960 |      |      |      |        |
| HPVPCWP          |      |      | 1950   | 1950 |      |      |      |        |
| HPVPVO2          |      |      | 2020   |      |      |      |      |        |
| HPVPVO2M         |      |      | 2010   |      |      |      |      |        |
| HPVPVR           |      |      | 1970   |      |      |      |      |        |
| HPVRVEF          |      |      | 1990   | 1990 |      |      |      |        |
| HPVRVMth         |      |      | 2000   |      |      |      |      |        |

| ShortName        | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|------------------|------|------|--------|------|------|------|------|--------|
| Hrvstnum         | -40  | -40  | -40    | -40  | -40  |      |      |        |
| HybrProc         |      |      |        |      | 3180 |      |      |        |
| HybrStat         |      |      |        |      | 3170 |      |      |        |
| IABP             | 4480 | 4480 | 1430   | 1430 | 4610 | 3725 | 3725 | 3725   |
| IABPInd          | 4500 | 4500 | 1450   | 1450 | 4630 | 3735 | 3735 |        |
| IABPRemDt        |      |      |        |      | 4640 |      |      |        |
| IABPWhen         | 4490 | 4490 | 1440   | 1440 | 4620 | 3730 | 3730 | 3730   |
| IAntifibMed      |      |      |        |      |      |      |      | 2557   |
| IAntifibMedGiven |      |      |        |      |      |      |      | 2556   |
| IBdCryoU         |      |      | 1490   | 1490 | 3080 | 2535 | 2535 | 2535   |
| IBdFactorVII     |      |      |        |      | 3091 |      |      |        |
| IBdFFPU          |      |      | 1480   | 1480 | 3070 | 2525 | 2525 | 2525   |
| IBdPlatDosePk    |      |      |        |      |      |      |      | 2521   |
| IBdPlatU         |      |      | 1500   | 1500 | 3090 | 2530 | 2530 |        |
| IBdRBCU          |      |      | 1470   | 1470 | 3060 | 2520 | 2520 | 2520   |
| IBldProd         |      |      | 1460   | 1460 | 3040 | 2515 | 2515 | 2515   |
| IBldProdRef      |      |      |        | 1461 | 3050 | 2510 | 2510 |        |
| IMAArtUs         | 2590 | 2590 | 1560   | 1560 | 3210 | 2655 |      |        |
| IMATechn         | 4070 | 4070 | 1570   | 1570 | 3240 | 2670 |      |        |
| IMAUUsed         |      |      |        |      |      |      | 2626 | 2626   |
| IMedAprot        |      |      |        | 1509 |      |      |      |        |
| IMedAprotD       |      |      |        | 1510 |      |      |      |        |
| IMedDesmo        |      |      |        | 1512 |      |      |      |        |
| IMedEACA         |      |      |        | 1511 | 3120 | 2550 | 2550 |        |
| IMedTran         |      |      |        | 1513 | 3140 | 2555 | 2555 |        |
| InAortaCarotid   |      |      |        |      |      |      | 5110 |        |
| InAortaInnom     |      |      |        |      |      |      | 5105 |        |
| InAortaSubclav   |      |      |        |      |      |      | 5115 |        |
| InCaroSubclav    |      |      |        |      |      |      | 5125 |        |
| Incidenc         |      |      | 560    | 1230 | 2380 | 1970 | 1970 | 1970   |
| IndMnInv         | 3480 | 3480 |        |      |      |      |      |        |
| InExtraAnatByLoc |      |      |        |      |      |      |      | 5101   |
| Infection        |      |      |        |      |      |      | 4665 | 4665   |
| InfecType        |      |      |        |      |      |      | 4670 | 4670   |
| Innominate       |      |      |        |      |      |      | 5100 | 5100   |
| InOpTEE          |      |      |        |      | 3157 | 2560 | 2560 | 2560   |
| InOther          |      |      |        |      |      |      | 5135 |        |
| IntDisExten      |      |      |        |      |      |      | 5406 | 5406   |
| IntIliacPres     |      |      |        |      |      |      | 5396 | 5386   |

| ShortName               | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-------------------------|------|------|--------|------|------|------|------|--------|
| IntPVAD                 |      |      | 1940   | 1940 |      |      |      |        |
| IntraClotFact           |      |      |        |      |      | 2545 | 2545 | 2545   |
| IntraOpAng              |      |      |        |      |      |      | 5436 | 5436   |
| IntraOpAngFITm          |      |      |        |      |      |      | 5438 | 5438   |
| IntraOpAngVol           |      |      |        |      |      |      | 5437 | 5437   |
| IntraOpEEG              |      |      |        |      |      |      | 5432 | 5432   |
| IntraOpEEGAb            |      |      |        |      |      |      | 5433 | 5433   |
| IntraOpIVUS             |      |      |        |      |      |      | 5434 | 5434   |
| IntraopProComCon        |      |      |        |      |      |      | 2546 | 2546   |
| Intubate                |      |      |        |      |      |      | 2253 | 2253   |
| IntubateDT              |      |      |        | 1337 | 2670 | 2255 | 2255 |        |
| IschTCFX                | 3970 |      |        |      |      |      |      |        |
| IschTLAD                | 3950 |      |        |      |      |      |      |        |
| IschTRCA                | 3960 |      |        |      |      |      |      |        |
| LeftCarotid             |      |      |        |      |      |      | 5140 | 5140   |
| LeftCarotidExtraAnatByp |      |      |        |      |      |      |      | 5141   |
| LeftIliac               |      |      |        |      |      |      | 5393 | 5382   |
| LeftIliacExtraAnatByp   |      |      |        |      |      |      |      | 5383   |
| LeftIMA                 |      |      |        |      |      |      | 2629 | 2627   |
| LeftRenal               |      |      |        |      |      |      | 5370 | 5360   |
| LeftRenalExtraAnatByp   |      |      |        |      |      |      |      | 5361   |
| LeftSubclavExtraAnatByp |      |      |        |      |      |      |      | 5181   |
| LeftSubclavian          |      |      |        |      |      |      | 5180 | 5180   |
| LIMAHarvTech            |      |      |        |      |      |      | 2630 |        |
| LowestHematocritCPB     |      |      |        |      |      |      |      | 2406   |
| LTCaroAortaCaro         |      |      |        |      |      |      | 5150 |        |
| LTCaroCarotid           |      |      |        |      |      |      | 5170 |        |
| LTCaroInnomCaro         |      |      |        |      |      |      | 5160 |        |
| LTCaroOther             |      |      |        |      |      |      | 5175 |        |
| LtIliacFemFem           |      |      |        |      |      |      | 5394 |        |
| LtIliacOther            |      |      |        |      |      |      | 5395 |        |
| LtRenAortaLtRe          |      |      |        |      |      |      | 5375 |        |
| LtRenIliacLtRen         |      |      |        |      |      |      | 5380 |        |
| LtRenOther              |      |      |        |      |      |      | 5385 |        |
| LTSUBAortaSub           |      |      |        |      |      |      | 5195 |        |
| LTSUBCarotidSub         |      |      |        |      |      |      | 5205 |        |
| LTSUBOther              |      |      |        |      |      |      | 5213 |        |
| LVADInf                 |      |      | 2110   | 2032 |      |      |      |        |
| LVADInf2                |      |      |        | 2131 |      |      |      |        |

| ShortName            | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|----------------------|------|------|--------|------|------|------|------|--------|
| LVADInf3             |      |      |        | 2211 |      |      |      |        |
| LwstHct              |      |      |        |      | 2790 | 2315 | 2315 | 2315   |
| LwstIntraHemo        |      |      |        |      |      | 2310 | 2310 | 2310   |
| LwstTemp             |      |      |        |      | 2780 | 2300 | 2300 | 2300   |
| LwstTempSrc          |      |      |        |      |      | 2305 | 2305 | 2305   |
| MCADECMO             |      |      |        |      |      |      |      | 3766   |
| MechVentAssistDevice |      |      |        |      |      |      |      | 2137   |
| MedRecN              |      |      |        | 170  | 170  | 85   | 85   | 85     |
| MitralImplant        |      |      |        |      |      | 3615 | 3615 | 3615   |
| MitralImplantTy      |      |      |        |      |      | 3620 | 3620 | 3620   |
| MitralIntent         |      |      |        | 1641 | 4410 | 3600 | 3600 | 3600   |
| MitralLeafletClipNum |      |      |        |      |      |      |      | 3621   |
| MotorEvoke           |      |      |        |      |      |      | 5425 | 5425   |
| MotorEvokeAb         |      |      |        |      |      |      | 5426 | 5426   |
| NoIMARsn             |      |      |        |      | 3220 | 2660 | 2627 | 2629   |
| NumArtArtComp        |      |      |        |      |      |      | 2652 |        |
| NumArtVenComp        |      |      |        |      |      |      | 2650 |        |
| NumGEPDA             | 2700 | 2700 | 1610   | 1610 |      |      |      |        |
| NumIMADA             | 2660 | 2660 | 1580   | 1580 | 3230 | 2665 | 2628 |        |
| NumIncis             | 3500 | 3500 |        |      |      |      |      |        |
| NumOArtD             |      |      | 1620   | 1620 | 3300 | 2705 | 2641 |        |
| NumRadArtUs          |      |      |        |      | 3260 | 2675 |      |        |
| NumRadDA             | 2680 | 2680 | 1600   | 1600 | 3270 | 2680 | 2634 | 2634   |
| NumVenArtComp        |      |      |        |      |      |      | 2651 |        |
| OCAoProcType         |      |      |        |      | 5471 |      |      |        |
| OCarAAMeth           |      |      |        |      |      |      | 4051 | 4139   |
| OCarAAModel          |      |      |        |      |      |      | 4052 |        |
| OCarAAppAmp          |      |      |        |      |      |      |      | 4142   |
| OCarAAProc           |      |      |        |      |      | 4080 | 4050 |        |
| OCarAAUDI            |      |      |        |      |      |      | 4053 | 4141   |
| OCarACD              |      |      | 2450   | 2450 | 5400 | 4085 | 4055 | 4055   |
| OCarACDL             |      |      | 2460   | 2460 |      |      |      |        |
| OCarACDLE            |      |      |        |      | 5430 | 4120 | 4065 | 4065   |
| OCarACDLI            |      |      |        |      | 5410 |      |      |        |
| OCarAcqVSD           |      |      |        |      |      |      |      | 4131   |
| OCarAFES             |      |      | 2480   |      |      |      |      |        |
| OCarAFib             |      |      | 2470   | 2470 |      |      |      |        |
| OCarAFibAProc        |      |      |        |      | 5465 |      |      |        |
| OCarAFibEpLes        |      |      |        |      |      | 4070 | 4045 |        |

| ShortName         | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-------------------|------|------|--------|------|------|------|------|--------|
| OCarAFibIntraLes  |      |      |        |      |      | 4105 | 4040 |        |
| OCarAFibLesLoc    |      |      |        |      |      | 4191 | 4191 | 4191   |
| OCarAFibMethCAS   |      |      |        |      | 5460 | 4210 | 4210 |        |
| OCarAFibMethCryo  |      |      |        |      | 5457 | 4215 | 4215 |        |
| OCarAFibMethLas   |      |      |        |      | 5459 |      |      |        |
| OCarAFibMethMicro |      |      |        |      | 5458 |      |      |        |
| OCarAFibMethRad   |      |      |        |      | 5455 | 4200 | 4200 |        |
| OCarAFibMethRadBi |      |      |        |      |      | 4205 | 4205 | 4205   |
| OCarAFibMethUltra |      |      |        |      | 5456 |      |      |        |
| OCarAFibSur       |      |      |        |      | 5450 |      |      |        |
| OCarAFibSurLAA    |      |      |        |      | 5452 |      |      |        |
| OCarAFibSurLoc    |      |      |        |      | 5451 |      |      |        |
| OCarAICD          | 4240 | 4240 |        |      |      |      |      |        |
| OCarASD           | 4170 | 4170 | 2380   | 2380 | 5240 |      |      |        |
| OCarASDPFO        |      |      |        |      |      | 4075 | 4030 |        |
| OCarASDSec        |      |      |        |      |      | 4110 | 4035 |        |
| OCarASDTy         |      |      |        |      | 5241 |      |      |        |
| OCarBati          | 4180 | 4180 | 2390   | 2390 |      |      |      |        |
| OCarCong          | 4190 | 4190 | 2410   | 2410 | 5300 | 4162 | 4070 | 2150   |
| OCarCongDiag1     |      |      |        |      | 5310 | 4500 | 6500 | 6500   |
| OCarCongDiag2     |      |      |        |      | 5320 | 4505 | 6505 | 6505   |
| OCarCongDiag3     |      |      |        |      | 5330 | 4510 | 6510 | 6510   |
| OCarCongProc1     |      |      |        |      | 5340 | 4515 | 6515 | 6515   |
| OCarCongProc2     |      |      |        |      | 5350 | 4520 | 6520 | 6520   |
| OCarCongProc3     |      |      |        |      | 5360 | 4525 | 6525 | 6525   |
| OCarCrTx          | 4220 | 4220 | 2440   | 2440 | 5390 | 4152 | 4120 | 4120   |
| OCarASDRep        |      |      |        |      |      |      |      | 4136   |
| OCarASDRepTyp     |      |      |        |      |      |      |      | 4137   |
| OCarPFORep        |      |      |        |      |      |      |      | 4138   |
| OCarLasr          | 4200 | 4200 | 2420   | 2420 | 5370 | 4100 | 4110 | 4110   |
| OCarLeadInsert    |      |      |        |      |      | 4090 | 4060 | 4060   |
| OCarLesDoc        |      |      |        |      |      | 4195 | 4240 | 4240   |
| OCarLVA           | 4150 | 4150 | 2360   | 2360 | 5220 | 4125 | 4075 | 4054   |
| OCarOthr          | 4250 | 4250 | 2560   | 2560 | 5550 | 4160 | 4135 | 4135   |
| OCarPace          | 4230 | 4230 |        |      |      |      |      |        |
| OCarStemCell      |      |      |        |      |      | 4095 | 4080 | 4053   |
| OCarSubaStenRes   |      |      |        |      |      | 4135 | 4090 |        |
| OCarSubaStenResTy |      |      |        |      |      | 4140 | 4100 | 4051   |
| OCarSVR           |      | 4185 | 2400   | 2400 | 5290 | 4145 | 4105 |        |

| ShortName        | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|------------------|------|------|--------|------|------|------|------|--------|
| OCarTrma         | 4210 | 4210 | 2430   | 2430 | 5380 | 4153 | 4125 | 4125   |
| OCarVSD          | 4160 | 4160 | 2370   | 2370 | 5230 | 4155 | 4130 |        |
| OCulThromDis     |      |      |        |      | 5540 | 4130 | 4085 | 4052   |
| OCTumor          |      |      |        |      | 5530 | 4150 | 4115 | 4115   |
| ONCAoAn          | 4260 | 4260 | 2510   | 2510 |      |      |      |        |
| ONCAoGraft       |      |      |        |      | 5474 |      |      |        |
| ONCAoRt          |      |      |        |      | 5473 |      |      |        |
| ONCArch          |      |      | 2530   | 2530 | 5490 |      |      |        |
| ONCArchRepExt    |      |      |        |      | 5491 |      |      |        |
| ONCAsc           |      |      | 2520   | 2520 | 5480 |      |      |        |
| ONCCarEn         | 4320 | 4320 | 2570   | 2570 | 5560 | 4530 | 6530 | 6530   |
| ONCDesc          |      |      | 2540   | 2540 | 5500 |      |      |        |
| ONCOther         |      |      | 2600   | 2600 | 5590 | 4545 | 6545 | 6545   |
| ONCOThor         | 4340 | 4340 | 2590   | 2590 | 5580 | 4540 | 6540 | 6540   |
| ONCOVasc         | 4330 | 4330 | 2580   | 2580 | 5570 | 4535 | 6535 | 6535   |
| ONCThAbd         |      |      | 2550   | 2550 | 5510 |      |      |        |
| ONCThAbdExtent   |      |      |        |      | 5514 |      |      |        |
| ONCThAbdGraft    |      |      |        |      | 5511 |      |      |        |
| ONCThAbdInterVes |      |      |        |      | 5512 |      |      |        |
| ONCThAbdLumCSF   |      |      |        |      | 5513 |      |      |        |
| OnDemandVrsn     |      |      |        |      | 31   | 20   | 20   |        |
| OpAortic         | 2350 | 2350 | 1630   | 1630 |      |      |      |        |
| OPApp            |      |      |        |      | 2435 | 2100 | 2100 | 2100   |
| OpCAB            | 2340 | 2340 | 1280   | 1280 | 2437 | 2120 | 2120 | 2120   |
| OpMinInv         | 2500 |      |        |      |      |      |      |        |
| OpMitral         | 2360 | 2360 | 1640   | 1640 |      |      |      |        |
| OpOCard          | 2510 | 2510 | 1310   | 1310 | 2490 | 2140 | 2140 | 2140   |
| OpONCard         | 2520 | 2520 | 1320   | 1320 | 2500 | 2155 | 2155 | 2155   |
| OpPulm           | 2380 | 2380 | 1660   | 1660 | 4560 | 3690 | 3690 | 3690   |
| OpTricus         | 2370 | 2370 | 1650   | 1650 | 4500 | 3645 |      |        |
| OpTricusAnTy     |      |      |        |      | 4510 | 3655 | 3648 | 3638   |
| OpValSurgInput   |      |      |        |      |      |      | 2126 | 2136   |
| OpValve          |      |      | 1290   | 1290 | 2440 | 2125 | 2125 | 2129   |
| OREntryDT        |      |      |        | 1335 | 2610 | 2245 | 2245 | 2245   |
| ORExitDT         |      |      |        | 1336 | 2620 | 2250 | 2250 | 2250   |
| OthArchVes       |      |      |        |      |      |      | 5214 |        |
| OthHosCS         |      |      |        |      | 590  | 325  | 325  | 325    |
| OthInnomCaro     |      |      |        |      |      |      | 5215 |        |
| OthInnomSub      |      |      |        |      |      |      | 5216 |        |

| ShortName               | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-------------------------|------|------|--------|------|------|------|------|--------|
| OthOther                |      |      |        |      |      |      | 5218 |        |
| OthSubSub               |      |      |        |      |      |      | 5217 |        |
| OthVisAortOth           |      |      |        |      |      |      | 5398 |        |
| OthVisIliacOth          |      |      |        |      |      |      | 5399 |        |
| OthVisOther             |      |      |        |      |      |      | 5400 |        |
| OthVisVes               |      |      |        |      |      |      | 5397 | 5387   |
| OthVisVesExtraAnatByLoc |      |      |        |      |      |      |      | 5388   |
| ParticID                | 40   | 40   | 40     | 40   | 40   | 25   | 25   | 25     |
| PatAddr                 |      |      |        |      | 180  | 90   | 90   | 90     |
| PatCity                 |      |      |        |      | 190  | 95   | 95   | 95     |
| PatCountry              |      |      |        |      | 220  |      |      |        |
| PatFName                |      |      |        | 110  | 100  | 55   | 55   | 55     |
| PatGenHist              |      |      |        |      |      |      | 4505 | 4505   |
| PatID                   | 60   | 60   | 80     | 80   | 80   | 40   | 40   | 40     |
| PatientCountry          |      |      |        |      |      | 115  | 115  | 115    |
| PatLName                |      |      |        | 100  | 90   | 50   | 50   | 50     |
| PatMInit                |      |      |        | 120  |      |      |      |        |
| PatMName                |      |      |        |      | 120  | 60   | 60   | 60     |
| PatPermAddr             |      |      |        |      | 240  |      |      |        |
| PatPermCity             |      |      |        |      | 250  |      |      |        |
| PatPermCountry          |      |      |        |      | 280  |      |      |        |
| PatPermRegion           |      |      |        |      | 260  |      |      |        |
| PatPermZIP              |      |      |        |      | 270  |      |      |        |
| PatRegion               |      |      |        |      | 200  | 100  | 100  | 100    |
| PatZIP                  | 190  | 190  | 180    | 180  | 210  | 105  | 105  | 105    |
| PayorCom                |      |      |        | 254  | 510  | 275  |      |        |
| PayorGov                |      |      |        | 247  | 420  | 225  |      |        |
| PayorGovCor             |      |      |        |      | 500  | 265  |      |        |
| PayorGovIHS             |      |      |        | 252  | 490  | 260  |      |        |
| PayorGovMcaid           |      |      |        | 249  | 460  | 245  |      |        |
| PayorGovMcare           |      |      |        | 248  | 430  | 230  |      |        |
| PayorGovMcareFFS        |      |      |        |      | 450  | 240  |      |        |
| PayorGovMil             |      |      |        | 250  | 470  | 250  |      |        |
| PayorGovOth             |      |      |        |      |      | 270  |      |        |
| PayorGovState           |      |      |        | 251  | 480  | 255  |      |        |
| PayorHMO                |      |      |        | 255  | 520  | 280  |      |        |
| PayorNonUS              |      |      |        | 256  | 530  | 285  |      |        |
| PayorNS                 |      |      |        | 257  | 540  | 290  |      |        |
| PayorPrim               |      |      |        |      |      |      | 291  | 291    |

| ShortName          | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|--------------------|------|------|--------|------|------|------|------|--------|
| PayorSecond        |      |      |        |      |      |      | 293  | 298    |
| PCancCase          |      |      |        |      | 2415 | 1995 | 1995 |        |
| PCancCaseCAB       |      |      |        |      | 2419 | 2015 | 2015 |        |
| PCancCaseDt        |      |      |        |      | 2416 | 2000 | 2000 |        |
| PCancCaseMech      |      |      |        |      | 2421 | 2020 | 2020 |        |
| PCancCaseOC        |      |      |        |      | 2422 | 2040 | 2040 |        |
| PCancCaseONC       |      |      |        |      | 2423 | 2025 | 2025 |        |
| PCancCaseRsn       |      |      |        |      | 2418 | 2010 | 2010 |        |
| PCancCaseTmg       |      |      |        |      | 2417 | 2005 | 2005 |        |
| PCancCaseVal       |      |      |        |      | 2420 |      |      |        |
| PCancCaseValSur    |      |      |        |      |      | 2030 | 2030 |        |
| PCancCaseValTrans  |      |      |        |      |      | 2035 | 2035 |        |
| PeakPostCreat48Hrs |      |      |        |      |      |      |      | 6550   |
| PerfusTm           | 4360 | 4360 | 1380   | 1380 | 2770 | 2400 | 2400 | 2400   |
| PermAddr           |      |      |        |      | 230  | 120  | 120  |        |
| PlanStagHybrid     |      |      |        |      |      |      | 4970 | 5400   |
| PPEF               |      |      |        |      |      |      | 2582 | 2582   |
| PPEFMeas           |      |      |        |      |      |      | 2581 | 2581   |
| PPPlannedPCI       |      |      |        |      |      |      | 2606 | 2606   |
| Pred14D            |      | 5690 | 3330   | 3330 | 6670 | 5210 | 7210 | 7210   |
| Pred6D             |      | 5680 | 3320   | 3320 | 6660 | 5205 | 7205 | 7205   |
| PredCoefVrsn       |      |      |        | 3249 |      |      |      |        |
| PredDeep           |      | 5620 | 3260   | 3260 | 6600 | 5175 | 7175 | 7175   |
| PredMM             |      | 5670 | 3310   | 3310 | 6650 | 5200 | 7200 | 7200   |
| PredMort           | 2530 | 5610 | 3250   | 3250 | 6590 | 5170 | 7170 | 7170   |
| PredRenF           |      | 5660 | 3300   | 3300 | 6640 | 5195 | 7195 | 7195   |
| PredReop           |      | 5630 | 3270   | 3270 | 6610 | 5180 | 7180 | 7180   |
| PredStro           |      | 5640 | 3280   | 3280 | 6620 | 5185 | 7185 | 7185   |
| PredVent           |      | 5650 | 3290   | 3290 | 6630 | 5190 | 7190 | 7190   |
| PRepAGradM         |      |      |        |      |      |      | 2566 | 2566   |
| PRepAPVL           |      |      |        |      |      |      | 2567 | 2567   |
| PRepAR             |      |      |        |      | 3158 | 2565 | 2565 | 2565   |
| PRepEF             |      |      |        |      |      | 2580 |      |        |
| PRepMGradM         |      |      |        |      |      |      | 2571 | 2571   |
| PRepMPVL           |      |      |        |      |      |      | 2572 | 2572   |
| PRepMR             |      |      |        |      | 3159 | 2570 | 2570 | 2570   |
| PRepTGradM         |      |      |        |      |      |      | 2576 | 2576   |
| PRepTPVL           |      |      |        |      |      |      | 2577 | 2577   |
| PRepTR             |      |      |        |      | 3161 | 2575 | 2575 | 2575   |

| ShortName        | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|------------------|------|------|--------|------|------|------|------|--------|
| PreRSO2Lft       |      |      |        | 1422 | 2940 |      |      |        |
| PreRSO2Rt        |      |      |        | 1423 | 2950 |      |      |        |
| Presentation     |      |      |        |      |      |      | 4710 | 4710   |
| PrevVAD          |      |      | 1920   | 1920 | 4760 | 3790 | 3790 | 3790   |
| PrevVADD         |      |      |        |      | 4771 | 3800 | 3800 | 3800   |
| PrevVADDevice    |      |      |        |      | 4774 | 3815 | 3815 | 3815   |
| PrevVADExp       |      |      |        |      |      | 3825 | 3825 | 3825   |
| PrevVADExpDt     |      |      |        |      |      | 3835 | 3835 |        |
| PrevVADExpRsn    |      |      |        |      |      | 3830 | 3830 |        |
| PrevVADF         |      |      |        | 1921 | 4770 | 3795 | 3795 |        |
| PrevVADIn        |      |      |        |      | 4772 | 3805 | 3805 |        |
| PrevVADTy        |      |      |        |      | 4773 | 3810 | 3810 |        |
| PrevVADUDI       |      |      |        |      |      | 3820 | 3820 | 3820   |
| PrimInc          | 3490 | 3490 |        |      |      |      |      |        |
| PrimIndic        |      |      |        |      |      |      | 4715 | 4712   |
| PrimIndicOther   |      |      |        |      |      |      |      | 4851   |
| PrimMCareFFS     |      |      |        |      |      |      | 292  | 295    |
| PriorAorta       |      |      |        |      |      |      | 4510 | 4510   |
| PriorFailArch    |      |      |        |      |      |      | 4532 | 4532   |
| PriorFailAsc     |      |      |        |      |      |      | 4527 | 4527   |
| PriorFailDesc    |      |      |        |      |      |      | 4537 | 4537   |
| PriorFailInfraAb |      |      |        |      |      |      | 4547 | 4547   |
| PriorFailRoot    |      |      |        |      |      |      | 4522 | 4522   |
| PriorFailSupraAb |      |      |        |      |      |      | 4542 | 4542   |
| PriorProgArch    |      |      |        |      |      |      | 4533 | 4533   |
| PriorProgAsc     |      |      |        |      |      |      | 4528 | 4528   |
| PriorProgDesc    |      |      |        |      |      |      | 4538 | 4538   |
| PriorProgInfraAb |      |      |        |      |      |      | 4548 | 4548   |
| PriorProgRoot    |      |      |        |      |      |      | 4523 | 4523   |
| PriorProgSupraAb |      |      |        |      |      |      | 4543 | 4543   |
| PriorRepArch     |      |      |        |      |      |      | 4530 | 4530   |
| PriorRepAsc      |      |      |        |      |      |      | 4525 | 4525   |
| PriorRepDesc     |      |      |        |      |      |      | 4535 | 4535   |
| PriorRepInfraAb  |      |      |        |      |      |      | 4545 | 4545   |
| PriorRepRoot     |      |      |        |      |      |      | 4520 | 4520   |
| PriorRepSupraAb  |      |      |        |      |      |      | 4540 | 4540   |
| PriorRepTyArch   |      |      |        |      |      |      | 4531 | 4531   |
| PriorRepTyAsc    |      |      |        |      |      |      | 4526 | 4526   |
| PriorRepTyDesc   |      |      |        |      |      |      | 4536 | 4536   |

| ShortName              | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|------------------------|------|------|--------|------|------|------|------|--------|
| PriorRepTyInfraAb      |      |      |        |      |      |      | 4546 | 4546   |
| PriorRepTyRoot         |      |      |        |      |      |      | 4521 | 4521   |
| PriorRepTySupraAb      |      |      |        |      |      |      | 4541 | 4541   |
| ProcID                 | -10  | -10  | -10    | -10  | -10  |      |      |        |
| ProcSed                |      |      |        |      |      |      | 2252 | 2252   |
| ProxTech               |      |      |        |      |      | 2710 | 2710 | 2710   |
| ProxTreatZoneAvail     |      |      |        |      |      |      |      | 4929   |
| ProxTreatZoneAvailLoc  |      |      |        |      |      |      |      | 4930   |
| ProxTreatZoneAvailMeas |      |      |        |      |      |      |      | 4931   |
| ProxTreatZoneAvailMeth |      |      |        |      |      |      |      | 4932   |
| PtLess30PostOthCath    |      |      |        |      |      |      |      | 4784   |
| PtLess30PostTAVR       |      |      |        |      |      |      |      | 4783   |
| PulmonicImplant        |      |      |        |      |      | 3700 | 3700 | 3700   |
| PulmonicImplantTy      |      |      |        |      |      | 3705 | 3705 | 3705   |
| PVCmpBld               |      |      | 2290   | 2290 | 5140 |      |      |        |
| PVCmpBO                |      |      |        | 2341 | 5200 |      |      |        |
| PVCmpDCI               |      |      | 2310   | 2310 | 5160 |      |      |        |
| PVCmpEnd               |      |      | 2330   | 2330 | 5180 |      |      |        |
| PVCmpESt               |      |      | 2300   | 2300 | 5150 |      |      |        |
| PVCmpHem               |      |      |        |      | 5191 |      |      |        |
| PVCmpMal               |      |      | 2340   | 2340 | 5190 |      |      |        |
| PVCmpPPI               |      |      | 2320   | 2320 | 5170 |      |      |        |
| Race                   | 210  | 210  | 190    |      |      |      |      |        |
| RaceAsian              |      |      |        | 193  | 310  | 165  | 165  |        |
| RaceBlack              |      |      |        | 192  | 300  | 160  | 160  |        |
| RaceCaucasian          |      |      |        | 191  | 290  | 155  | 155  |        |
| RaceDocumented         |      |      |        |      |      | 150  | 150  | 150    |
| RaceMulti              |      |      |        |      |      |      |      | 151    |
| RaceNativeAm           |      |      |        | 194  | 320  | 170  | 170  |        |
| RaceOther              |      |      |        | 196  | 340  | 180  | 180  |        |
| RacNativePacific       |      |      |        | 195  | 330  | 175  | 175  |        |
| RadArtUs               | 2670 | 2670 | 1590   | 1590 |      |      |      |        |
| RadHarvPrepTm          |      |      |        |      |      | 2700 | 2636 | 2636   |
| RadHrvstT              |      |      |        | 1602 | 3285 |      |      |        |
| RadHTech               |      |      |        | 1601 | 3280 | 2685 | 2635 |        |
| RadialArtUsed          |      |      |        |      |      |      | 2633 | 2633   |
| RadPrepT               |      |      |        |      | 3286 |      |      |        |
| RcrdNum                | -50  | -50  | -50    | -50  | -50  |      |      |        |
| RecComp                | 70   |      |        |      |      |      |      |        |

| ShortName             | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-----------------------|------|------|--------|------|------|------|------|--------|
| RecordID              | 50   | 50   | 50     | 50   | 50   | 30   | 30   | 30     |
| ResectSubA            |      |      |        |      | 4311 |      |      |        |
| RightIliac            |      |      |        |      |      |      | 5390 | 5378   |
| RightIliacExtraAnatBy |      |      |        |      |      |      |      | 5379   |
| RightIMA              |      |      |        |      |      |      | 2631 | 2628   |
| RightRenal            |      |      |        |      |      |      | 5320 | 5320   |
| RightRenalExtraAnatBy |      |      |        |      |      |      |      | 5321   |
| RIMAHarvTech          |      |      |        |      |      |      | 2632 |        |
| RiskDiscussed         |      |      |        |      |      |      | 1966 | 1966   |
| Robotic               |      |      | 1270   | 1270 | 2436 | 2110 | 2110 | 2110   |
| RobotTim              |      |      |        |      |      | 2115 | 2115 | 2115   |
| RootAAnnEctasia       |      |      |        |      |      |      | 4855 | 4855   |
| RootDilaAsym          |      |      |        |      |      |      | 4870 | 4870   |
| RootSinus             |      |      |        |      |      |      | 4880 | 4878   |
| RootSinusLoc          |      |      |        |      |      |      | 4881 |        |
| RootSinusLocMult      |      |      |        |      |      |      |      | 4880   |
| RoottDilaAsym         |      |      |        |      |      |      | 4875 | 4875   |
| RtIliacFemFem         |      |      |        |      |      |      | 5391 |        |
| RtIliacOther          |      |      |        |      |      |      | 5392 |        |
| RtRenAortaRtRe        |      |      |        |      |      |      | 5335 |        |
| RtRenIliacRtRen       |      |      |        |      |      |      | 5355 |        |
| RtRenOther            |      |      |        |      |      |      | 5365 |        |
| RVADInf               |      |      | 2120   | 2033 |      |      |      |        |
| RVADInf2              |      |      |        | 2132 |      |      |      |        |
| RVADInf3              |      |      |        | 2212 |      |      |      |        |
| SameDay               | 350  | 350  |        |      |      |      |      |        |
| SaphHarPrepTm         |      |      |        |      |      | 2650 | 2640 | 2640   |
| SaphHrvstT            |      |      |        | 1532 | 3206 |      |      |        |
| SaphPrepT             |      |      |        |      | 3207 |      |      |        |
| SCRSO2Lft             |      |      |        | 1427 | 2990 |      |      |        |
| SCRSO2Rt              |      |      |        | 1428 | 3000 |      |      |        |
| SecondMCareFFS        |      |      |        |      |      |      | 294  | 302    |
| SIStartDT             |      |      |        | 1341 | 2690 | 2265 | 2265 | 2265   |
| SIStartT              |      | 4347 | 1330   |      |      |      |      |        |
| SISStopDT             |      |      |        | 1342 | 2700 | 2270 | 2270 | 2270   |
| SISStopT              |      | 4348 | 1340   |      |      |      |      |        |
| SoftVrsn              | 20   | 20   | 20     | 20   | 20   | 10   | 10   |        |
| SomatEvoke            |      |      |        |      |      |      | 5430 | 5430   |
| SomatEvokeAb          |      |      |        |      |      |      | 5431 | 5431   |

| ShortName          | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|--------------------|------|------|--------|------|------|------|------|--------|
| SpinalDrain        |      |      |        |      |      |      | 5420 | 5420   |
| SSN                |      |      |        | 160  | 160  | 80   | 80   | 80     |
| SSNKnown           |      |      |        |      |      |      | 76   | 76     |
| StanfordClass      |      |      |        |      |      |      |      | 4781   |
| Status             | 2300 | 2300 | 1240   | 1240 | 2390 | 1975 | 1975 | 1975   |
| STSCustNum1        |      |      |        | 3400 | 6680 |      |      |        |
| STSCustNum2        |      |      |        | 3410 | 6690 |      |      |        |
| STSCustNum3        |      |      |        | 3420 | 6700 |      |      |        |
| STSCustNum4        |      |      |        | 3430 | 6710 |      |      |        |
| STSCustNum5        |      |      |        | 3440 | 6720 |      |      |        |
| STSCustTxt1        |      |      |        | 3450 | 6730 |      |      |        |
| STSCustTxt2        |      |      |        | 3460 | 6740 |      |      |        |
| STSCustTxt3        |      |      |        | 3470 | 6750 |      |      |        |
| STSCustTxt4        |      |      |        | 3480 | 6760 |      |      |        |
| STSCustTxt5        |      |      |        | 3490 | 6770 |      |      |        |
| STSTLink           |      | 54   | 70     | 70   |      |      |      |        |
| SupMesAortaSuMe    |      |      |        |      |      |      | 5280 |        |
| SupMesenteric      |      |      |        |      |      |      | 5270 | 5270   |
| SupMesExtraAnatByp |      |      |        |      |      |      |      | 5271   |
| SupMesIliacSupMe   |      |      |        |      |      |      | 5300 |        |
| SupMesOther        |      |      |        |      |      |      | 5315 |        |
| SurgDt             | 330  | 330  | 270    | 270  | 610  | 310  | 310  | 310    |
| Surgeon            | 2230 | 2230 | 1210   | 1210 | 2350 | 1955 | 1955 | 1955   |
| SurgGrp            | 2235 | 2235 |        |      |      |      |      |        |
| SurgID             |      |      | 1220   |      |      |      |      |        |
| SurgNPI            |      |      |        | 1221 | 2360 | 1960 | 1960 | 1960   |
| SurgProsValInt     |      |      |        |      |      |      |      | 3612   |
| SurgYear           | -20  | -20  | -20    | -20  | -20  |      |      |        |
| SutrTech           | 4040 | 4040 |        |      |      |      |      |        |
| SynthGft           |      |      |        |      |      | 4380 |      |        |
| SynthGftCSF        |      |      |        |      |      | 4390 |      |        |
| SynthGftEleph      |      |      |        |      |      | 4395 |      |        |
| SynthGftInter      |      |      |        |      |      | 4385 |      |        |
| TempAssistDevPos   |      |      |        |      |      |      |      | 3787   |
| TempCode           |      |      |        |      |      | 5230 | 7230 | 7230   |
| TempDt             |      |      |        |      |      | 5225 | 7225 | 7225   |
| TempMeas           |      |      |        |      |      |      | 2296 | 2296   |
| TempText           |      |      |        |      |      | 5235 | 7235 | 7235   |
| TempYN1            |      |      |        |      |      | 5215 | 7215 | 7215   |

| ShortName               | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-------------------------|------|------|--------|------|------|------|------|--------|
| TempYN2                 |      |      |        |      |      | 5220 | 7220 | 7220   |
| TIN                     |      |      |        | 1222 | 2370 | 1965 | 1965 | 1965   |
| TotalNoDistAnastArtCond |      |      |        |      |      |      |      | 2631   |
| TotCircArrTm            |      |      |        |      |      | 2426 | 2426 | 2426   |
| TotHrICU                |      | 357  | 340    | 340  |      |      |      |        |
| TransDoppler            |      |      |        |      |      |      | 5435 | 5435   |
| Trauma                  |      |      |        |      |      |      | 4675 | 4675   |
| TraumaAbdom             |      |      |        |      |      |      | 4705 |        |
| TraumaArch              |      |      |        |      |      |      | 4690 |        |
| TraumaAsc               |      |      |        |      |      |      | 4685 |        |
| TraumacRoot             |      |      |        |      |      |      | 4680 |        |
| TraumaDesc              |      |      |        |      |      |      | 4695 |        |
| TraumaThorac            |      |      |        |      |      |      | 4700 |        |
| TricusImplantTy         |      |      |        |      |      | 3665 | 3665 | 3665   |
| TricuspidImplant        |      |      |        |      |      | 3660 | 3660 | 3660   |
| TrtZnLrgDiam            |      |      |        |      |      |      |      | 4926   |
| TrtZnLrgDiamMeas        |      |      |        |      |      |      |      | 4927   |
| TrtZnLrgDiamMeasMeth    |      |      |        |      |      |      |      | 4928   |
| UnintRup                |      |      |        |      |      |      | 5407 | 5407   |
| UnintRupLoc             |      |      |        |      |      |      | 5408 | 5408   |
| UnplAo                  |      |      |        |      | 2505 |      |      |        |
| UnplAV                  |      |      |        |      | 2503 |      |      |        |
| UnplCABG                |      |      |        |      | 2502 |      |      |        |
| UnplMV                  |      |      |        |      | 2504 |      |      |        |
| UnplOth                 |      |      |        |      | 2507 |      |      |        |
| UnplProc                |      |      |        |      | 2501 |      |      |        |
| UnplVAD                 |      |      |        |      | 2506 |      |      |        |
| UrgEmergRsn             |      |      |        |      |      | 1990 | 1990 | 1990   |
| UrgntRsn                | 2310 | 2310 | 1250   | 1250 | 2400 |      |      |        |
| VAD                     | 4550 | 4550 | 1300   | 1300 |      |      |      |        |
| VADDiscS                |      |      | 2350   | 2350 | 5210 |      |      |        |
| VADImp                  |      |      |        |      |      | 3840 | 3840 | 3840   |
| VADImpTmg               |      |      |        |      |      | 3845 | 3845 | 3845   |
| VADImpTmg2              |      |      |        |      |      | 3900 | 3900 | 3900   |
| VADImpTmg3              |      |      |        |      |      | 3955 | 3955 | 3955   |
| VADInd                  |      |      | 1930   | 1930 | 4790 | 3850 | 3850 | 3850   |
| VADInd2                 |      |      |        |      |      | 3905 | 3905 | 3905   |
| VADInd3                 |      |      |        |      |      | 3960 | 3960 | 3960   |
| VADListVrsn             |      |      |        | 1922 |      |      |      |        |

| ShortName          | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|--------------------|------|------|--------|------|------|------|------|--------|
| VADProc            |      |      |        |      | 2480 | 2130 |      |        |
| ValExp             |      |      |        |      | 2450 | 3310 | 3310 | 2130   |
| ValExp2            |      |      |        |      | 2463 | 3350 | 3350 | 3350   |
| ValExp2ImplantYr   |      |      |        |      |      |      |      | 3382   |
| ValExp2YrImplantKn |      |      |        |      |      |      |      | 3381   |
| ValExp3            |      |      |        |      |      |      |      | 3385   |
| ValExp3ImplantYr   |      |      |        |      |      |      |      | 3393   |
| ValExp3YrImplantKn |      |      |        |      |      |      |      | 3392   |
| ValExpDev          |      |      |        |      | 2462 | 3335 | 3335 | 3335   |
| ValExpDev2         |      |      |        |      | 2467 | 3375 | 3375 | 3375   |
| ValExpDev3         |      |      |        |      |      |      |      | 3390   |
| ValExpDev3UDI      |      |      |        |      |      |      |      | 3391   |
| ValExpDevKnown     |      |      |        |      |      | 3330 | 3330 | 3330   |
| ValExpDevKnown2    |      |      |        |      |      | 3370 | 3370 | 3370   |
| ValExpDevKnown3    |      |      |        |      |      |      |      | 3389   |
| ValExpDevUDI       |      |      |        |      |      | 3380 | 3380 | 3380   |
| ValExpEt           |      |      |        |      |      | 3325 | 3325 | 3325   |
| ValExpEt2          |      |      |        |      |      | 3365 | 3365 | 3365   |
| ValExpEt3          |      |      |        |      |      |      |      | 3388   |
| ValExpMan          |      |      |        |      | 2461 |      |      |        |
| ValExpMan2         |      |      |        |      | 2466 |      |      |        |
| ValExpPos          |      |      |        |      | 2451 | 3315 | 3315 | 3315   |
| ValExpPos2         |      |      |        |      | 2464 | 3355 | 3355 | 3355   |
| ValExpPos3         |      |      |        |      |      |      |      | 3386   |
| ValExpTyp          |      |      |        |      | 2460 | 3320 | 3320 | 3320   |
| ValExpTyp2         |      |      |        |      | 2465 | 3360 | 3360 | 3360   |
| ValExpTyp3         |      |      |        |      |      |      |      | 3387   |
| ValExpUDI          |      |      |        |      |      | 3340 | 3340 | 3340   |
| ValExpYr           |      |      |        |      |      |      |      | 3342   |
| ValExpYrKn         |      |      |        |      |      |      |      | 3341   |
| ValveVrsn          |      |      |        | 1881 |      |      |      |        |
| VCardTx            |      |      | 2090   |      |      |      |      |        |
| VCardTx2           |      |      | 2190   |      |      |      |      |        |
| VCardTx3           |      |      | 2270   |      |      |      |      |        |
| VenCannInsertSite  |      |      |        |      |      |      |      | 2361   |
| VendorID           | 10   | 10   | 10     | 10   | 10   | 5    | 5    | 5      |
| VenousCondUsed     |      |      |        |      |      |      | 2637 | 2637   |
| VExp               |      |      | 2060   | 2060 | 4900 | 3875 | 3875 | 3875   |
| VExp2              |      |      | 2160   | 2160 | 5000 | 3930 | 3930 | 3930   |

| ShortName    | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|--------------|------|------|--------|------|------|------|------|--------|
| VExp3        |      |      | 2240   | 2240 | 5100 | 3985 | 3985 | 3985   |
| VExpDt       |      |      | 2070   | 2070 | 4910 | 3885 | 3885 | 3885   |
| VExpDt2      |      |      | 2170   | 2170 | 5010 | 3940 | 3940 | 3940   |
| VExpDt3      |      |      | 2250   | 2250 | 5110 | 3995 | 3995 | 3995   |
| VExpRsn      |      |      | 2080   | 2080 | 4920 | 3880 | 3880 | 3880   |
| VExpRsn2     |      |      | 2180   | 2180 | 5020 | 3935 | 3935 | 3935   |
| VExpRsn3     |      |      | 2260   | 2260 | 5120 | 3990 | 3990 | 3990   |
| VImp2        |      |      |        | 2129 | 4940 | 3895 | 3895 | 3895   |
| VImp3        |      |      |        | 2209 | 5040 | 3950 | 3950 | 3950   |
| VImpDt       |      |      | 2050   | 2050 | 4890 | 3865 | 3865 | 3865   |
| VImpDt2      |      |      | 2150   | 2150 | 4990 | 3920 | 3920 | 3920   |
| VImpDt3      |      |      | 2230   | 2230 | 5090 | 3975 | 3975 | 3975   |
| VImpTy       |      |      | 2030   | 2030 | 4850 | 3855 | 3855 | 3855   |
| VImpTy2      |      |      | 2130   | 2130 | 4950 | 3910 | 3910 | 3910   |
| VImpTy3      |      |      | 2210   | 2210 | 5050 | 3965 | 3965 | 3965   |
| VImpUDI      |      |      |        |      |      | 3870 | 3870 | 3870   |
| VImpUDI2     |      |      |        |      |      | 3925 | 3925 | 3925   |
| VImpUDI3     |      |      |        |      |      | 3980 | 3980 | 3980   |
| VProdTy      |      |      | 2040   | 2040 | 4880 | 3860 | 3860 | 3860   |
| VProdTy2     |      |      | 2140   | 2140 | 4980 | 3915 | 3915 | 3915   |
| VProdTy3     |      |      | 2220   | 2220 | 5080 | 3970 | 3970 | 3970   |
| VSAoEx       | 3280 | 3280 |        |      |      |      |      |        |
| VSAoExSz     | 3290 | 3290 |        |      |      |      |      |        |
| VSAoExTy     | 3270 | 3270 |        |      |      |      |      |        |
| VSAoIm       | 3250 | 3250 | 1690   | 1690 | 4330 | 3480 | 3480 | 3480   |
| VSAoImSz     | 3260 | 3260 | 1700   | 1700 | 4340 | 3485 | 3485 | 3485   |
| VSAoImTy     | 3240 | 3240 | 1680   | 1680 |      |      |      |        |
| VSAoImUDI    |      |      |        |      |      | 3490 | 3490 | 3490   |
| VSAV         |      |      |        |      | 4270 | 3390 | 3390 | 2131   |
| VSAVAo       |      |      |        |      |      |      |      | 4951   |
| VSAVCorReimp |      |      |        |      |      |      |      | 4969   |
| VSAVPat      |      |      |        |      |      |      | 3469 |        |
| VSAVPatTy    |      |      |        |      |      |      | 3470 |        |
| VSAVPr       |      |      |        |      | 4280 | 3395 | 3395 | 3395   |
| VSAVPrAo     |      |      |        |      |      |      |      | 4952   |
| VSAVRComA    |      |      |        |      | 4282 | 3410 | 3410 |        |
| VSAVRComRS   |      |      |        |      | 4288 | 3425 | 3425 |        |
| VSAVRDeb     |      |      |        |      | 4289 | 3450 | 3450 |        |
| VSAVRepBioTy |      |      |        |      |      |      | 3465 | 4967   |

| ShortName          | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|--------------------|------|------|--------|------|------|------|------|--------|
| VSAVRExSutAn       |      |      |        |      |      |      | 3411 |        |
| VSAVRLeafShav      |      |      |        |      |      |      | 3441 |        |
| VSAVRLPlic         |      |      |        |      | 4284 | 3415 | 3415 |        |
| VSAVRLPPatch       |      |      |        |      | 4287 | 3445 | 3445 |        |
| VSAVRLResect       |      |      |        |      | 4285 | 3440 | 3440 |        |
| VSAVRNodRel        |      |      |        |      |      |      | 3416 |        |
| VSAVRoot           |      |      |        |      |      |      | 3462 | 4963   |
| VSAVRootOReimp     |      |      |        |      |      |      | 3463 | 4964   |
| VSAVRootOReimpTy   |      |      |        |      |      |      | 3464 | 4966   |
| VSAVRootOReimpType |      |      |        |      |      |      |      | 4965   |
| VSAVRootRecon      |      |      |        |      |      |      | 3468 | 4970   |
| VSAVRPeriLeak      |      |      |        |      |      | 3455 | 3455 |        |
| VSAVRPTFE          |      |      |        |      | 4286 | 3420 | 3420 |        |
| VSAVRRaphe         |      |      |        |      | 4290 | 3430 | 3430 |        |
| VSAVRRingA         |      |      |        |      | 4283 | 3435 | 3435 |        |
| VSAVRRingATy       |      |      |        |      |      |      | 3436 |        |
| VSAVSparRt         |      |      |        |      |      |      | 3466 |        |
| VSAVSparRtOp       |      |      |        |      |      |      | 3467 | 4968   |
| VSAVSurgBioT       |      |      |        |      |      |      | 3409 | 3404   |
| VSAVSurgBioTAo     |      |      |        |      |      |      |      | 4957   |
| VSAVSurgRep        |      |      |        |      |      |      | 3407 | 3402   |
| VSAVSurgRepAo      |      |      |        |      |      |      |      | 4955   |
| VSAVSurgType       |      |      |        |      |      |      | 3408 | 3403   |
| VSAVSurgTypeAo     |      |      |        |      |      |      |      | 4956   |
| VSChordalTransLoc  |      |      |        |      |      |      |      | 3512   |
| VSChorLfAnt        |      |      |        |      |      |      | 3551 |        |
| VSChorLfAntA1      |      |      |        |      |      |      | 3553 |        |
| VSChorLfAntA2      |      |      |        |      |      |      | 3554 |        |
| VSChorLfAntA3      |      |      |        |      |      |      | 3555 |        |
| VSChorLfAntLocD    |      |      |        |      |      |      | 3552 |        |
| VSChorLfCom        |      |      |        |      |      |      | 3561 |        |
| VSChorLfComLoc     |      |      |        |      |      |      | 3562 |        |
| VSChorLfPost       |      |      |        |      |      |      | 3556 |        |
| VSChorLfPostLocD   |      |      |        |      |      |      | 3557 |        |
| VSChorLfPostP1     |      |      |        |      |      |      | 3558 |        |
| VSChorLfPostP2     |      |      |        |      |      |      | 3559 |        |
| VSChorLfPostP3     |      |      |        |      |      |      | 3560 |        |
| VSChorPres         |      |      |        |      | 4450 | 3605 | 3605 | 3605   |
| VSLeafAntRes       |      |      |        |      |      |      | 3517 |        |

| ShortName         | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-------------------|------|------|--------|------|------|------|------|--------|
| VSLeafAntResA1    |      |      |        |      |      |      | 3519 |        |
| VSLeafAntResA2    |      |      |        |      |      |      | 3520 |        |
| VSLeafAntResA3    |      |      |        |      |      |      | 3521 |        |
| VSLeafAntResLocD  |      |      |        |      |      |      | 3518 |        |
| VSLeafComRes      |      |      |        |      |      |      | 3527 |        |
| VSLeafComResLoc   |      |      |        |      |      |      | 3528 |        |
| VSLeafPostRes     |      |      |        |      |      |      | 3522 |        |
| VSLeafPostResLocD |      |      |        |      |      |      | 3523 |        |
| VSLeafPostResP1   |      |      |        |      |      |      | 3524 |        |
| VSLeafPostResP2   |      |      |        |      |      |      | 3525 |        |
| VSLeafPostResP3   |      |      |        |      |      |      | 3526 |        |
| VSLeafRepLoc      |      |      |        |      | 4390 | 3520 |      |        |
| VSLeafResTyp      |      |      |        |      | 4380 | 3515 | 3515 |        |
| VSLeafResTypMult  |      |      |        |      |      |      |      | 3510   |
| VsIStblz          | 4050 | 4050 |        |      |      |      |      |        |
| VSMiEx            | 3340 | 3340 |        |      |      |      |      |        |
| VSMiExSz          | 3350 | 3350 |        |      |      |      |      |        |
| VSMiExTy          | 3330 | 3330 |        |      |      |      |      |        |
| VSMilm            | 3310 | 3310 | 1750   | 1750 | 4430 | 3625 | 3625 | 3625   |
| VSMilmSz          | 3320 | 3320 | 1760   | 1760 | 4440 | 3630 | 3630 | 3630   |
| VSMilmTy          | 3300 | 3300 | 1740   | 1740 |      |      |      |        |
| VSMilmUDI         |      |      |        |      |      | 3635 | 3635 | 3634   |
| VSMitParaprosLeak |      |      |        |      |      |      | 3591 |        |
| VSMitRADecalc     |      |      |        |      | 4393 | 3545 | 3567 |        |
| VSMitRAnnulo      |      |      |        |      | 4361 | 3505 | 3505 |        |
| VSMitRChord       |      |      |        |      | 4401 | 3560 | 3550 |        |
| VSMitREdge        |      |      |        |      | 4403 | 3570 | 3570 |        |
| VSMitRFold        |      |      |        |      |      | 3535 | 3565 |        |
| VSMitRLeafDeb     |      |      |        |      |      | 3530 |      |        |
| VSMitRLeafERP     |      |      |        |      | 4402 | 3565 | 3568 |        |
| VSMitRLeafERPLOC  |      |      |        |      |      |      | 3569 | 3513   |
| VSMitRLeafPlic    |      |      |        |      |      | 3525 |      |        |
| VSMitRLeafRes     |      |      |        |      | 4362 | 3510 | 3510 |        |
| VSMitRMitCleft    |      |      |        |      |      | 3590 | 3590 |        |
| VSMitRMitComm     |      |      |        |      | 4404 | 3580 | 3580 |        |
| VSMitRMitCplasty  |      |      |        |      |      | 3585 | 3585 |        |
| VSMitRMitOth      |      |      |        |      |      | 3595 |      |        |
| VSMitRMLeafClip   |      |      |        |      |      | 3575 |      |        |
| VSMitRPTFE        |      |      |        |      | 4394 | 3550 | 3532 |        |

| ShortName      | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|----------------|------|------|--------|------|------|------|------|--------|
| VSMitRSIidP    |      |      |        |      | 4391 | 3540 | 3566 |        |
| VSMV           |      |      |        |      | 4351 | 3495 | 3495 | 2133   |
| VSMVPr         |      |      |        |      | 4352 | 3500 | 3500 | 3500   |
| VSMVRepApp     |      |      |        |      |      |      | 3501 | 3501   |
| VSMVRepAppSurg |      |      |        |      |      |      |      | 3502   |
| VSMVResLoc     |      |      |        |      |      |      |      | 3503   |
| VSNeoAnt       |      |      |        |      |      |      | 3534 |        |
| VSNeoAntA1     |      |      |        |      |      |      | 3536 |        |
| VSNeoAntA2     |      |      |        |      |      |      | 3537 |        |
| VSNeoAntA3     |      |      |        |      |      |      | 3538 |        |
| VSNeoAntLocD   |      |      |        |      |      |      | 3535 |        |
| VSNeoChNum     |      |      |        |      | 4400 | 3555 |      |        |
| VSNeochordLoc  |      |      |        |      |      |      |      | 3511   |
| VSNeoCom       |      |      |        |      |      |      | 3544 |        |
| VSNeoComLoc    |      |      |        |      |      |      | 3545 |        |
| VSNeoPost      |      |      |        |      |      |      | 3539 |        |
| VSNeoPostLocD  |      |      |        |      |      |      | 3540 |        |
| VSNeoPostP1    |      |      |        |      |      |      | 3541 |        |
| VSNeoPostP2    |      |      |        |      |      |      | 3542 |        |
| VSNeoPostP3    |      |      |        |      |      |      | 3543 |        |
| VSPuEx         | 3460 | 3460 |        |      |      |      |      |        |
| VSPuExSz       | 3470 | 3470 |        |      |      |      |      |        |
| VSPuExTy       | 3450 | 3450 |        |      |      |      |      |        |
| VSPulm         | 3430 | 3430 | 1870   | 1870 | 4580 | 3710 | 3710 | 3710   |
| VSPulmpMat     |      |      |        |      |      |      | 3702 | 3702   |
| VSPulmSz       | 3440 | 3440 | 1880   | 1880 | 4590 | 3715 | 3715 | 3715   |
| VSPulmTy       | 3420 | 3420 | 1860   | 1860 |      |      |      |        |
| VSPulmUDI      |      |      |        |      |      | 3720 | 3720 | 3720   |
| VSPuTypeImp    |      |      |        |      |      |      | 3701 | 3701   |
| VSPV           |      |      |        |      |      | 3685 | 3685 | 2135   |
| VSTCV          |      |      |        |      | 4295 | 3400 | 3400 | 3400   |
| VSTCVAo        |      |      |        |      |      |      |      | 4953   |
| VSTCVMit       |      |      |        |      |      | 3610 | 3610 | 3610   |
| VSTCVPu        |      |      |        |      |      | 3695 | 3695 | 3695   |
| VSTCVR         |      |      |        |      | 4300 | 3405 | 3405 | 3401   |
| VSTCVRAo       |      |      |        |      |      |      |      | 4954   |
| VSTCVTri       |      |      |        |      |      | 3650 | 3652 | 3652   |
| VSTrEx         | 3400 | 3400 |        |      |      |      |      |        |
| VSTrExSz       | 3410 | 3410 |        |      |      |      |      |        |

| ShortName                | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|--------------------------|------|------|--------|------|------|------|------|--------|
| VSTrExTy                 | 3390 | 3390 |        |      |      |      |      |        |
| VSTrIm                   | 3370 | 3370 | 1810   | 1810 | 4540 | 3670 | 3670 | 3670   |
| VSTrImSz                 | 3380 | 3380 | 1820   | 1820 | 4550 | 3675 | 3675 | 3675   |
| VSTrImTy                 | 3360 | 3360 | 1800   | 1800 |      |      |      |        |
| VSTrImUDI                |      |      |        |      |      | 3680 | 3680 | 3680   |
| VSTrLeafRes              |      |      |        |      |      |      | 3649 |        |
| VSTrPr                   |      |      |        |      |      |      |      | 3636   |
| VSTrRepair               |      |      |        |      |      |      | 3646 |        |
| VSTrRepAnnulo            |      |      |        |      |      |      | 3647 |        |
| VSTrReplace              |      |      |        |      |      |      | 3650 |        |
| VSTrValvec               |      |      |        |      |      |      | 3653 | 3683   |
| VSTSRepairType           |      |      |        |      |      |      |      | 3637   |
| VSTV                     |      |      |        |      |      | 3640 | 3640 | 2134   |
| VSTVSurgProsthValIntType |      |      |        |      |      |      |      | 3653   |
| VTxDt                    |      |      | 2100   | 2100 | 4930 |      |      |        |
| VTxDt2                   |      |      | 2200   | 2200 | 5030 |      |      |        |
| VTxDt3                   |      |      | 2280   | 2280 | 5130 |      |      |        |
| WeightKg                 | 400  | 400  | 350    | 350  | 630  | 335  | 335  | 335    |
| XClampTm                 | 4350 | 4350 | 1410   | 1410 | 2880 | 2435 | 2435 | 2435   |
| A1cLvl                   |      |      |        | 412  | 740  | 600  | 600  | 590    |
| ABG                      |      |      |        |      | 900  | 435  | 435  | 435    |
| ABGMgmtDurCool           |      |      |        |      |      |      |      | 7576   |
| ABGMgmtDurRewarm         |      |      |        |      |      |      |      | 7577   |
| ADEt1                    |      |      |        |      |      | 1940 |      |        |
| ADEt2                    |      |      |        |      |      | 1945 |      |        |
| ADEt3                    |      |      |        |      |      | 1950 |      |        |
| ADLesTAneur              |      |      |        |      |      | 1895 |      |        |
| ADLesTCoarcNar           |      |      |        |      |      | 1900 |      |        |
| ADLesTDis                |      |      |        |      |      | 1925 |      |        |
| ADLesTDisTmg             |      |      |        |      |      | 1930 |      |        |
| ADLesTDisTy              |      |      |        |      |      | 1935 |      |        |
| ADLesTIntraHema          |      |      |        |      |      | 1920 |      |        |
| ADLesTPenUlcer           |      |      |        |      |      | 1915 |      |        |
| ADLesTPseudo             |      |      |        |      |      | 1910 |      |        |
| ADLesTRup                |      |      |        |      |      | 1905 |      |        |
| ADLocArch                |      |      |        |      |      | 1880 |      |        |
| ADLocAsc                 |      |      |        |      |      | 1875 |      |        |
| ADLocDesThor             |      |      |        |      |      | 1885 |      |        |
| ADLocRoot                |      |      |        |      |      | 1870 |      |        |

| ShortName                | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|--------------------------|------|------|--------|------|------|------|------|--------|
| ADLocThora               |      |      |        |      |      | 1890 |      |        |
| ADPres                   |      |      |        |      |      | 1865 |      |        |
| AFibRecOREntry           |      |      |        |      |      |      |      | 972    |
| AlbAnesth25Pct           |      |      |        |      |      |      |      | 7454   |
| AlbAnesth5Pct            |      |      |        |      |      |      |      | 7452   |
| Alcohol                  |      |      |        |      | 1131 | 480  | 480  | 480    |
| AnesCareTeamMod          |      |      |        |      |      |      | 7320 | 7320   |
| AnesCareTeamModAARatio   |      |      |        |      |      |      |      | 7322   |
| AnesCareTeamModCRNARatio |      |      |        |      |      |      |      | 7321   |
| AnesthTot25PctAlb        |      |      |        |      |      |      |      | 7455   |
| AnesthTot5PctAlb         |      |      |        |      |      |      |      | 7453   |
| Angina                   | 1380 | 1380 | 780    |      |      |      |      |        |
| AnginalClass             |      |      |        |      | 1570 | 905  |      |        |
| AngType                  | 1390 | 1390 | 790    |      |      |      |      |        |
| AngUnstT                 | 1400 | 1400 |        |      |      |      |      |        |
| ANH                      |      |      |        |      |      |      |      | 7456   |
| ANHVol                   |      |      |        |      |      |      |      | 7457   |
| AnticoagBleedEvtType     |      |      |        |      |      |      |      | 6930   |
| AnticoagPriorCPBArg      |      |      |        |      |      |      |      | 7353   |
| AnticoagPriorCPBBival    |      |      |        |      |      |      |      | 7352   |
| AntithromDose            |      |      |        |      |      |      | 7351 | 7351   |
| AntithromPriorCPB        |      |      |        |      |      |      |      | 7348   |
| AoArcVis                 |      |      |        |      |      |      | 7560 | 7560   |
| AoHemoDatAvail           |      |      |        |      |      | 1605 | 1605 | 1605   |
| AortaDisease             |      |      |        |      |      | 1860 |      |        |
| AorticComp               |      |      |        |      |      |      |      | 6907   |
| AorticValveRegurg        |      |      |        |      |      |      |      | 1585   |
| ArcAthMo                 |      |      |        |      |      |      | 7570 | 7570   |
| ArrhyAfib                |      |      |        | 853  | 1700 |      |      |        |
| ArrhyAfibTy              |      |      |        |      | 1701 |      |      |        |
| Arrhyth                  | 1450 | 1450 | 840    | 840  |      |      |      |        |
| ArrhythAFib              |      |      |        |      |      | 980  | 962  | 971    |
| ArrhythAFibDur           |      |      |        |      |      | 985  |      |        |
| ArrhythAFlutter          |      |      |        |      |      | 960  | 960  | 960    |
| ArrhythAtrFib            |      |      |        |      |      |      | 961  | 961    |
| ArrhyTHB                 |      |      |        | 852  | 1690 |      |      |        |
| Arrhythmia               |      |      |        |      |      | 945  | 945  | 945    |
| ArrhythPPaced            |      |      |        |      |      | 975  | 947  | 947    |
| ArrhythSecond            |      |      |        |      |      | 965  | 965  | 965    |

| ShortName           | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|---------------------|------|------|--------|------|------|------|------|--------|
| ArrhythSSS          |      |      |        |      |      | 955  | 955  | 955    |
| ArrhythThird        |      |      |        |      |      | 970  | 970  | 970    |
| ArrhythVV           |      |      |        |      |      | 950  | 950  | 950    |
| ArrhythWhen         |      |      |        |      | 1650 |      |      |        |
| ArrhyTyp            | 1460 | 1460 | 850    |      |      |      |      |        |
| ArrhyVtach          |      |      |        | 851  | 1660 |      |      |        |
| ArrhyVtachHrtBlk    |      |      |        |      | 1670 |      |      |        |
| ArrhyVtachSicSinSyn |      |      |        |      | 1680 |      |      |        |
| ArtOutTempMeas      |      |      |        |      |      |      |      | 7578   |
| AsAthMo             |      |      |        |      |      |      | 7555 | 7555   |
| AscAoAssessed       |      |      |        |      |      |      | 7540 | 7540   |
| AVStenosis          |      |      |        |      |      |      |      | 1601   |
| BdCryoU             |      |      | 2640   | 2640 | 5650 | 4575 | 6575 | 6575   |
| BdFFPU              |      |      | 2630   | 2630 | 5640 | 4570 | 6570 | 6570   |
| BdPlatDosePk        |      |      |        |      |      |      |      | 6581   |
| BdPlatU             |      |      | 2650   | 2650 | 5660 | 4580 | 6580 |        |
| BdRBCU              |      |      | 2620   | 2620 | 5630 | 4565 | 6565 | 6565   |
| BDTx                |      |      |        |      | 940  | 455  | 455  | 455    |
| BldProd             | 4630 | 4630 | 2610   | 2610 | 5620 | 4560 | 6560 | 6560   |
| BNP                 |      |      |        |      |      | 620  | 620  | 595    |
| Cancer              |      |      |        |      | 1160 | 500  | 500  | 500    |
| CanSite             |      |      |        |      |      | 4720 | 6720 | 6720   |
| CAortReint          |      |      |        |      |      |      | 6774 | 6774   |
| CAortReintTy        |      |      |        |      |      |      | 6775 | 6775   |
| CarCathDt           |      |      |        |      | 1920 | 1150 | 1150 | 1150   |
| CarCathPer          |      |      |        |      | 1910 | 1145 | 1145 | 1145   |
| CardPres            |      |      |        | 791  | 1610 |      |      |        |
| CardRef             |      |      | 3200   | 3200 | 6530 | 5050 | 7010 | 7015   |
| CardSympTimeOfAdm   |      |      |        |      |      | 895  | 895  | 895    |
| CardSympTimeOfSurg  |      |      |        |      |      | 900  | 900  |        |
| CarShock            | 1420 | 1420 | 810    | 810  | 1620 | 930  | 930  | 930    |
| CarShTyp            | 1430 | 1430 | 820    |      |      |      |      |        |
| CellSavVol          |      |      |        |      |      |      | 7335 | 7612   |
| ChestWallDef        |      |      |        |      |      |      | 521  |        |
| CHF                 | 1370 | 1370 | 770    | 770  | 1580 | 910  |      |        |
| ChrLungD            | 660  | 660  | 510    | 510  | 860  | 405  | 405  | 405    |
| ChrLungDType        |      |      |        |      |      | 410  | 410  | 410    |
| CIArm               |      |      |        | 2801 |      |      |      |        |
| CigSmoker           |      |      |        | 385  | 650  |      |      |        |

| ShortName              | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|------------------------|------|------|--------|------|------|------|------|--------|
| CigSmokerCurr          |      |      |        |      | 660  |      |      |        |
| CIleg                  | 4940 | 4940 | 2800   | 2800 | 5940 |      |      |        |
| CircDistSten           |      |      |        |      |      |      |      | 1186   |
| CircDistStenCurRev     |      |      |        |      |      |      |      | 1189   |
| CircDistStenCurRevLock |      |      |        |      |      |      |      | 1188   |
| CircDistStenPercent    |      |      |        |      |      |      |      | 1187   |
| CISeptic               | 4960 | 4960 | 2810   | 2810 |      |      |      |        |
| CISDeep                | 4920 | 4920 | 2780   | 2780 | 5860 |      |      |        |
| CIThor                 | 4930 | 4930 | 2790   | 2790 | 5930 | 4710 | 6710 |        |
| CIThor30               |      |      |        |      |      |      |      | 6711   |
| CIUTI                  | 4970 | 4970 |        |      |      |      |      |        |
| ClassCCS               | 1530 | 1530 |        |      |      |      |      |        |
| ClassNYH               | 1540 | 1540 | 870    | 775  | 1585 | 915  | 915  | 915    |
| CMAD                   |      |      |        |      |      |      | 6892 | 6892   |
| CMADCanIns             |      |      |        |      |      |      | 6893 |        |
| CMADEvents             |      |      |        |      |      |      |      | 6893   |
| CMADHem                |      |      |        |      |      |      | 6894 |        |
| CMADHemolytic          |      |      |        |      |      |      | 6896 |        |
| CMADInf                |      |      |        |      |      |      | 6897 |        |
| CMADOther              |      |      |        |      |      |      | 6898 |        |
| CMADThromEm            |      |      |        |      |      |      | 6895 |        |
| CNComa                 | 5030 | 5030 | 2850   | 2850 |      |      | 6822 |        |
| CNComaEnceph           |      |      |        |      | 6070 | 4820 |      |        |
| CNEnceph               |      |      |        |      |      |      | 6821 | 6821   |
| CNParal                |      |      |        | 2851 | 6110 | 4825 | 6825 | 6825   |
| CNParalTy              |      |      |        | 2852 | 6120 | 4830 | 6826 |        |
| CNParesis              |      |      |        |      |      |      | 6829 | 6829   |
| CNParesisTy            |      |      |        |      |      |      | 6830 |        |
| CNStrokP               | 5000 | 5000 | 2830   | 2830 | 6030 | 4810 | 6810 | 6810   |
| CNStrokT               | 5010 | 5010 | 2840   |      |      |      |      |        |
| CNStrokTRIND           |      |      |        | 2842 |      |      |      |        |
| CNStrokTTIA            |      |      |        | 2841 | 6040 | 4815 | 6815 |        |
| Complics               | 4760 | 4760 | 2710   | 2710 | 5759 | 4750 | 6750 | 6750   |
| ConduitHarv            |      |      |        |      |      | 4715 | 6715 | 6715   |
| COPPerMI               | 4890 | 4890 | 2770   | 2770 |      |      |      |        |
| COPPlndDelay           |      |      |        |      | 5811 | 4785 | 6785 | 6785   |
| COPReBld               | 4840 | 4840 | 2720   | 2720 | 5760 | 4755 | 6755 | 6755   |
| COPReBldTim            |      |      |        |      | 5770 | 4760 | 6760 | 6760   |
| COPReGft               | 4860 | 4860 | 2740   | 2740 | 5790 | 4770 |      |        |

| ShortName          | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|--------------------|------|------|--------|------|------|------|------|--------|
| COpReNon           | 4880 | 4880 | 2760   | 2760 | 5810 | 4780 | 6780 | 6780   |
| COpReOth           | 4870 | 4870 | 2750   | 2750 | 5800 | 4775 | 6778 | 6778   |
| COpReVlv           | 4850 | 4850 | 2730   | 2730 | 5780 | 4765 | 6765 | 6765   |
| CorAnatDisKnown    |      |      |        |      |      | 1155 | 1155 | 1155   |
| CoreTempMax        |      |      |        |      |      |      | 7440 | 7440   |
| CoreTempSrc        |      |      |        |      |      |      | 7435 | 7435   |
| COTAFib            | 5320 | 5320 | 2990   | 2990 | 6330 | 4930 | 6930 | 6945   |
| COTaortEndo        |      |      |        |      |      |      | 6906 | 6921   |
| COTaortEndoTy      |      |      |        |      |      |      | 6907 | 6922   |
| COTaortRupt        |      |      |        |      |      |      | 6908 |        |
| COTaortSide        |      |      |        |      |      |      | 6911 | 6926   |
| COTaortTear        |      |      |        |      |      |      | 6912 | 6927   |
| COTarrst           | 5270 | 5270 | 2940   | 2940 | 6280 | 4905 | 6905 | 6905   |
| COTCoag            | 5280 | 5280 | 2950   | 2950 | 6290 | 4910 | 6914 | 6929   |
| COTGI              | 5300 | 5300 | 2970   | 2970 | 6310 | 4920 | 6920 | 6935   |
| COThtBlk           | 5260 | 5260 | 2930   | 2930 |      |      |      |        |
| COTLiver           |      |      |        |      |      |      | 6921 |        |
| COTMSF             | 5310 | 5310 | 2980   | 2980 | 6320 | 4925 | 6925 |        |
| COTOther           |      |      | 3010   | 3010 | 6350 | 4950 | 6950 |        |
| COTamp             | 5290 | 5290 | 2960   | 2960 | 6300 | 4915 | 6915 | 6933   |
| CPBUsed            |      |      |        |      |      |      | 7575 | 7575   |
| CPIEff             |      |      |        |      | 6190 | 4860 | 6860 | 6860   |
| CPPneum            | 5100 | 5100 | 2880   | 2880 | 6150 | 4840 | 6840 | 6840   |
| CPPulEmb           | 5070 | 5070 | 2870   | 2870 |      |      |      |        |
| CPVntLng           | 5050 | 5050 | 2860   | 2860 | 6130 | 4835 | 6835 | 6835   |
| CPVntLngTrachReq   |      |      |        |      |      |      |      | 6838   |
| CreatLst           | 550  | 525  | 430    | 430  | 750  | 585  | 585  | 605    |
| CReintMI           |      |      |        |      |      |      | 6771 | 6771   |
| CReintMIIntTy      |      |      |        |      |      |      | 6773 | 6773   |
| CReintMIVes        |      |      |        |      |      |      | 6772 | 6772   |
| CRenDial           |      | 5130 | 2900   | 2900 | 6210 | 4875 | 6875 | 6875   |
| CRenFail           | 5120 | 5120 | 2890   | 2890 | 6200 | 4870 | 6870 | 6870   |
| CRhythmDis         |      |      |        |      | 6270 | 4900 | 6900 |        |
| CrystGivenAnesth   |      |      |        |      |      |      |      | 7448   |
| CrystGivenAnesthTy |      |      |        |      |      |      |      | 7451   |
| CrystPerfTy        |      |      |        |      |      |      |      | 7586   |
| CSepsis            |      |      |        |      | 6010 | 4800 | 6800 | 6800   |
| CSepsisPBC         |      |      |        |      | 6020 | 4805 | 6805 |        |
| CSternal           |      |      |        |      | 5830 | 4790 | 6790 |        |

| ShortName              | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|------------------------|------|------|--------|------|------|------|------|--------|
| CSternalDehis          |      |      |        |      | 5840 | 4795 | 6795 |        |
| CSternalMedia          |      |      |        |      | 5870 |      |      |        |
| CSternalMediaDtDiag    |      |      |        |      | 5880 |      |      |        |
| CSternalMediaSPMuscle  |      |      |        |      | 5910 |      |      |        |
| CSternalMediaSPOmental |      |      |        |      | 5920 |      |      |        |
| CSternalMediaSPOpen    |      |      |        |      | 5890 |      |      |        |
| CSternalMediaSPWVac    |      |      |        |      | 5900 |      |      |        |
| CSternalSupInf         |      |      |        |      | 5850 | 4695 | 6695 | 6695   |
| CUltraFil              |      |      |        |      | 6230 | 4885 | 6885 |        |
| CVA                    | 590  | 590  | 470    | 552  | 1020 | 530  | 530  | 530    |
| CVaAoDis               | 5220 | 5220 | 3000   | 3000 | 6340 | 4935 | 6909 | 6909   |
| CVaAoDisTy             |      |      |        |      |      |      | 6910 |        |
| CVallFem               | 5230 | 5230 | 2910   | 2910 | 6240 | 4890 | 6890 | 6888   |
| CVaLbIsC               | 5240 | 5240 | 2920   | 2920 | 6250 | 4895 | 6891 | 6889   |
| CVAWhen                | 600  | 600  | 480    | 553  | 1030 | 535  | 535  | 535    |
| CVD                    | 690  | 690  | 540    | 540  | 1010 | 525  | 525  | 525    |
| CVDCarSten             |      |      |        |      | 1070 | 545  | 545  | 545    |
| CVDComa                |      |      |        | 551  |      |      |      |        |
| CVDNInvas              |      |      |        | 556  |      |      |      |        |
| CVDPCarSurg            |      |      |        | 557  | 1080 | 560  | 560  | 560    |
| CVDRIND                |      |      |        | 554  |      |      |      |        |
| CVDStenLft             |      |      |        |      | 1072 | 555  | 555  | 555    |
| CVDStenRt              |      |      |        |      | 1071 | 550  | 550  | 550    |
| CVDTIA                 |      |      |        | 555  | 1050 | 540  | 540  | 540    |
| CVDType                | 700  | 700  | 550    |      |      |      |      |        |
| CVTE                   |      |      |        |      | 6160 | 4845 | 6845 |        |
| DCAArhy                |      |      | 3100   | 3100 | 6440 |      |      |        |
| DCAArMN                |      |      | 3110   | 3110 |      |      |      |        |
| DCACE                  |      | 5332 | 3130   | 3130 | 6470 | 5100 | 7100 | 7100   |
| DCADP                  |      |      | 3090   | 3090 | 6430 | 5070 | 7070 | 7070   |
| DCAmiodarone           |      |      |        |      |      | 5110 | 7103 | 7103   |
| DCAntPlt               |      | 5335 |        |      |      |      |      |        |
| DCASA                  |      | 5331 | 3120   | 3120 | 6460 | 5060 | 7060 | 7060   |
| DCBeta                 |      | 5333 | 3140   | 3140 | 6480 | 5105 | 7105 | 7105   |
| DCCoum                 |      |      | 3180   | 3180 | 6510 | 5085 | 7085 | 7085   |
| DCDirOralAnticoag      |      |      |        |      |      |      |      | 7081   |
| DCDirThromIn           |      |      |        |      | 6511 | 5080 | 7080 |        |
| DCFactorXa             |      |      |        |      |      | 5090 | 7090 |        |
| DCLipid                |      | 5334 | 3150   | 3150 | 6490 |      |      |        |

| ShortName                | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|--------------------------|------|------|--------|------|------|------|------|--------|
| DCLipLowNonStat          |      |      |        |      |      | 5120 | 7120 | 7120   |
| DCLipLowStat             |      |      |        |      |      | 5115 | 7115 | 7115   |
| DCLipMT                  |      |      | 3160   | 3160 | 6500 |      |      |        |
| DCNovOrAnti              |      |      |        |      |      |      | 7091 |        |
| DCOthAnticoag            |      |      |        |      |      | 5095 | 7095 | 7095   |
| DCOthAntiplat            |      |      |        |      |      | 5075 | 7075 | 7075   |
| DGP2Y12                  |      |      |        |      |      | 5065 |      |        |
| DeepSternalInf90         |      |      |        |      |      |      |      | 6749   |
| DeepSternInf             |      |      |        |      |      | 4700 | 6700 | 6700   |
| DeepSternInfDt           |      |      |        |      |      | 4705 | 6705 | 6705   |
| Depression               |      |      |        |      |      | 475  | 475  |        |
| DexIntra                 |      |      |        |      |      |      | 7390 |        |
| DexPost                  |      |      |        |      |      |      | 7710 |        |
| DiabCtrl                 | 490  | 490  | 410    | 410  | 790  | 365  | 365  | 365    |
| Diabetes                 | 480  | 480  | 400    | 400  | 780  | 360  | 360  | 360    |
| DialDur                  |      |      |        |      | 6220 | 4880 | 6880 | 6880   |
| DialStat                 |      |      |        |      |      |      | 6881 |        |
| Dialysis                 | 560  | 560  | 450    | 450  | 810  | 375  | 375  | 375    |
| DimAvail                 |      |      |        |      |      | 1555 | 1555 | 1555   |
| DischDt                  | 340  | 340  | 280    | 280  | 620  | 315  | 7008 | 7006   |
| DischMortStat            |      |      |        |      |      |      | 7005 | 7007   |
| DischMtPtAcuteHospStill  |      |      |        |      |      |      |      | 7005   |
| DischMtPtTrnfAcuteHosp   |      |      |        |      |      |      |      | 7003   |
| DischMtPtTrnfAcuteHospDt |      |      |        |      |      |      |      | 7004   |
| DisLExtCareTCURehabTy    |      |      |        |      |      |      |      | 7011   |
| DisLoctn                 |      | 5336 | 3190   | 3190 | 6520 | 5045 | 7009 | 7010   |
| DLCO                     |      |      |        |      | 892  | 425  | 425  | 425    |
| DLCOPred                 |      |      |        |      | 893  | 430  | 430  | 430    |
| Dominance                |      |      |        |      |      | 1160 | 1160 |        |
| DrugUse30D               |      |      |        |      |      |      |      | 472    |
| DVT                      |      |      |        |      | 6180 | 4855 | 6855 | 6891   |
| Dyslip                   |      |      |        | 421  | 800  | 370  | 370  |        |
| ExtubOR                  |      |      | 2660   | 2660 | 5670 | 4585 | 6585 | 6585   |
| FEV1                     |      |      |        |      | 890  | 420  | 420  | 420    |
| FFPPriorCPB              |      |      |        |      |      |      |      | 7346   |
| FFPPriorCPBUnits         |      |      |        |      |      |      |      | 7347   |
| FFRAM                    |      |      |        |      |      | 1470 | 1470 |        |
| FFRCircflx               |      |      |        |      |      | 1350 | 1350 |        |
| FFRDiag1                 |      |      |        |      |      | 1290 | 1290 |        |

| ShortName         | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-------------------|------|------|--------|------|------|------|------|--------|
| FFRDiag2          |      |      |        |      |      | 1310 | 1310 |        |
| FFRDiag3          |      |      |        |      |      | 1330 | 1330 |        |
| FFRDistLAD        |      |      |        |      |      | 1270 | 1270 |        |
| FFRLMain          |      |      |        |      |      | 1210 | 1210 |        |
| FFRMidLAD         |      |      |        |      |      | 1250 | 1250 |        |
| FFROM1            |      |      |        |      |      | 1370 | 1370 |        |
| FFROM2            |      |      |        |      |      | 1390 | 1390 |        |
| FFROM3            |      |      |        |      |      | 1410 | 1410 |        |
| FFRPDA            |      |      |        |      |      | 1490 | 1490 |        |
| FFRPerf           |      |      |        |      |      | 1190 | 1190 |        |
| FFRPLB            |      |      |        |      |      | 1510 | 1510 |        |
| FFRProxLAD        |      |      |        |      |      | 1230 | 1230 |        |
| FFRRamus          |      |      |        |      |      | 1430 | 1430 |        |
| FFRCA             |      |      |        |      |      | 1450 | 1450 |        |
| FHCAD             | 470  | 470  | 390    | 390  | 670  | 355  | 355  | 355    |
| FiveMWalk1        |      |      |        |      | 1170 | 650  | 650  | 650    |
| FiveMWalk2        |      |      |        |      | 1180 | 655  | 655  | 655    |
| FiveMWalk3        |      |      |        |      | 1190 | 660  | 660  | 660    |
| FiveMWalkTest     |      |      |        |      | 1161 | 645  | 645  | 645    |
| GDF15             |      |      |        |      |      | 640  |      |        |
| GIEventType       |      |      |        |      |      |      |      | 6936   |
| GlucTroughIntraop |      |      |        |      |      |      | 7470 | 7465   |
| GraftsPrsnt       |      |      |        |      |      | 1180 | 1180 |        |
| GrftStenAM        |      |      |        |      |      | 1460 | 1460 |        |
| GrftStenCircflx   |      |      |        |      |      | 1340 | 1340 |        |
| GrftStenDiag1     |      |      |        |      |      | 1280 | 1280 |        |
| GrftStenDiag2     |      |      |        |      |      | 1300 | 1300 |        |
| GrftStenDiag3     |      |      |        |      |      | 1320 | 1320 |        |
| GrftStenDistLAD   |      |      |        |      |      | 1260 | 1260 |        |
| GrftStenLMain     |      |      |        |      |      | 1200 | 1200 |        |
| GrftStenMidLAD    |      |      |        |      |      | 1240 | 1240 |        |
| GrftStenOM1       |      |      |        |      |      | 1360 | 1360 |        |
| GrftStenOM2       |      |      |        |      |      | 1380 | 1380 |        |
| GrftStenOM3       |      |      |        |      |      | 1400 | 1400 |        |
| GrftStenPDA       |      |      |        |      |      | 1480 | 1480 |        |
| GrftStenPLB       |      |      |        |      |      | 1500 | 1500 |        |
| GrftStenProxLAD   |      |      |        |      |      | 1220 | 1220 |        |
| GrftStenRamus     |      |      |        |      |      | 1420 | 1420 |        |
| GrftStenRCA       |      |      |        |      |      | 1440 | 1440 |        |

| ShortName      | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|----------------|------|------|--------|------|------|------|------|--------|
| Hct            |      |      |        | 391  | 680  | 575  | 575  | 575    |
| HDEF           | 1860 | 1860 | 1080   | 1080 | 1960 | 1545 | 1545 | 1545   |
| HDEFD          |      | 1858 | 1070   | 1070 | 1950 | 1540 | 1540 | 1540   |
| HDEFMeth       | 1870 | 1870 | 1090   | 1090 | 1970 |      |      |        |
| HDPAD          |      | 1915 | 1100   | 1100 |      |      |      |        |
| HDPAMean       | 1940 | 1940 | 1110   | 1110 |      |      |      |        |
| HeartFail      |      |      |        |      |      |      | 911  | 911    |
| HeartFailTmg   |      |      |        |      |      |      | 912  | 912    |
| HeartFailType  |      |      |        |      |      |      | 913  | 913    |
| HemofilPerf    |      |      |        |      |      |      | 7600 | 7600   |
| HepMgmt        |      |      |        |      |      |      | 7345 | 7345   |
| HepPriorCPB    |      |      |        |      |      |      |      | 7335   |
| HighArtOutTemp |      |      |        |      |      |      |      | 7579   |
| HIT            |      |      |        |      |      |      |      | 6931   |
| HITAnti        |      |      |        |      | 711  | 605  | 605  | 620    |
| HITT           |      |      |        |      |      |      |      | 6932   |
| HmO2           |      |      |        |      | 930  | 450  | 450  | 450    |
| hsCRP          |      |      |        |      |      | 635  |      |        |
| hsTnT          |      |      |        |      |      | 630  |      |        |
| Hypertn        | 570  | 570  | 460    | 460  | 820  | 380  | 380  | 380    |
| Hyprrchol      | 510  | 510  | 420    |      |      |      |      |        |
| ICUAdHrs       |      | 356  | 330    | 330  | 5730 | 4620 | 6620 | 6620   |
| ICUInHrs       |      | 354  | 310    | 310  | 5710 | 4610 | 6610 | 6610   |
| ICUReadm       |      | 355  | 320    | 320  | 5720 | 4615 | 6615 | 6615   |
| ICUVisit       |      |      | 300    | 300  | 5700 | 4605 | 6605 | 6605   |
| IFRAM          |      |      |        |      |      |      | 1472 |        |
| IFRCircflx     |      |      |        |      |      |      | 1352 |        |
| IFRDiag1       |      |      |        |      |      |      | 1292 |        |
| IFRDiag2       |      |      |        |      |      |      | 1312 |        |
| IFRDiag3       |      |      |        |      |      |      | 1332 |        |
| IFRDistLAD     |      |      |        |      |      |      | 1272 |        |
| IFRLMain       |      |      |        |      |      |      | 1212 |        |
| IFRMidLAD      |      |      |        |      |      |      | 1252 |        |
| IFROM1         |      |      |        |      |      |      | 1372 |        |
| IFROM2         |      |      |        |      |      |      | 1392 |        |
| IFROM3         |      |      |        |      |      |      | 1412 |        |
| IFRPDA         |      |      |        |      |      |      | 1492 |        |
| IFRPerf        |      |      |        |      |      |      | 1191 |        |
| IFRPLB         |      |      |        |      |      |      | 1512 |        |

| ShortName             | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-----------------------|------|------|--------|------|------|------|------|--------|
| IFRProxLAD            |      |      |        |      |      |      | 1232 |        |
| IFRRamus              |      |      |        |      |      |      | 1432 |        |
| IFRRCA                |      |      |        |      |      |      | 1452 |        |
| ImmSupp               | 670  | 670  | 520    | 520  | 970  | 490  | 490  | 492    |
| IndReop               |      |      |        |      | 1340 |      |      |        |
| InfEndCult            |      |      |        |      | 850  | 395  | 395  | 395    |
| InfEndo               | 610  | 610  | 490    | 490  | 830  | 385  | 385  | 385    |
| InfEndTy              | 620  | 620  | 500    | 500  | 840  | 390  | 390  | 390    |
| InhalVaso             |      |      |        |      |      |      |      | 7462   |
| InHospDthLoc          |      |      |        |      |      |      | 7123 |        |
| InotropWeanCPB        |      |      |        |      |      |      | 7605 | 7605   |
| INR                   |      |      |        |      | 710  | 610  | 610  | 615    |
| IntraCardArr          |      |      |        |      |      |      | 7641 |        |
| IntraFent             |      |      |        |      |      |      |      | 7402   |
| IntraFentDose         |      |      |        |      |      |      |      | 7404   |
| IntraInsul            |      |      |        |      |      |      |      | 7473   |
| IntraopGlucTrough     |      |      |        |      |      |      |      | 7464   |
| IntraopMidaz          |      |      |        |      |      |      |      | 7398   |
| IntraOpPostTEE        |      |      |        |      |      |      | 7615 | 7615   |
| IntraOpPreTEE         |      |      |        |      |      |      | 7480 | 7480   |
| IntraopRemifent       |      |      |        |      |      |      |      | 7410   |
| IntraopRemifentDose   |      |      |        |      |      |      |      | 7412   |
| IntraopSufent         |      |      |        |      |      |      |      | 7406   |
| IntraopSufentDose     |      |      |        |      |      |      |      | 7408   |
| IntraProcEEG          |      |      |        |      |      |      | 7476 | 7476   |
| IntraViscoTest        |      |      |        |      |      |      | 7360 | 7360   |
| IVDrugAb              |      |      |        |      | 1130 | 470  | 470  | 470    |
| IVDrugUse1Yr          |      |      |        |      |      |      |      | 471    |
| LADDistSten           |      |      |        |      |      |      |      | 1178   |
| LADDistStenCurRev     |      |      |        |      |      |      |      | 1181   |
| LADDistStenCurRevLock |      |      |        |      |      |      |      | 1180   |
| LADDistStenPercent    |      |      |        |      |      |      |      | 1179   |
| LFUDate               |      |      |        |      |      |      | 7000 |        |
| LiverChildPugh        |      |      |        |      |      |      | 486  | 488    |
| LiverCirrhosis        |      |      |        |      |      |      |      | 486    |
| LiverDis              |      |      |        |      | 960  | 485  | 485  | 485    |
| LiverStatusPost       |      |      |        |      |      |      | 488  |        |
| LiverTransList        |      |      |        |      |      |      | 487  |        |
| LMainDis              | 1830 | 1830 | 1060   | 1060 | 1940 |      |      |        |

| ShortName     | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|---------------|------|------|--------|------|------|------|------|--------|
| LtAtrMedLatSz |      |      |        |      |      |      |      | 7493   |
| LtAtrSupInfSz |      |      |        |      |      |      |      | 7492   |
| LtAtrSz       |      |      |        |      |      |      |      | 7491   |
| LVEDD         |      |      |        |      | 1990 | 1565 | 1565 | 1565   |
| LVSD          |      |      |        |      | 1980 | 1560 | 1560 | 1560   |
| MedAArrhy     |      |      |        |      | 1770 |      |      |        |
| MedACEI       |      | 1670 | 900    | 900  |      |      |      |        |
| MedACEI48     |      |      |        |      | 1730 | 1020 | 1020 | 1020   |
| MedACMN       |      |      | 940    | 940  | 1760 | 1045 | 1080 | 1080   |
| MedAcoag      | 1720 | 1720 | 930    | 930  | 1750 | 1040 | 1075 | 1075   |
| MedADP5Days   |      |      |        | 1021 | 1850 | 1025 | 1060 | 1060   |
| MedADPI       |      |      | 1020   |      |      |      |      |        |
| MedADPIDis    |      |      |        | 1022 | 1860 | 1030 | 1065 | 1065   |
| MedAmiodarone |      |      |        |      |      | 1035 | 1025 | 1025   |
| MedAPlt       |      | 1710 |        |      |      |      |      |        |
| MedAplt5Days  |      |      |        | 1023 | 1870 | 1050 |      |        |
| MedASA        | 1760 | 1760 | 990    | 990  | 1820 | 1055 | 1070 | 1070   |
| MedASADis     |      |      |        |      |      |      | 1071 | 1071   |
| MedASAOnce    |      |      |        |      |      |      | 1072 | 1072   |
| MedBeta       | 1650 | 1650 | 890    | 890  | 1710 | 1060 | 1030 | 1030   |
| MedBetaTher   |      |      |        |      |      | 1065 | 1035 | 1035   |
| MedCChanTher  |      |      |        |      |      | 1070 | 1040 | 1040   |
| MedCoum       |      |      | 950    | 950  | 1780 | 1075 |      |        |
| MedCoum5Days  |      |      |        |      |      |      | 1091 | 1091   |
| MedCoum5Dis   |      |      |        |      |      |      | 1092 | 1092   |
| MedDig        | 1640 | 1640 |        |      |      |      |      |        |
| MedDiur       | 1730 | 1730 |        |      |      |      |      |        |
| MedDOAC       |      |      |        |      |      |      |      | 1093   |
| MedDOAC5Dis   |      |      |        |      |      |      |      | 1094   |
| MedGP         |      |      | 1030   | 1030 | 1880 | 1085 | 1073 | 1073   |
| MedGPMN       |      |      | 1040   | 1040 | 1890 | 1090 |      |        |
| MediastRad    |      |      |        |      | 1150 | 495  | 495  | 495    |
| MedInotr      | 1740 | 1740 | 970    | 970  | 1790 | 1095 | 1130 | 1130   |
| MedLipid      |      |      | 1000   | 1000 | 1830 | 1100 | 1135 | 1135   |
| MedLipMN      |      |      | 1010   | 1010 | 1840 | 1105 |      |        |
| MedLipType    |      |      |        |      |      |      | 1141 | 1141   |
| MedLongActNit |      |      |        |      |      | 1110 | 1045 | 1045   |
| MedNitIV      | 1690 | 1690 | 910    | 910  | 1740 | 1115 | 1050 | 1050   |
| MedNOAC5Days  |      |      |        |      |      |      | 1111 |        |

| ShortName            | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|----------------------|------|------|--------|------|------|------|------|--------|
| MedNOACDisc          |      |      |        |      |      |      | 1112 |        |
| MedOthAntiang        |      |      |        |      |      | 1120 | 1055 | 1055   |
| MedSter              | 1750 | 1750 | 980    | 980  | 1800 | 1130 | 1143 | 1143   |
| MedThrom             |      |      |        |      | 1900 | 1140 | 1125 | 1125   |
| MedThrombinIn        |      |      |        |      |      | 1135 |      |        |
| MedThromIn5Days      |      |      |        |      |      |      | 1121 |        |
| MedThromInDisc       |      |      |        |      |      |      | 1122 |        |
| MedXa5Days           |      |      |        |      |      |      | 1101 |        |
| MedXa5DDis           |      |      |        |      |      |      | 1102 |        |
| MedXaInhibitors      |      |      |        |      |      | 1080 |      |        |
| MELDScr              |      |      |        |      | 815  | 615  | 615  | 625    |
| MI                   | 1340 | 1340 | 750    |      |      |      |      |        |
| MidazIntra           |      |      |        |      |      |      | 7400 | 7400   |
| MiHemoDatAvail       |      |      |        |      |      | 1695 | 1695 | 1695   |
| MIWhen               | 1360 | 1360 | 760    | 760  | 1550 | 890  | 890  | 890    |
| Mortality            |      | 5337 | 3020   | 3020 | 6360 | 5005 |      |        |
| Mt30Stat             | 5350 | 5350 | 3040   | 3040 | 6380 | 5015 | 7001 | 7001   |
| Mt30StatMeth         |      |      |        |      | 6381 | 5020 | 7002 |        |
| MtCause              | 5380 | 5380 | 3080   | 3080 | 6420 | 5040 | 7122 | 7126   |
| MtDate               | 5360 | 5360 | 3060   | 3060 | 6400 | 5030 | 7121 | 7121   |
| MtDCStat             | 5340 | 5340 | 3030   | 3030 | 6370 | 5010 |      |        |
| MtLocatn             | 5370 | 5370 | 3070   | 3070 | 6410 | 5035 |      |        |
| MtOpD                | 5400 | 5355 | 3050   | 3050 | 6390 | 5025 | 7124 | 7124   |
| MultimodAnalges      |      |      |        |      |      |      |      | 7414   |
| MultimodAnalgesGiven |      |      |        |      |      |      |      | 7413   |
| MVRegurg             |      |      |        |      |      |      |      | 1679   |
| MVStenDeg            |      |      |        |      |      |      |      | 1691   |
| MxArcAth             |      |      |        |      |      |      | 7565 | 7565   |
| MxAscAo              |      |      |        |      |      |      | 7545 | 7545   |
| MxAscAoThick         |      |      |        |      |      |      | 7550 | 7550   |
| NewRhythmDis         |      |      |        |      |      |      |      | 6901   |
| NitricOxIntraop      |      |      |        |      |      |      | 7445 |        |
| NonInfSurgWndDeh     |      |      |        |      |      |      |      | 6748   |
| NonStVDys            |      |      |        |      | 1350 |      |      |        |
| NTproBNP             |      |      |        |      |      | 625  |      |        |
| NumDisV              | 1820 | 1820 | 1050   | 1050 | 1930 | 1170 | 1170 | 1170   |
| ORDeath              |      |      |        |      |      |      | 7645 | 7645   |
| OrgPartAdAnesthSect  |      |      |        |      |      |      |      | 7300   |
| OthTobUse            |      |      |        |      | 661  |      |      |        |

| ShortName      | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|----------------|------|------|--------|------|------|------|------|--------|
| PACIntra       |      |      |        |      |      |      | 7430 | 7329   |
| PainScoreDisch |      |      |        |      |      |      | 7735 | 7735   |
| PainScorePOD3  |      |      |        |      |      |      | 7730 | 7730   |
| PainScorePre   |      |      |        |      |      |      | 7325 | 7325   |
| ParticID       | 425  | 352  | 289    | 298  | 648  |      |      |        |
| PASYS          |      |      |        |      | 2030 | 1575 | 1575 | 1575   |
| PASYSMeas      |      |      |        |      | 2020 | 1570 | 1570 | 1570   |
| PCO2           |      |      |        |      | 920  | 440  | 440  | 440    |
| PctStenAM      |      |      |        |      |      | 1455 | 1455 |        |
| PctStenCircflx |      |      |        |      |      | 1335 | 1335 |        |
| PctStenDiag1   |      |      |        |      |      | 1275 | 1275 |        |
| PctStenDiag2   |      |      |        |      |      | 1295 | 1295 |        |
| PctStenDiag3   |      |      |        |      |      | 1315 | 1315 |        |
| PctStenDistLAD |      |      |        |      |      | 1255 | 1255 |        |
| PctStenKnown   |      |      |        |      |      | 1175 | 1175 |        |
| PctStenLMain   |      |      |        |      |      | 1195 | 1195 |        |
| PctStenMidLAD  |      |      |        |      |      | 1235 | 1235 |        |
| PctStenOM1     |      |      |        |      |      | 1355 | 1355 |        |
| PctStenOM2     |      |      |        |      |      | 1375 | 1375 |        |
| PctStenOM3     |      |      |        |      |      | 1395 | 1395 |        |
| PctStenPDA     |      |      |        |      |      | 1475 | 1475 |        |
| PctStenPLB     |      |      |        |      |      | 1495 | 1495 |        |
| PctStenProxLAD |      |      |        |      |      | 1215 | 1215 |        |
| PctStenRamus   |      |      |        |      |      | 1415 | 1415 |        |
| PctStenRCA     |      |      |        |      |      | 1435 | 1435 |        |
| PFT            |      |      |        |      | 880  | 415  | 415  | 415    |
| PhrenNrvInj    |      |      |        |      | 6342 | 4945 | 6832 |        |
| Platelets      |      |      |        |      | 700  | 580  | 580  | 580    |
| Pneumonia      |      |      |        |      | 1140 | 465  | 465  | 465    |
| PO2            |      |      |        |      | 910  | 445  | 445  | 445    |
| POArr          |      |      |        |      | 1445 |      |      |        |
| POC            |      |      |        |      |      | 805  | 805  | 805    |
| POCInt1        |      |      |        |      |      | 810  | 810  | 810    |
| POCInt2        |      |      |        |      |      | 815  | 815  | 815    |
| POCInt3        |      |      |        |      |      | 820  | 820  | 820    |
| POCInt4        |      |      |        |      |      | 825  | 825  | 825    |
| POCInt5        |      |      |        |      |      | 830  | 830  | 830    |
| POCInt6        |      |      |        |      |      | 835  | 835  | 835    |
| POCInt7        |      |      |        |      |      | 840  | 840  | 840    |

| ShortName      | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|----------------|------|------|--------|------|------|------|------|--------|
| POCO           |      |      |        | 671  | 1530 |      |      |        |
| POCPaceT       |      |      | 650    |      |      |      |      |        |
| POCPCI         |      |      | 660    | 660  | 1480 | 775  | 775  | 775    |
| POCPCIIn       |      |      | 670    | 670  | 1520 | 800  | 800  | 800    |
| POCPCIndSurg   |      |      |        |      | 1490 | 785  | 785  | 785    |
| POCPCIS        |      |      |        | 661  | 1500 | 790  | 790  | 790    |
| POCPCIS        |      |      |        | 663  | 1510 | 795  | 795  |        |
| POCPCIWhen     |      |      |        |      | 1481 | 780  | 780  | 780    |
| POpAortParaLk  |      |      |        |      |      |      | 6631 | 6631   |
| POpEF          |      |      |        |      | 5749 | 4655 | 6655 | 6655   |
| POpEFD         |      |      |        |      | 5748 | 4650 | 6650 | 6650   |
| POpEKG         |      |      |        |      | 5754 | 4680 | 6680 |        |
| POpEnzDrawn    |      |      |        |      | 5750 | 4660 | 6660 |        |
| POpImagStdY    |      |      |        |      | 5755 | 4685 |      |        |
| POpMitParaLk   |      |      |        |      |      |      | 6636 | 6636   |
| POpPkCKMB      |      |      |        |      | 5751 | 4665 | 6665 |        |
| POpPkTrl       |      |      |        |      | 5752 | 4670 | 6670 |        |
| POpPkTrT       |      |      |        |      | 5753 | 4675 | 6675 |        |
| POpTTAR        |      |      |        |      | 5745 | 4630 | 6630 | 6630   |
| POpTTEch       |      |      |        |      | 5744 | 4625 | 6625 | 6625   |
| POpTTMR        |      |      |        |      | 5746 | 4635 | 6635 | 6635   |
| POpTTPu        |      |      |        |      |      | 4645 | 6645 | 6645   |
| POpTTTR        |      |      |        |      | 5747 | 4640 | 6640 | 6640   |
| PostCoreTemp   |      |      |        |      |      |      | 7655 | 7655   |
| PostCreat      |      |      |        | 2605 | 5610 | 4555 | 6555 | 6555   |
| PostDisDthLoc  |      |      |        |      |      |      | 7125 | 7125   |
| PostFibrin     |      |      |        |      |      |      | 7697 | 7697   |
| PostFibrinMeas |      |      |        |      |      |      | 7696 | 7696   |
| PostHCT        |      |      |        |      |      |      | 7695 | 7695   |
| PostHCTMeas    |      |      |        |      |      |      | 7690 | 7690   |
| PostHem        |      |      |        |      |      |      |      | 7687   |
| PostHemMeas    |      |      |        |      |      |      |      | 7686   |
| PostHITAnti    |      |      |        |      |      |      | 7725 |        |
| PostINR        |      |      |        |      |      |      | 7665 | 7665   |
| PostINRMeas    |      |      |        |      |      |      | 7660 | 7660   |
| PostLact       |      |      |        |      |      |      | 7705 | 7705   |
| PostLactMeas   |      |      |        |      |      |      | 7700 | 7700   |
| PostLVEF       |      |      |        |      |      |      | 7635 | 7635   |
| PostLVEFMeas   |      |      |        |      |      |      | 7630 | 7630   |

| ShortName         | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-------------------|------|------|--------|------|------|------|------|--------|
| PostopDel         |      |      |        |      |      |      | 7720 | 7720   |
| PostopHct         |      |      |        |      |      |      | 6557 | 6557   |
| PostopHemoglobin  |      |      |        |      |      |      | 6556 | 6556   |
| PostopIntub       |      |      |        |      |      |      | 6591 | 6591   |
| PostOpPeakGlu     |      |      |        |      |      | 4550 | 6550 | 7708   |
| PostOpPneumo      |      |      |        |      |      | 4865 | 6865 | 6865   |
| PostOthSed        |      |      |        |      |      |      |      | 7716   |
| PostPlt           |      |      |        |      |      |      | 7685 | 7685   |
| PostPltMeas       |      |      |        |      |      |      | 7680 | 7680   |
| PostRVFx          |      |      |        |      |      |      | 7640 | 7640   |
| PostSAM           |      |      |        |      |      |      | 7620 | 7620   |
| PostTempMeas      |      |      |        |      |      |      | 7650 | 7650   |
| PostWBC           |      |      |        |      |      |      | 7675 | 7675   |
| PostWBCMeas       |      |      |        |      |      |      | 7670 | 7670   |
| PrCAB             | 760  | 760  | 600    | 600  | 1215 | 670  | 670  | 670    |
| PrCNum            | 740  | 740  |        |      |      |      |      |        |
| PrCNum            | 750  | 750  |        |      |      |      |      |        |
| PrCVInt           | 710  | 710  | 570    | 570  | 1200 | 665  | 665  | 665    |
| PreAnesthBPDia    |      |      |        |      |      |      | 7415 | 7327   |
| PreAnesthBPMean   |      |      |        |      |      |      | 7420 |        |
| PreAnesthBPSys    |      |      |        |      |      |      | 7410 | 7326   |
| PreAnesthHR       |      |      |        |      |      |      | 7425 | 7328   |
| PreAR             |      |      |        |      |      |      | 7510 |        |
| PreAS             |      |      |        |      |      |      | 7515 |        |
| PreAVA            |      |      |        |      |      |      | 7525 |        |
| PreAVAAssessed    |      |      |        |      |      |      | 7520 |        |
| PreLVEF           |      |      |        |      |      |      | 7490 | 7490   |
| PreLVEFMeas       |      |      |        |      |      |      | 7485 | 7485   |
| PreMR             |      |      |        |      |      |      | 7500 | 7500   |
| PreMS             |      |      |        |      |      |      | 7505 |        |
| PrePFO            |      |      |        |      |      |      | 7535 | 7535   |
| PreRVFx           |      |      |        |      |      |      | 7495 | 7495   |
| PreTR             |      |      |        |      |      |      | 7530 |        |
| PrevMI            |      |      |        | 751  | 1540 | 885  | 885  | 885    |
| PrevProcAVBall    |      |      |        |      | 1285 |      |      |        |
| PrevProcAVRepair  |      |      |        |      | 1230 |      |      |        |
| PrevProcAVReplace |      |      |        |      | 1220 |      |      |        |
| PrevProcMVBall    |      |      |        |      | 1290 |      |      |        |
| PrevProcMVRepair  |      |      |        |      | 1250 |      |      |        |

| ShortName           | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|---------------------|------|------|--------|------|------|------|------|--------|
| PrevProcMVReplace   |      |      |        |      | 1240 |      |      |        |
| PrevProcPercVRepair |      |      |        |      | 1310 |      |      |        |
| PrevProcPV          |      |      |        |      | 1280 |      |      |        |
| PrevProcTCVRep      |      |      |        |      | 1300 |      |      |        |
| PrevProcTVRepair    |      |      |        |      | 1270 |      |      |        |
| PrevProcTVReplace   |      |      |        |      | 1260 |      |      |        |
| PrimAnesName        |      |      |        |      |      |      | 7310 | 7310   |
| PrimAnesNPI         |      |      |        |      |      |      | 7315 | 7315   |
| PriorHF             |      |      |        |      | 1590 | 920  |      |        |
| PrNSBall            | 1280 | 1280 |        |      |      |      |      |        |
| PrNSStnt            | 1230 | 1230 |        |      |      |      |      |        |
| PrOCAICD            |      |      | 630    | 630  | 1460 |      |      |        |
| PrOCPace            |      |      | 640    | 640  | 1470 |      |      |        |
| PropIntra           |      |      |        |      |      |      | 7395 |        |
| PropPost            |      |      |        |      |      |      | 7715 | 7715   |
| PrOthCar            | 940  | 940  | 620    | 620  | 1440 |      |      |        |
| PrOthCongen         |      |      |        | 621  | 1450 |      |      |        |
| ProxLAD             |      |      |        |      | 1941 |      |      |        |
| PrPTCA              | 1160 | 1160 |        |      |      |      |      |        |
| PrPTIntv            | 1190 | 1190 |        |      |      |      |      |        |
| PrValDtKnown        |      |      |        |      | 1410 |      |      |        |
| PrValve             | 770  | 770  | 610    | 610  | 1216 | 675  | 675  | 675    |
| PrValveDate         |      |      |        |      | 1420 |      |      |        |
| PrValveMonths       |      |      |        |      | 1430 |      |      |        |
| PrValveProc1        |      |      |        |      |      | 695  | 695  | 695    |
| PrValveProc2        |      |      |        |      |      | 700  | 700  | 700    |
| PrValveProc3        |      |      |        |      |      | 705  | 705  | 705    |
| PrValveProc4        |      |      |        |      |      | 710  | 710  | 710    |
| PrValveProc5        |      |      |        |      |      | 715  | 715  | 715    |
| PuHemoDatAvail      |      |      |        |      |      | 1845 | 1845 | 1824   |
| PulmEmb             |      |      |        |      | 6170 | 4850 | 6850 | 6850   |
| PulmonicValveRegurg |      |      |        |      |      |      |      | 1812   |
| PulmValveSten       |      |      |        |      |      |      |      | 1823   |
| PVD                 | 680  | 680  | 530    | 530  | 980  | 505  | 505  | 505    |
| RamusSten           |      |      |        |      |      |      |      | 1182   |
| RamusStenCurRev     |      |      |        |      |      |      |      | 1185   |
| RamusStenCurRevLock |      |      |        |      |      |      |      | 1184   |
| RamusStenPercent    |      |      |        |      |      |      |      | 1183   |
| RCADistSten         |      |      |        |      |      |      |      | 1190   |

| ShortName             | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-----------------------|------|------|--------|------|------|------|------|--------|
| RCADistStenCurRev     |      |      |        |      |      |      |      | 1193   |
| RCADistStenCurRevLock |      |      |        |      |      |      |      | 1192   |
| RCADistStenPercent    |      |      |        |      |      |      |      | 1191   |
| RcrdNum               | -50  | -50  | -50    | -50  | -50  |      |      |        |
| Readm30               | 5500 | 5500 | 3220   | 3220 | 6550 |      |      |        |
| ReadmAortIntInd       |      |      |        |      |      |      | 7167 | 7167   |
| ReadmAortIntTy        |      |      |        |      |      |      | 7166 | 7166   |
| Readmit               |      |      |        |      |      | 5140 | 7140 | 7140   |
| ReadmitDt             |      |      |        |      |      | 5145 | 7145 | 7145   |
| ReadmPro              |      |      | 3240   | 3240 | 6570 | 5165 | 7165 | 7165   |
| ReadmRsn              | 5510 | 5510 | 3230   | 3230 | 6560 | 5160 | 7160 | 7160   |
| RecLarynNrvInj        |      |      |        |      | 6341 | 4940 | 6833 | 6833   |
| RecordID              | 430  | 353  | 369    | 299  | 649  |      |      |        |
| ReIntub               |      | 4678 | 2680   | 2680 | 5680 | 4590 |      |        |
| RenFail               | 530  | 530  | 440    |      |      |      |      |        |
| Resusc                | 1440 | 1440 | 830    | 830  | 1630 | 935  | 935  | 935    |
| RetCPBEch             |      |      |        |      |      |      | 7625 | 7625   |
| RetCPBRsn             |      |      |        |      |      |      |      | 7626   |
| RetCPBRsnVentFailTy   |      |      |        |      |      |      |      | 7627   |
| RetrAutolPrim         |      |      |        |      |      |      | 7580 | 7580   |
| RFHemoglobin          |      |      |        |      |      | 570  | 570  | 570    |
| RiskIschemia          |      |      |        |      |      | 1535 |      |        |
| RVEDD                 |      |      |        |      |      | 1835 | 1835 |        |
| RVEDDKnown            |      |      |        |      |      | 1830 | 1830 |        |
| SixMWalkDist          |      |      |        |      |      |      | 662  |        |
| SixMWalkDone          |      |      |        |      |      |      | 661  |        |
| SlpApn                |      |      |        |      | 950  | 460  | 460  | 460    |
| SmokCoun              |      |      | 3210   | 3210 | 6540 | 5055 | 7011 |        |
| SmokCurr              | 450  | 450  | 380    |      |      |      |      |        |
| Smoker                | 440  | 440  | 370    |      |      |      |      |        |
| Sodium                |      |      |        |      |      |      |      | 600    |
| StenLeftMain          |      |      |        |      |      |      |      | 1174   |
| StenLeftMainLctn      |      |      |        |      |      |      |      | 1177   |
| StenLeftMainLctnKn    |      |      |        |      |      |      |      | 1176   |
| StenSource            |      |      |        |      |      | 1165 | 1165 |        |
| StentPrsnt            |      |      |        |      |      | 1185 | 1185 |        |
| StntIntv              |      | 1235 |        |      |      |      |      |        |
| StntStenAM            |      |      |        |      |      | 1465 | 1465 |        |
| StntStenCircflx       |      |      |        |      |      | 1345 | 1345 |        |

| ShortName           | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|---------------------|------|------|--------|------|------|------|------|--------|
| StntStenDiag1       |      |      |        |      |      | 1285 | 1285 |        |
| StntStenDiag2       |      |      |        |      |      | 1305 | 1305 |        |
| StntStenDiag3       |      |      |        |      |      | 1325 | 1325 |        |
| StntStenDistLAD     |      |      |        |      |      | 1265 | 1265 |        |
| StntStenLMain       |      |      |        |      |      | 1205 | 1205 |        |
| StntStenMidLAD      |      |      |        |      |      | 1245 | 1245 |        |
| StntStenOM1         |      |      |        |      |      | 1365 | 1365 |        |
| StntStenOM2         |      |      |        |      |      | 1385 | 1385 |        |
| StntStenOM3         |      |      |        |      |      | 1405 | 1405 |        |
| StntStenPDA         |      |      |        |      |      | 1485 | 1485 |        |
| StntStenPLB         |      |      |        |      |      | 1505 | 1505 |        |
| StntStenProxLAD     |      |      |        |      |      | 1225 | 1225 |        |
| StntStenRamus       |      |      |        |      |      | 1425 | 1425 |        |
| StntStenRCA         |      |      |        |      |      | 1445 | 1445 |        |
| StressTst           |      |      |        |      |      | 1525 | 1525 |        |
| StressTstRes        |      |      |        |      |      | 1530 |      |        |
| StrsTstRes          |      |      |        |      |      |      | 1531 |        |
| SubsUseScrnCounPerf |      |      |        |      |      |      |      | 7016   |
| SurSInf             |      |      |        |      | 5841 | 4690 | 6690 | 6690   |
| Syncope             |      |      |        |      | 1001 | 515  | 515  | 515    |
| SyntaxScr           |      |      |        |      |      | 1520 | 1520 |        |
| SyntaxScrKnown      |      |      |        |      |      | 1515 | 1515 |        |
| ThAoDisease         |      |      |        |      |      | 510  | 510  |        |
| ThrIntvl            | 1260 | 1260 |        |      |      |      |      |        |
| Thrmbls             | 1240 | 1240 |        |      |      |      |      |        |
| TobaccoUse          |      |      |        |      |      | 400  | 400  | 400    |
| Tot25AlbumPerf      |      |      |        |      |      |      |      | 7596   |
| TotAlbumAnesth      |      |      |        |      |      |      | 7460 |        |
| TotAlbumin          |      |      |        |      | 730  | 590  | 590  | 585    |
| TotAlbumPerf        |      |      |        |      |      |      | 7595 | 7595   |
| TotalPOInitVentHr   |      |      |        |      |      |      |      | 6587   |
| TotBlrbn            |      |      |        |      | 720  | 595  | 595  | 610    |
| TotColloidAnesth    |      |      |        |      |      |      | 7455 |        |
| TotColloidPerf      |      |      |        |      |      |      | 7590 |        |
| TotCrystAnesth      |      |      |        |      |      |      | 7450 | 7450   |
| TotCrystPerf        |      |      |        |      |      |      | 7585 | 7585   |
| TotHep              |      |      |        |      |      |      | 7340 | 7340   |
| TotInsulIntra       |      |      |        |      |      |      | 7405 | 7474   |
| TotProt             |      |      |        |      |      |      | 7350 | 7614   |

| ShortName          | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|--------------------|------|------|--------|------|------|------|------|--------|
| TransfAlg          |      |      |        |      |      |      | 7330 | 7330   |
| TricuspidValveSten |      |      |        |      |      |      |      | 1777   |
| TricuspidVRegurg   |      |      |        |      |      |      |      | 1774   |
| UnrespStat         |      |      |        |      | 1000 | 520  | 520  | 512    |
| VasodillIntraop    |      |      |        |      |      |      | 7475 | 7463   |
| VasopWeanCPB       |      |      |        |      |      |      | 7610 | 7610   |
| VD AoEt            |      |      |        |      | 2090 |      |      |        |
| VD AoEt1           |      |      |        |      |      | 1625 |      |        |
| VD AoEt2           |      |      |        |      |      | 1630 |      |        |
| VD AoEt3           |      |      |        |      |      | 1635 |      |        |
| VD AoEt4           |      |      |        |      |      | 1640 |      |        |
| VD AoEt5           |      |      |        |      |      | 1645 |      |        |
| VD AoPrimEt        |      |      |        |      |      |      | 1646 | 1646   |
| VD Aort            |      |      |        |      | 2040 | 1595 | 1595 | 1617   |
| VD AortTumor       |      |      |        |      | 2150 |      |      |        |
| VD AoSievers       |      |      |        |      |      |      | 1647 |        |
| VD AoVA            |      |      |        |      | 2153 | 1610 | 1610 | 1610   |
| VD AEccJet         |      |      |        |      |      |      | 1591 |        |
| VD CongenT         |      |      |        |      | 2120 |      |      |        |
| VD EndAB           |      |      |        |      | 2110 |      |      |        |
| VD GradA           |      | 2015 | 1130   | 1130 | 2154 | 1615 | 1615 | 1615   |
| VD GradM           |      |      |        |      | 2260 | 1705 | 1705 | 1705   |
| VD GradP           |      |      |        |      |      | 1850 | 1850 | 1825   |
| VD InsufA          | 2050 | 2050 | 1170   | 1170 | 2155 | 1590 | 1590 | 1590   |
| VD InsufM          | 2060 | 2060 | 1180   | 1180 | 2270 | 1680 | 1680 | 1680   |
| VD InsufP          | 2080 | 2080 | 1200   | 1200 | 2340 | 1820 | 1820 | 1820   |
| VD InsufT          | 2070 | 2070 | 1190   | 1190 | 2320 | 1775 | 1775 | 1775   |
| VD LVOutOb         |      |      |        |      | 2140 |      |      |        |
| VD MiEt1           |      |      |        |      |      | 1720 |      |        |
| VD MiEt2           |      |      |        |      |      | 1725 |      |        |
| VD MiEt3           |      |      |        |      |      | 1730 |      |        |
| VD MiLes1          |      |      |        |      |      | 1735 |      |        |
| VD MiLes2          |      |      |        |      |      | 1740 |      |        |
| VD MiLes3          |      |      |        |      |      | 1745 |      |        |
| VD MiPrimEt        |      |      |        |      |      |      | 1731 |        |
| VD MiPrimLes       |      |      |        |      |      |      | 1746 |        |
| VD Mit             |      |      |        |      | 2160 | 1685 | 1685 | 1710   |
| VD MitAnDegDis     |      |      |        |      | 2190 |      |      |        |
| VD MitDegLoc       |      |      |        |      | 2180 |      |      |        |

| ShortName         | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|-------------------|------|------|--------|------|------|------|------|--------|
| VDMitDis          |      |      |        |      |      |      |      | 1711   |
| VDMitDisClsIIATy  |      |      |        |      |      |      |      | 1715   |
| VDMitDisClsIIIBTy |      |      |        |      |      |      |      | 1716   |
| VDMitDisClsIIMyo  |      |      |        |      |      |      |      | 1714   |
| VDMitDisClsIITy   |      |      |        |      |      |      |      | 1713   |
| VDMitDisClsITy    |      |      |        |      |      |      |      | 1712   |
| VDMitDisMixedTy   |      |      |        |      |      |      |      | 1717   |
| VDMitET           |      |      |        |      | 2170 |      |      |        |
| VDMitFC           |      |      |        |      | 2230 | 1715 |      |        |
| VDMitIsTy         |      |      |        |      | 2210 |      |      |        |
| VDMitPMR          |      |      |        |      | 2220 |      |      |        |
| VDMitTumor        |      |      |        |      | 2221 |      |      |        |
| VDMVA             |      |      |        |      | 2250 | 1700 | 1700 | 1700   |
| VDMVEccJet        |      |      |        |      |      |      | 1681 |        |
| VDPrimAo          |      |      |        |      | 2130 |      |      |        |
| VDPuEt            |      |      |        |      |      | 1855 | 1855 | 1855   |
| VDPulm            |      |      |        |      | 2321 | 1825 | 1825 | 1828   |
| VDStenA           | 2010 | 2010 | 1120   | 1120 | 2152 | 1600 | 1600 | 1600   |
| VDStenM           | 2020 | 2020 | 1140   | 1140 | 2240 | 1690 | 1690 | 1690   |
| VDStenP           | 2040 | 2040 | 1160   | 1160 | 2330 | 1840 | 1840 | 1822   |
| VDStenT           | 2030 | 2030 | 1150   | 1150 | 2300 | 1785 | 1785 | 1776   |
| VDTr              |      |      |        |      | 2280 | 1780 | 1780 | 1778   |
| VDTrAnnMeas       |      |      |        |      |      | 1790 | 1777 | 1779   |
| VDTrAnnSize       |      |      |        |      |      | 1795 | 1778 | 1780   |
| VDTrEt            |      |      |        |      | 2290 |      |      |        |
| VDTrEt1           |      |      |        |      |      | 1800 |      |        |
| VDTrEt2           |      |      |        |      |      | 1805 |      |        |
| VDTrEt3           |      |      |        |      |      | 1810 |      |        |
| VDTrPrimEt        |      |      |        |      |      |      | 1811 | 1811   |
| VDVMax            |      |      |        |      |      |      | 1616 | 1616   |
| VentHrs           | 4680 | 4680 | 2700   |      |      |      |      |        |
| VentHrsA          |      | 4679 | 2690   | 2690 | 5690 | 4595 | 6595 | 6595   |
| VentHrsI          |      | 4676 | 2670   |      |      |      |      |        |
| VentHrsTot        |      |      |        |      |      | 4600 | 6600 | 6600   |
| VolAgentDes       |      |      |        |      |      |      | 7368 |        |
| VolAgentIso       |      |      |        |      |      |      | 7366 |        |
| VolAgentOth       |      |      |        |      |      |      | 7369 |        |
| VolAgentSevo      |      |      |        |      |      |      | 7367 |        |
| VolAgentTimDur    |      |      |        |      |      |      | 7375 |        |

| ShortName           | 2.35 | 2.41 | 2.52.1 | 2.61 | 2.73 | 2.81 | 2.9  | 4.20.2 |
|---------------------|------|------|--------|------|------|------|------|--------|
| VolAgentTiming      |      |      |        |      |      |      |      | 7377   |
| VolAgentTimMaint    |      |      |        |      |      |      | 7385 |        |
| VolAgentTimPost     |      |      |        |      |      |      | 7380 |        |
| VolAgentTimPre      |      |      |        |      |      |      | 7370 |        |
| VolAgentUsed        |      |      |        |      |      |      | 7365 | 7365   |
| VolatileAgentUsedTy |      |      |        |      |      |      |      | 7370   |
| WBC                 |      |      |        | 392  | 690  | 565  | 565  | 565    |
| WndIntOpen          |      |      |        |      | 5960 |      |      |        |
| WndIntWVac          |      |      |        |      | 5970 |      |      |        |
| WoundInter          |      |      |        |      |      | 4725 | 6725 |        |
| WoundIntMuscle      |      |      |        |      |      | 4740 | 6740 |        |
| WoundIntOmental     |      |      |        |      |      | 4745 | 6745 |        |
| WoundIntOpen        |      |      |        |      |      | 4730 | 6730 |        |
| WoundIntVac         |      |      |        |      |      | 4735 | 6735 |        |