

Medtronic

# 2022 Coding resource

Selected cardiothoracic procedures

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## To healthcare providers

This Coding Resource includes the MS-DRGs and commonly billed procedure codes for selected cardiac surgery procedures. This is not a comprehensive list of all available codes, and it is possible that there is a more appropriate code for any given procedure.

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### A few notes about coding systems and Medicare payment methodologies

#### ICD-10

ICD-10-CM for diagnosis coding and ICD-10 PCS for inpatient procedure coding became effective October 01, 2015. The new code set replaces the previous ICD-9 coding system. This change does not impact CPT coding for physician and hospital outpatient services. While physician and outpatient procedures will continue to use CPT coding to report procedures, diagnosis coding will be reported using ICD-10 CM.

For more information, please visit the Medicare ICD-10 website at: [cms.gov/Medicare/Coding/ICD10/index.html](https://cms.gov/Medicare/Coding/ICD10/index.html)

#### Hospital inpatient ICD-10 procedure coding and reimbursement

Hospitals assign ICD-10 codes for both diagnoses and procedures for inpatient admissions. For Medicare, inpatient hospital reimbursement is under the Medicare Severity Diagnosis Related Groups (MS-DRG) system. For each admission, the ICD-10 diagnosis and procedure codes are grouped into one of over 750 MS-DRGs. Regardless of the number of codes, only one MS-DRG is assigned to the admission. Each MS-DRG has a unique relative weight, which is then converted into the payment amount. Medicare has used the DRG system for hospital inpatient reimbursement since 1983.

#### Physician CPT® coding and reimbursement

Physicians use ICD-10 CM codes for diagnoses and CPT codes for procedures, regardless of whether the setting is inpatient or outpatient. The ICD-10 CM diagnosis codes are used for claims adjudication. However, for determining Medicare payment, only the CPT procedure codes are used. For Medicare, physician reimbursement is under the RBRVS system. Each CPT code is assigned a unique relative value unit, which is then converted into the payment amount. Medicare has used RBRVS for physician reimbursement since 1992.

### C codes

C codes do not apply to inpatient surgical procedures such as CABG or valve replacement procedures. C codes are used in conjunction with the Medicare prospective payment system for outpatient procedures (APCs).

### Medicare severity diagnosis related groups (MS-DRGs)

#### Conceptual framework

Medicare Severity Diagnosis Related Groups (MS-DRGs) are a significant modification to the prior DRG system, but not a radical one. They retain many of the refinements suggested by users over the year while updating other features. The purpose of the MS-DRGs is to "better recognize severity of illness and resource use based on case complexity." The MS-DRG system was effective on October 1, 2007.

#### Core changes

The number of DRGs has increased from 538 to over 750 MS-DRGs. There is an addition of severity classification, as illustrated below:

- W MCC (with major complication and comorbidity) over 3,000 listed in the Fed. Register
- W CC (with complication and comorbidity) over 14,000 listed in the Fed. Register
- WO CC/MCC (without complication and comorbidity/major complication and comorbidity)

#### Severity classifications

As designed, severity and weight increase with each tier. Which severity is assigned depends on each case's secondary diagnosis codes. Regardless of how many secondary diagnoses are present, only one MCC or CC code is needed for the entire case to be assigned to a particular DRG. CMS maintains the list of all ICD-10 CM Codes designated as MCC/CC on their website.

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**Medtronic may not carry products used in all procedures.**

## FY 2022 final Medicare hospital inpatient MS-DRG base rates

(Effective 10/1/2021 to 9/30/2022)

| MS-DRG  | Description  | Relative Weight <sup>1</sup> | FY2022 Medicare National Unadjusted Amount <sup>1</sup> |
|---|--|------------------------------|---|
| <b>SURGICAL VALVES</b>                            |  |                              |   |
| 216   | Cardiac valve and other major cardiothoracic procedure with cardiac catheterization with MCC                           | 10.0393                      | \$66,202  |
| 217   | Cardiac valve and other major cardiothoracic procedure with cardiac catheterization with CC                            | 6.4835                       | \$42,754  |
| 218   | Cardiac valve and other major cardiothoracic procedure with cardiac catheterization without CC/MCC                     | 6.1093                       | \$40,287  |
| 219   | Cardiac valve and other major cardiothoracic procedure without cardiac catheterization with MCC                        | 8.0576                       | \$53,134  |
| 220   | Cardiac valve and other major cardiothoracic procedure without cardiac catheterization with CC                         | 5.4053                       | \$35,644  |
| 221   | Cardiac valve and other major cardiothoracic procedure without cardiac catheterization without CC/MCC                  | 4.5799                       | \$30,201  |
| <b>TRANSCATHETER VALVES</b>                       |  |                              |   |
| 266   | Endovascular Cardiac Valve Replacement and Supplement Procedures with MCC  | 7.0479                       | \$46,476  |
| 267   | Endovascular Cardiac Valve Replacement and Supplement Procedures without MCC   | 5.5980                       | \$36,915  |
| <b>CORONARY BYPASS</b>                            |  |                              |   |
| 231   | Coronary bypass with PTCA with MCC   | 8.7159                       | \$57,475  |
| 232   | Coronary bypass with PTCA without MCC  | 5.9538                       | \$39,261  |
| 233   | Coronary bypass with cardiac catheterization with MCC  | 7.9223                       | \$52,242  |
| 234   | Coronary bypass with cardiac catheterization without MCC   | 5.3360                       | \$35,187  |
| 235   | Coronary bypass without cardiac catheterization with MCC   | 6.1041                       | \$40,252  |
| 236   | Coronary bypass without cardiac catheterization without MCC  | 4.0970                       | \$27,017  |
| <b>OTHER CARDIOTHORACIC PROCEDURES</b>            |  |                              |   |
| 228   | Other cardiothoracic procedure with MCC  | 5.3303                       | \$35,150  |
| 229   | Other cardiothoracic procedure with CC   | 3.4412                       | \$22,692  |
| <b>EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO)</b> |  |                              |   |
| 003   | ECMO or tracheostomy with MV > 96 hours or principal diagnosis except face, mouth, and neck with major O.R. procedures | 19.1055                      | \$125,988   |

# Hospital ICD-10 PCS potential codes

**Note:** The ICD-10 PCS codes shown are those that reflect the typical procedure, using known Medtronic devices where appropriate. Theoretical possibilities are not shown, e.g., approaches that are not common, device types that are not currently on the market. The general equivalence between ICD-9 procedures codes and ICD-10 PCS codes shown here is for illustrative purposes. Please refer to clinical documentation for appropriate ICD-10 PCS code selection.

| Valve procedures  |                           |  |
|---|---------------------------|--|
| Procedure Code Description                                      | ICD-10 PCS Procedure Code | ICD-10 PCS Code Description  |
| <b>ENDOVASCULAR VALVE REPLACEMENT PROCEDURES</b>                |                           |  |
| Endovascular replacement of aortic valve                        | 02RF37Z                   | Replacement of Aortic Valve with Autologous Tissue Substitute, Percutaneous Approach             |
|   | 02RF38Z                   | Replacement of Aortic Valve with Zooplasic Tissue, Percutaneous Approach                         |
|   | 02RF3JZ                   | Replacement of Aortic Valve with Synthetic Substitute, Percutaneous Approach                     |
|   | 02RF3KZ                   | Replacement of Aortic Valve with Nonautologous Tissue Substitute, Percutaneous Approach          |
| Endovascular replacement of pulmonary valve                     | 02RH37Z                   | Replacement of Pulmonary Valve with Autologous Tissue Substitute, Percutaneous Approach          |
|   | 02RH3JZ                   | Replacement of Pulmonary Valve with Synthetic Substitute, Percutaneous Approach                  |
|   | 02RH3KZ                   | Replacement of Pulmonary Valve with Nonautologous Tissue Substitute, Percutaneous Approach       |
|   | 02RH38L                   | Replacement of Pulmonary Valve with Zooplasic Tissue, In Existing Conduit, Percutaneous Approach |
|   | 02RH38M                   | Replacement of Pulmonary Valve with Zooplasic Tissue, Native Site, Percutaneous Approach         |
|   | 02RH38Z                   | Replacement of Pulmonary Valve with Zooplasic Tissue, Percutaneous Approach                      |
| <b>OPEN HEART VALVULOPLASTY WITHOUT REPLACEMENT</b>             |                           |  |
| Open heart valvuloplasty of aortic valve without replacement    | 027F0ZZ                   | Dilation of Aortic Valve, Open Approach  |
|   | 02NF0ZZ                   | Release Aortic Valve, Open Approach  |
|   | 02QF0ZZ                   | Repair Aortic Valve, Open Approach   |
| Open heart valvuloplasty of mitral valve without replacement    | 027G0ZZ                   | Dilation of Mitral Valve, Open Approach  |
|   | 02NG0ZZ                   | Release Mitral Valve, Open Approach  |
|   | 02QG0ZZ                   | Repair Mitral Valve, Open Approach   |
| Open heart valvuloplasty of pulmonary valve without replacement | 027H0ZZ                   | Dilation of Pulmonary Valve, Open Approach   |
|   | 02NH0ZZ                   | Release Pulmonary Valve, Open Approach   |
|   | 02QH0ZZ                   | Repair Pulmonary Valve, Open Approach  |

## Valve procedures, cont'd.

| Procedure Code Description                                      | ICD-10 PCS Procedure Code | ICD-10 PCS Code Description  |
|---|---------------------------|--|
| <b>OPEN VALVE REPLACEMENT PROCEDURES</b>                        |                           |  |
| Open heart valvuloplasty of tricuspid valve without replacement | 027J0ZZ                   | Dilation of Tricuspid Valve, Open Approach   |
|   | 02NJ0ZZ                   | Release Tricuspid Valve, Open Approach   |
|   | 02QJ0ZZ                   | Repair Tricuspid Valve, Open Approach  |
| Open and other replacement of aortic valve with tissue graft    | 02RF07Z                   | Replacement of Aortic Valve with Autologous Tissue Substitute, Open Approach       |
|   | 02RF08Z                   | Replacement of Aortic Valve with Zooplasic Tissue, Open Approach                   |
|   | 02RF0KZ                   | Replacement of Aortic Valve with Nonautologous Tissue Substitute, Open Approach    |
| Open and other replacement of aortic valve                      | 02RF0JZ                   | Replacement of Aortic Valve with Synthetic Substitute, Open Approach               |
| Open and other replacement of mitral valve with tissue graft    | 02RG07Z                   | Replacement of Mitral Valve with Autologous Tissue Substitute, Open Approach       |
|   | 02RG08Z                   | Replacement of Mitral Valve with Zooplasic Tissue, Open Approach                   |
|   | 02RG0KZ                   | Replacement of Mitral Valve with Nonautologous Tissue Substitute, Open Approach    |
| Open and other replacement of mitral valve                      | 02RG0JZ                   | Replacement of Mitral Valve with Synthetic Substitute, Open Approach               |
| Open and other replacement of pulmonary valve with tissue graft | 02RH07Z                   | Replacement of Pulmonary Valve with Autologous Tissue Substitute, Open Approach    |
|   | 02RH08Z                   | Replacement of Pulmonary Valve with Zooplasic Tissue, Open Approach                |
|   | 02RH0KZ                   | Replacement of Pulmonary Valve with Nonautologous Tissue Substitute, Open Approach |
| Open and other replacement of pulmonary valve                   | 02RH0JZ                   | Replacement of Pulmonary Valve with Synthetic Substitute, Open Approach            |
| Open and other replacement of tricuspid valve with tissue graft | 02RJ07Z                   | Replacement of Tricuspid Valve with Autologous Tissue Substitute, Open Approach    |
|   | 02RJ08Z                   | Replacement of Tricuspid Valve with Zooplasic Tissue, Open Approach                |
|   | 02RJ0KZ                   | Replacement of Tricuspid Valve with Nonautologous Tissue Substitute, Open Approach |
| Open and other replacement of tricuspid valve                   | 02RJ0JZ                   | Replacement of Tricuspid Valve with Synthetic Substitute, Open Approach            |
| <b>OTHER VALVE PROCEDURES</b>                                   |                           |  |
| Annuloplasty  | 02UF0JZ                   | Supplement Aortic Valve with Synthetic Substitute, Open Approach                   |
|   | 02UG0JZ                   | Supplement Mitral Valve with Synthetic Substitute, Open Approach                   |
|   | 02UH0JZ                   | Supplement Pulmonary Valve with Synthetic Substitute, Open Approach                |
|   | 02UJ0JZ                   | Supplement Tricuspid Valve with Synthetic Substitute, Open Approach                |
| Infundibulectomy  | 02BK0ZZ                   | Excision of Right Ventricle, Open Approach   |

## Valve procedures, cont'd.

| Procedure Code Description                                      | ICD-10 PCS Procedure Code | ICD-10 PCS Code Description  |
|---|---------------------------|--|
| <b>OPEN VALVE REPLACEMENT PROCEDURES</b>                        |                           |  |
| Open and other replacement of aortic valve with tissue graft    | 02RF07Z                   | Replacement of Aortic Valve with Autologous Tissue Substitute, Open Approach       |
|   | 02RF08Z                   | Replacement of Aortic Valve with Zooplasic Tissue, Open Approach                   |
|   | 02RF0KZ                   | Replacement of Aortic Valve with Nonautologous Tissue Substitute, Open Approach    |
| Open and other replacement of aortic valve                      | 02RF0JZ                   | Replacement of Aortic Valve with Synthetic Substitute, Open Approach               |
| Open and other replacement of mitral valve with tissue graft    | 02RG07Z                   | Replacement of Mitral Valve with Autologous Tissue Substitute, Open Approach       |
|   | 02RG08Z                   | Replacement of Mitral Valve with Zooplasic Tissue, Open Approach                   |
|   | 02RG0KZ                   | Replacement of Mitral Valve with Nonautologous Tissue Substitute, Open Approach    |
| Open and other replacement of mitral valve                      | 02RG0JZ                   | Replacement of Mitral Valve with Synthetic Substitute, Open Approach               |
| Open and other replacement of pulmonary valve with tissue graft | 02RH07Z                   | Replacement of Pulmonary Valve with Autologous Tissue Substitute, Open Approach    |
|   | 02RH08Z                   | Replacement of Pulmonary Valve with Zooplasic Tissue, Open Approach                |
|   | 02RH0KZ                   | Replacement of Pulmonary Valve with Nonautologous Tissue Substitute, Open Approach |
| Open and other replacement of pulmonary valve                   | 02RH0JZ                   | Replacement of Pulmonary Valve with Synthetic Substitute, Open Approach            |
| Open and other replacement of tricuspid valve with tissue graft | 02RJ07Z                   | Replacement of Tricuspid Valve with Autologous Tissue Substitute, Open Approach    |
|   | 02RJ08Z                   | Replacement of Tricuspid Valve with Zooplasic Tissue, Open Approach                |
|   | 02RJ0KZ                   | Replacement of Tricuspid Valve with Nonautologous Tissue Substitute, Open Approach |
| Open and other replacement of tricuspid valve                   | 02RJ0JZ                   | Replacement of Tricuspid Valve with Synthetic Substitute, Open Approach            |
| <b>OTHER VALVE PROCEDURES</b>                                   |                           |  |
| Annuloplasty  | 02UF0JZ                   | Supplement Aortic Valve with Synthetic Substitute, Open Approach                   |
|   | 02UG0JZ                   | Supplement Mitral Valve with Synthetic Substitute, Open Approach                   |
|   | 02UH0JZ                   | Supplement Pulmonary Valve with Synthetic Substitute, Open Approach                |
|   | 02UJ0JZ                   | Supplement Tricuspid Valve with Synthetic Substitute, Open Approach                |
| Infundibulectomy  | 02BK0ZZ                   | Excision of Right Ventricle, Open Approach   |
| Percutaneous balloon valvuloplasty                              | 027F3ZZ                   | Dilation of Aortic Valve, Percutaneous Approach                                    |
|   | 027G3ZZ                   | Dilation of Mitral Valve, Percutaneous Approach                                    |
|   | 027H3ZZ                   | Dilation of Pulmonary Valve, Percutaneous Approach                                 |
|   | 027J3ZZ                   | Dilation of Tricuspid Valve, Percutaneous Approach                                 |
| Percutaneous mitral valve repair with implant                   | 02UG3JZ                   | Supplement Mitral Valve with Synthetic Substitute, Percutaneous Approach           |

## Perfusion

| Procedure Code Description | ICD-10 PCS Procedure Code | ICD-10 PCS Code Description               |
|----------------------------|---------------------------|---|
| Cardiopulmonary Bypass     | 5A1221Z                   | Performance of Cardiac Output, Continuous |

## Continious extracorporeal membrane oxygenation (ECMO)

| CPT Code                | Procedure Description  | ICD-10 PCS Code |
|-------------------------|--|-----------------|
| Central ECMO            | Extracorporeal Oxygenation, Membrane, Central                  | 5A1522F         |
| Veno-arterial (VA-ECMO) | Extracorporeal Oxygenation, Membrane, Peripheral Veno-arterial | 5A1522G         |
| Veno-venous (VV-ECMO)   | Extracorporeal Oxygenation, Membrane, Peripheral Veno-venous   | 5A1522H         |

## Intraoperative extracorporeal membrane oxygenation (ECMO)

| CPT Code                     | Procedure Description  | ICD-10 PCS Code |
|------------------------------|--|-----------------|
| Intraoperative ECMO, Central | Extracorporeal Oxygenation, Membrane, Central, Intraoperative                  | 5A15A2F         |
| Intraoperative VA-ECMO       | Extracorporeal Oxygenation, Membrane, Peripheral Veno-arterial, Intraoperative | 5A15A2G         |
| Intraoperative VV-ECMO       | Extracorporeal Oxygenation, Membrane, Peripheral Veno-venous, Intraoperative   | 5A15A2H         |

## ICD-10 PCS codes for CABG procedures

| ICD-10 PCS Procedure Code | ICD-10 PCS Code Description  |
|---------------------------|--|
| 0210093                   | Bypass Coronary Artery, One Site from Coronary Artery with Autologous Venous Tissue, Open Approach                           |
| 0210098                   | Bypass Coronary Artery, One Site from Right Internal Mammary with Autologous Venous Tissue, Open Approach                    |
| 0210099                   | Bypass Coronary Artery, One Site from Left Internal Mammary with Autologous Venous Tissue, Open Approach                     |
| 021009C                   | Bypass Coronary Artery, One Site from Thoracic Artery with Autologous Venous Tissue, Open Approach                           |
| 021009F                   | Bypass Coronary Artery, One Site from Abdominal Artery with Autologous Venous Tissue, Open Approach                          |
| 021009W                   | Bypass Coronary Artery, One Site from Aorta with Autologous Venous Tissue, Open Approach                                     |
| 02100A3                   | Bypass Coronary Artery, One Site from Coronary Artery with Autologous Arterial Tissue, Open Approach                         |
| 02100A8                   | Bypass Coronary Artery, One Site from Right Internal Mammary with Autologous Arterial Tissue, Open Approach                  |
| 02100A9                   | Bypass Coronary Artery, One Site from Left Internal Mammary with Autologous Arterial Tissue, Open Approach                   |
| 02100AC                   | Bypass Coronary Artery, One Site from Thoracic Artery with Autologous Arterial Tissue, Open Approach                         |
| 02100AF                   | Bypass Coronary Artery, One Site from Abdominal Artery with Autologous Arterial Tissue, Open Approach                        |
| 02100AW                   | Bypass Coronary Artery, One Site from Aorta with Autologous Arterial Tissue, Open Approach                                   |
| 02100J3                   | Bypass Coronary Artery, One Site from Coronary Artery with Synthetic Substitute, Open Approach                               |
| 02100J8                   | Bypass Coronary Artery, One Site from Right Internal Mammary with Synthetic Substitute, Open Approach                        |
| 02100J9                   | Bypass Coronary Artery, One Site from Left Internal Mammary with Synthetic Substitute, Open Approach                         |
| 02100JC                   | Bypass Coronary Artery, One Site from Thoracic Artery with Synthetic Substitute, Open Approach                               |
| 02100JF                   | Bypass Coronary Artery, One Site from Abdominal Artery with Synthetic Substitute, Open Approach                              |
| 02100JW                   | Bypass Coronary Artery, One Site from Aorta with Synthetic Substitute, Open Approach   |
| 02100K3                   | Bypass Coronary Artery, One Site from Coronary Artery with Nonautologous Tissue Substitute, Open Approach                    |
| 02100K8                   | Bypass Coronary Artery, One Site from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach             |
| 02100K9                   | Bypass Coronary Artery, One Site from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach              |
| 02100KC                   | Bypass Coronary Artery, One Site from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach                    |
| 02100KF                   | Bypass Coronary Artery, One Site from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach                   |
| 02100KW                   | Bypass Coronary Artery, One Site from Aorta with Nonautologous Tissue Substitute, Open Approach                              |
| 02100Z3                   | Bypass Coronary Artery, One Site from Coronary Artery, Open Approach   |
| 02100Z8                   | Bypass Coronary Artery, One Site from Right Internal Mammary, Open Approach  |
| 02100Z9                   | Bypass Coronary Artery, One Site from Left Internal Mammary, Open Approach   |
| 02100ZC                   | Bypass Coronary Artery, One Site from Thoracic Artery, Open Approach   |
| 02100ZF                   | Bypass Coronary Artery, One Site from Abdominal Artery, Open Approach  |
| 0210493                   | Bypass Coronary Artery, One Site from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach        |
| 0210498                   | Bypass Coronary Artery, One Site from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach |
| 0210499                   | Bypass Coronary Artery, One Site from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach  |

## ICD-10 PCS codes for CABG procedures, cont'd

| ICD-10 PCS Procedure Code | ICD-10 PCS Code Description   |
|---------------------------|---|
| 021049C                   | Bypass Coronary Artery, One Site from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach               |
| 021049F                   | Bypass Coronary Artery, One Site from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach              |
| 021049W                   | Bypass Coronary Artery, One Site from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach                         |
| 02104A3                   | Bypass Coronary Artery, One Site from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach             |
| 02104A8                   | Bypass Coronary Artery, One Site from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach      |
| 02104A9                   | Bypass Coronary Artery, One Site from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach       |
| 02104AC                   | Bypass Coronary Artery, One Site from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach             |
| 02104AF                   | Bypass Coronary Artery, One Site from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach            |
| 02104AW                   | Bypass Coronary Artery, One Site from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach                       |
| 02104J3                   | Bypass Coronary Artery, One Site from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach                   |
| 02104J8                   | Bypass Coronary Artery, One Site from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach            |
| 02104J9                   | Bypass Coronary Artery, One Site from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach             |
| 02104JC                   | Bypass Coronary Artery, One Site from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach                   |
| 02104JF                   | Bypass Coronary Artery, One Site from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach                  |
| 02104JW                   | Bypass Coronary Artery, One Site from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach                             |
| 02104K3                   | Bypass Coronary Artery, One Site to Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach          |
| 02104K8                   | Bypass Coronary Artery, One Site from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach |
| 02104K9                   | Bypass Coronary Artery, One Site from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach  |
| 02104KC                   | Bypass Coronary Artery, One Site from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach        |
| 02104KF                   | Bypass Coronary Artery, One Site from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach       |
| 02104KW                   | Bypass Coronary Artery, One Site from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach                  |
| 02104Z3                   | Bypass Coronary Artery, One Site from Coronary Artery, Percutaneous Endoscopic Approach   |
| 02104Z8                   | Bypass Coronary Artery, One Site from Right Internal Mammary, Percutaneous Endoscopic Approach                                      |
| 02104Z9                   | Bypass Coronary Artery, One Site from Left Internal Mammary, Percutaneous Endoscopic Approach                                       |
| 02104ZC                   | Bypass Coronary Artery, One Site from Thoracic Artery, Percutaneous Endoscopic Approach   |
| 02104ZF                   | Bypass Coronary Artery, One Site from Abdominal Artery, Percutaneous Endoscopic Approach  |
| 0211093                   | Bypass Coronary Artery, Two Sites from Coronary Artery with Autologous Venous Tissue, Open Approach                                 |
| 0211098                   | Bypass Coronary Artery, Two Sites from Right Internal Mammary with Autologous Venous Tissue, Open Approach                          |
| 0211099                   | Bypass Coronary Artery, Two Sites from Left Internal Mammary with Autologous Venous Tissue, Open Approach                           |

## ICD-10 PCS codes for CABG procedures, cont'd

| ICD-10 PCS Procedure Code | ICD-10 PCS Code Description   |
|---------------------------|---|
| 021109C                   | Bypass Coronary Artery, Two Sites from Thoracic Artery with Autologous Venous Tissue, Open Approach                           |
| 021109F                   | Bypass Coronary Artery, Two Sites from Abdominal Artery with Autologous Venous Tissue, Open Approach                          |
| 021109W                   | Bypass Coronary Artery, Two Sites from Aorta with Autologous Venous Tissue, Open Approach                                     |
| 02110A3                   | Bypass Coronary Artery, Two Sites from Coronary Artery with Autologous Arterial Tissue, Open Approach                         |
| 02110A8                   | Bypass Coronary Artery, Two Sites from Right Internal Mammary with Autologous Arterial Tissue, Open Approach                  |
| 02110A9                   | Bypass Coronary Artery, Two Sites from Left Internal Mammary with Autologous Arterial Tissue, Open Approach                   |
| 02110AC                   | Bypass Coronary Artery, Two Sites from Thoracic Artery with Autologous Arterial Tissue, Open Approach                         |
| 02110AF                   | Bypass Coronary Artery, Two Sites from Abdominal Artery with Autologous Arterial Tissue, Open Approach                        |
| 02110AW                   | Bypass Coronary Artery, Two Sites from Aorta with Autologous Arterial Tissue, Open Approach                                   |
| 02110J3                   | Bypass Coronary Artery, Two Sites from Coronary Artery with Synthetic Substitute, Open Approach                               |
| 02110J8                   | Bypass Coronary Artery, Two Sites from Right Internal Mammary with Synthetic Substitute, Open Approach                        |
| 02110J9                   | Bypass Coronary Artery, Two Sites from Left Internal Mammary with Synthetic Substitute, Open Approach                         |
| 02110JC                   | Bypass Coronary Artery, Two Sites from Thoracic Artery with Synthetic Substitute, Open Approach                               |
| 02110JF                   | Bypass Coronary Artery, Two Sites from Abdominal Artery with Synthetic Substitute, Open Approach                              |
| 02110JW                   | Bypass Coronary Artery, Two Sites from Aorta with Synthetic Substitute, Open Approach   |
| 02110K3                   | Bypass Coronary Artery, Two Sites from Coronary Artery with Nonautologous Tissue Substitute, Open Approach                    |
| 02110K8                   | Bypass Coronary Artery, Two Sites from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach             |
| 02110K9                   | Bypass Coronary Artery, Two Sites from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach              |
| 02110KC                   | Bypass Coronary Artery, Two Sites from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach                    |
| 02110KF                   | Bypass Coronary Artery, Two Sites from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach                   |
| 02110KW                   | Bypass Coronary Artery, Two Sites from Aorta with Nonautologous Tissue Substitute, Open Approach                              |
| 02110Z3                   | Bypass Coronary Artery, Two Sites from Coronary Artery, Open Approach   |
| 02110Z8                   | Bypass Coronary Artery, Two Sites from Right Internal Mammary, Open Approach  |
| 02110Z9                   | Bypass Coronary Artery, Two Sites from Left Internal Mammary, Open Approach   |
| 02110ZC                   | Bypass Coronary Artery, Two Sites from Thoracic Artery, Open Approach   |
| 02110ZF                   | Bypass Coronary Artery, Two Sites from Abdominal Artery, Open Approach  |
| 0211493                   | Bypass Coronary Artery, Two Sites from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach        |
| 0211498                   | Bypass Coronary Artery, Two Sites from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach |
| 0211499                   | Bypass Coronary Artery, Two Sites from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach  |
| 021149C                   | Bypass Coronary Artery, Two Sites from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach        |
| 021149F                   | Bypass Coronary Artery, Two Sites from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach       |
| 021149W                   | Bypass Coronary Artery, Two Sites from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach                  |

## ICD-10 PCS codes for CABG procedures, cont'd

| ICD-10 PCS Procedure Code | ICD-10 PCS Code Description  |
|---------------------------|--|
| 02114A3                   | Bypass Coronary Artery, Two Sites from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach             |
| 02114A8                   | Bypass Coronary Artery, Two Sites from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach      |
| 02114A9                   | Bypass Coronary Artery, Two Sites from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach       |
| 02114AC                   | Bypass Coronary Artery, Two Sites from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach             |
| 02114AF                   | Bypass Coronary Artery, Two Sites from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach            |
| 02114AW                   | Bypass Coronary Artery, Two Sites from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach                       |
| 02114J3                   | Bypass Coronary Artery, Two Sites from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach                   |
| 02114J8                   | Bypass Coronary Artery, Two Sites from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach            |
| 02114J9                   | Bypass Coronary Artery, Two Sites from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach             |
| 02114JC                   | Bypass Coronary Artery, Two Sites from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach                   |
| 02114JF                   | Bypass Coronary Artery, Two Sites from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach                  |
| 02114JW                   | Bypass Coronary Artery, Two Sites from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach                             |
| 02114K3                   | Bypass Coronary Artery, Two Sites from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach        |
| 02114K8                   | Bypass Coronary Artery, Two Sites from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach |
| 02114K9                   | Bypass Coronary Artery, Two Sites from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach  |
| 02114KC                   | Bypass Coronary Artery, Two Sites from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach        |
| 02114KF                   | Bypass Coronary Artery, Two Sites from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach       |
| 02114KW                   | Bypass Coronary Artery, Two Sites from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach                  |
| 02114Z3                   | Bypass Coronary Artery, Two Sites from Coronary Artery, Percutaneous Endoscopic Approach   |
| 02114Z8                   | Bypass Coronary Artery, Two Sites from Right Internal Mammary, Percutaneous Endoscopic Approach                                      |
| 02114Z9                   | Bypass Coronary Artery, Two Sites from Left Internal Mammary, Percutaneous Endoscopic Approach                                       |
| 02114ZC                   | Bypass Coronary Artery, Two Sites from Thoracic Artery, Percutaneous Endoscopic Approach   |
| 02114ZF                   | Bypass Coronary Artery, Two Sites from Abdominal Artery, Percutaneous Endoscopic Approach  |
| 0212093                   | Bypass Coronary Artery, Three Sites from Coronary Artery with Autologous Venous Tissue, Open Approach                                |
| 0212098                   | Bypass Coronary Artery, Three Sites from Right Internal Mammary with Autologous Venous Tissue, Open Approach                         |
| 0212099                   | Bypass Coronary Artery, Three Sites from Left Internal Mammary with Autologous Venous Tissue, Open Approach                          |
| 021209C                   | Bypass Coronary Artery, Three Sites from Thoracic Artery with Autologous Venous Tissue, Open Approach                                |
| 021209F                   | Bypass Coronary Artery, Three Sites from Abdominal Artery with Autologous Venous Tissue, Open Approach                               |
| 021209W                   | Bypass Coronary Artery, Three Sites from Aorta with Autologous Venous Tissue, Open Approach  |

## ICD-10 PCS codes for CABG procedures, cont'd

| ICD-10 PCS Procedure Code | ICD-10 PCS Code Description   |
|---------------------------|---|
| 02120A3                   | Bypass Coronary Artery, Three Sites from Coronary Artery with Autologous Arterial Tissue, Open Approach                           |
| 02120A8                   | Bypass Coronary Artery, Three Sites from Right Internal Mammary with Autologous Arterial Tissue, Open Approach                    |
| 02120A9                   | Bypass Coronary Artery, Three Sites from Left Internal Mammary with Autologous Arterial Tissue, Open Approach                     |
| 02120AC                   | Bypass Coronary Artery, Three Sites from Thoracic Artery with Autologous Arterial Tissue, Open Approach                           |
| 02120AF                   | Bypass Coronary Artery, Three Sites from Abdominal Artery with Autologous Arterial Tissue, Open Approach                          |
| 02120AW                   | Bypass Coronary Artery, Three Sites from Aorta with Autologous Arterial Tissue, Open Approach                                     |
| 02120J3                   | Bypass Coronary Artery, Three Sites from Coronary Artery with Synthetic Substitute, Open Approach                                 |
| 02120J8                   | Bypass Coronary Artery, Three Sites from Right Internal Mammary with Synthetic Substitute, Open Approach                          |
| 02120J9                   | Bypass Coronary Artery, Three Sites from Left Internal Mammary with Synthetic Substitute, Open Approach                           |
| 02120JC                   | Bypass Coronary Artery, Three Sites from Thoracic Artery with Synthetic Substitute, Open Approach                                 |
| 02120JF                   | Bypass Coronary Artery, Three Sites from Abdominal Artery with Synthetic Substitute, Open Approach                                |
| 02120JW                   | Bypass Coronary Artery, Three Sites from Aorta with Synthetic Substitute, Open Approach   |
| 02120K3                   | Bypass Coronary Artery, Three Sites from Coronary Artery with Nonautologous Tissue Substitute, Open Approach                      |
| 02120K8                   | Bypass Coronary Artery, Three Sites from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach               |
| 02120K9                   | Bypass Coronary Artery, Three Sites from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach                |
| 02120KC                   | Bypass Coronary Artery, Three Sites from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach                      |
| 02120KF                   | Bypass Coronary Artery, Three Sites from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach                     |
| 02120KW                   | Bypass Coronary Artery, Three Sites from Aorta with Nonautologous Tissue Substitute, Open Approach                                |
| 02120Z3                   | Bypass Coronary Artery, Three Sites from Coronary Artery, Open Approach   |
| 02120Z8                   | Bypass Coronary Artery, Three Sites from Right Internal Mammary, Open Approach  |
| 02120Z9                   | Bypass Coronary Artery, Three Sites from Left Internal Mammary, Open Approach   |
| 02120ZC                   | Bypass Coronary Artery, Three Sites from Thoracic Artery, Open Approach   |
| 02120ZF                   | Bypass Coronary Artery, Three Sites from Abdominal Artery, Open Approach  |
| 0212493                   | Bypass Coronary Artery, Three Sites from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach          |
| 0212498                   | Bypass Coronary Artery, Three Sites from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach   |
| 0212499                   | Bypass Coronary Artery, Three Sites from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach    |
| 021249C                   | Bypass Coronary Artery, Three Sites from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach          |
| 021249F                   | Bypass Coronary Artery, Three Sites from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach         |
| 021249W                   | Bypass Coronary Artery, Three Sites from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach                    |
| 02124A3                   | Bypass Coronary Artery, Three Sites from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach        |
| 02124A8                   | Bypass Coronary Artery, Three Sites from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach |

## ICD-10 PCS codes for CABG procedures, cont'd

| ICD-10 PCS Procedure Code | ICD-10 PCS Code Description  |
|---------------------------|--|
| 02124A9                   | Bypass Coronary Artery, Three Sites from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach       |
| 02124AC                   | Bypass Coronary Artery, Three Sites from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach             |
| 02124AF                   | Bypass Coronary Artery, Three Sites from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach            |
| 02124AW                   | Bypass Coronary Artery, Three Sites from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach                       |
| 02124J3                   | Bypass Coronary Artery, Three Sites from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach                   |
| 02124J8                   | Bypass Coronary Artery, Three Sites from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach            |
| 02124J9                   | Bypass Coronary Artery, Three Sites from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach             |
| 02124JC                   | Bypass Coronary Artery, Three Sites from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach                   |
| 02124JF                   | Bypass Coronary Artery, Three Sites from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach                  |
| 02124JW                   | Bypass Coronary Artery, Three Sites from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach                             |
| 02124K3                   | Bypass Coronary Artery, Three Sites from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach        |
| 02124K8                   | Bypass Coronary Artery, Three Sites from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach |
| 02124K9                   | Bypass Coronary Artery, Three Sites from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach  |
| 02124KC                   | Bypass Coronary Artery, Three Sites from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach        |
| 02124KF                   | Bypass Coronary Artery, Three Sites from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach       |
| 02124KW                   | Bypass Coronary Artery, Three Sites from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach                  |
| 02124Z3                   | Bypass Coronary Artery, Three Sites from Coronary Artery, Percutaneous Endoscopic Approach   |
| 02124Z8                   | Bypass Coronary Artery, Three Sites from Right Internal Mammary, Percutaneous Endoscopic Approach                                      |
| 02124Z9                   | Bypass Coronary Artery, Three Sites from Left Internal Mammary, Percutaneous Endoscopic Approach                                       |
| 02124ZC                   | Bypass Coronary Artery, Three Sites from Thoracic Artery, Percutaneous Endoscopic Approach   |
| 02124ZF                   | Bypass Coronary Artery, Three Sites from Abdominal Artery, Percutaneous Endoscopic Approach  |
| 0213093                   | Bypass Coronary Artery, Four or More Sites from Coronary Artery with Autologous Venous Tissue, Open Approach                           |
| 0213098                   | Bypass Coronary Artery, Four or More Sites from Right Internal Mammary with Autologous Venous Tissue, Open Approach                    |
| 0213099                   | Bypass Coronary Artery, Four or More Sites from Left Internal Mammary with Autologous Venous Tissue, Open Approach                     |
| 021309C                   | Bypass Coronary Artery, Four or More Sites from Thoracic Artery with Autologous Venous Tissue, Open Approach                           |
| 021309F                   | Bypass Coronary Artery, Four or More Sites from Abdominal Artery with Autologous Venous Tissue, Open Approach                          |
| 021309W                   | Bypass Coronary Artery, Four or More Sites from Aorta with Autologous Venous Tissue, Open Approach                                     |
| 02130A3                   | Bypass Coronary Artery, Four or More Sites from Coronary Artery with Autologous Arterial Tissue, Open Approach                         |

## ICD-10 PCS codes for CABG procedures, cont'd

| ICD-10 PCS Procedure Code | ICD-10 PCS Code Description  |
|---------------------------|--|
| 02130A8                   | Bypass Coronary Artery, Four or More Sites from Right Internal Mammary with Autologous Arterial Tissue, Open Approach                  |
| 02130A9                   | Bypass Coronary Artery, Four or More Sites from Left Internal Mammary with Autologous Arterial Tissue, Open Approach                   |
| 02130AC                   | Bypass Coronary Artery, Four or More Sites from Thoracic Artery with Autologous Arterial Tissue, Open Approach                         |
| 02130AF                   | Bypass Coronary Artery, Four or More Sites from Abdominal Artery with Autologous Arterial Tissue, Open Approach                        |
| 02130AW                   | Bypass Coronary Artery, Four or More Sites from Aorta with Autologous Arterial Tissue, Open Approach                                   |
| 02130J3                   | Bypass Coronary Artery, Four or More Sites from Coronary Artery with Synthetic Substitute, Open Approach                               |
| 02130J8                   | Bypass Coronary Artery, Four or More Sites from Right Internal Mammary with Synthetic Substitute, Open Approach                        |
| 02130J9                   | Bypass Coronary Artery, Four or More Sites from Left Internal Mammary with Synthetic Substitute, Open Approach                         |
| 02130JC                   | Bypass Coronary Artery, Four or More Sites from Thoracic Artery with Synthetic Substitute, Open Approach                               |
| 02130JF                   | Bypass Coronary Artery, Four or More Sites from Abdominal Artery with Synthetic Substitute, Open Approach                              |
| 02130JW                   | Bypass Coronary Artery, Four or More Sites from Aorta with Synthetic Substitute, Open Approach   |
| 02130K3                   | Bypass Coronary Artery, Four or More Sites from Coronary Artery with Nonautologous Tissue Substitute, Open Approach                    |
| 02130K8                   | Bypass Coronary Artery, Four or More Sites from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach             |
| 02130K9                   | Bypass Coronary Artery, Four or More Sites from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach              |
| 02130KC                   | Bypass Coronary Artery, Four or More Sites from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach                    |
| 02130KF                   | Bypass Coronary Artery, Four or More Sites from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach                   |
| 02130KW                   | Bypass Coronary Artery, Four or More Sites from Aorta with Nonautologous Tissue Substitute, Open Approach                              |
| 02130Z3                   | Bypass Coronary Artery, Four or More Sites from Coronary Artery, Open Approach   |
| 02130Z8                   | Bypass Coronary Artery, Four or More Sites from Right Internal Mammary, Open Approach  |
| 02130Z9                   | Bypass Coronary Artery, Four or More Sites from Left Internal Mammary, Open Approach   |
| 02130ZC                   | Bypass Coronary Artery, Four or More Sites from Thoracic Artery, Open Approach   |
| 02130ZF                   | Bypass Coronary Artery, Four or More Sites from Abdominal Artery, Open Approach  |
| 0213493                   | Bypass Coronary Artery, Four or More Sites from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach        |
| 0213498                   | Bypass Coronary Artery, Four or More Sites from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach |
| 0213499                   | Bypass Coronary Artery, Four or More Sites from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach  |
| 021349C                   | Bypass Coronary Artery, Four or More Sites from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach        |
| 021349F                   | Bypass Coronary Artery, Four or More Sites from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach       |
| 021349W                   | Bypass Coronary Artery, Four or More Sites from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach                  |
| 02134A3                   | Bypass Coronary Artery, Four or More Sites from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach      |

## ICD-10 PCS codes for CABG procedures, cont'd

| ICD-10 PCS Procedure Code | ICD-10 PCS Code Description   |
|---------------------------|---|
| 02134A8                   | Bypass Coronary Artery, Four or More Sites from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach      |
| 02134A9                   | Bypass Coronary Artery, Four or More Sites from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach       |
| 02134AC                   | Bypass Coronary Artery, Four or More Sites from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach             |
| 02134AF                   | Bypass Coronary Artery, Four or More Sites from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach            |
| 02134AW                   | Bypass Coronary Artery, Four or More Sites from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach                       |
| 02134J3                   | Bypass Coronary Artery, Four or More Sites from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach                   |
| 02134J8                   | Bypass Coronary Artery, Four or More Sites from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach            |
| 02134J9                   | Bypass Coronary Artery, Four or More Sites from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach             |
| 02134JC                   | Bypass Coronary Artery, Four or More Sites from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach                   |
| 02134JF                   | Bypass Coronary Artery, Four or More Sites from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach                  |
| 02134JW                   | Bypass Coronary Artery, Four or More Sites from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach                             |
| 02134K3                   | Bypass Coronary Artery, Four or More Sites from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach        |
| 02134K8                   | Bypass Coronary Artery, Four or More Sites from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach |
| 02134K9                   | Bypass Coronary Artery, Four or More Sites from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach  |
| 02134KC                   | Bypass Coronary Artery, Four or More Sites from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach        |
| 02134KF                   | Bypass Coronary Artery, Four or More Sites from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach       |
| 02134KW                   | Bypass Coronary Artery, Four or More Sites from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach                  |
| 02134Z3                   | Bypass Coronary Artery, Four or More Sites from Coronary Artery, Percutaneous Endoscopic Approach   |
| 02134Z8                   | Bypass Coronary Artery, Four or More Sites from Right Internal Mammary, Percutaneous Endoscopic Approach                                      |
| 02134Z9                   | Bypass Coronary Artery, Four or More Sites from Left Internal Mammary, Percutaneous Endoscopic Approach                                       |
| 02134ZC                   | Bypass Coronary Artery, Four or More Sites from Thoracic Artery, Percutaneous Endoscopic Approach   |
| 02134ZF                   | Bypass Coronary Artery, Four or More Sites from Abdominal Artery, Percutaneous Endoscopic Approach  |

# Physician CPT codes

| Aortic valve procedures |  |                            |  |
|-------------------------|--|----------------------------|--|
| CPT® Code               | Code Description   | 2022                       |  |
|                         |  | Facility RVUs <sup>2</sup> | Physician Facility Fee Schedule Medicare National Unadjusted Amount <sup>2</sup> |
| 33361                   | Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; percutaneous femoral artery approach   | 35.5                       | \$1,229  |
| 33362                   | Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open femoral artery approach   | 38.7                       | \$1,339  |
| 33363                   | Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open axillary artery approach  | 40.12                      | \$1,388  |
| 33364                   | Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open iliac artery approach   | 40.08                      | \$1,387  |
| 33365                   | Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transaortic approach (eg, median sternotomy, mediastinotomy)   | 41.86                      | \$1,449  |
| 33366                   | Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transapical exposure (eg, left thoractomy)   | 46.13                      | \$1,596  |
| 33367                   | Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with percutaneous peripheral arterial and venous cannulation (eg femoral vessels) (List separately in addition to code for primary procedure)           | 17.94                      | \$621  |
| 33368                   | Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with open peripheral arterial and venous cannulation (eg, femoral, iliac, axillary vessels) (List separately in addition to code for primary procedure) | 21.74                      | \$752  |
| 33369                   | Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with central arterial and venous cannulation (eg, aorta, right atrium, pulmonary artery) (List separately in addition to code for primary procedure)    | 28.68                      | \$993  |
| 33390                   | Valvuloplasty, aortic valve, open with cardiopulmonary bypass; simple (eg, valvotomy, debridement, debulking, and/or simple commissural resuspension)  | 56.58                      | \$1,958  |
| 33391                   | Valvuloplasty, aortic valve, open with cardiopulmonary bypass; complex (eg, leaflet extension, leaflet resection, leaflet reconstruction, or annuloplasty)   | 67.27                      | \$2,328  |
| 33405                   | Replacement, aortic valve, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve  | 66.61                      | \$2,305  |
| 33406                   | "Replacement, aortic valve, with cardiopulmonary bypass; with allograft valve (freehand)"  | 84.31                      | \$2,918  |
| 33410                   | Replacement, aortic valve, with cardiopulmonary bypass; with stentless tissue valve  | 74.51                      | \$2,579  |
| 33411                   | Replacement, aortic valve; with aortic annulus enlargement, noncoronary cusp   | 98.35                      | \$3,404  |
| 33412                   | Replacement, aortic valve; with transventricular aortic annulus enlargement (Konno procedure)  | 92.30                      | \$3,194  |

All Medicare rates displayed in this table reflect the "national unadjusted" amounts inclusive of beneficiary cost-sharing and do not reflect any additional payment adjustments, such as the 2% sequester reduction mandated by the Budget Control Act of 2011 or the 4% PAYGO reduction triggered by the American Rescue Plan in December 2020. Please note that on December 10, 2021, legislation was enacted to delay the 2% sequestration for 3 months (January 1–March 31, 2022), followed by a reduction of 1% for 3 months (April 1–June 30, 2022). The full 2% sequestration cut will go back into effect on July 1, 2022. The 4% PAYGO reduction was postponed through January 1, 2023.

Index procedure codes 33361-33366 are paid at 62.5% of the fee schedule amount for each provider.

## Aortic valve procedures, cont'd.

| CPT Code | Code Description   | 2022                       |  |
|----------|--|----------------------------|--|
|          |  | Facility RVUs <sup>2</sup> | Physician Facility Fee Schedule Medicare National Unadjusted Amount <sup>2</sup> |
| 33413    | Replacement, aortic valve; by translocation of autologous pulmonary valve with allograft replacement of pulmonary valve (Ross procedure) | 94.57                      | \$3,273  |
| 33414    | Repair of left ventricular outflow tract obstruction by patch enlargement of the outflow tract   | 62.95                      | \$2,178  |
| 33415    | Resection or incision of subvalvular tissue for discrete subvalvular aortic stenosis   | 59.50                      | \$2,059  |
| 33416    | Ventriculomyotomy (-myectomy) for idiopathic hypertrophic subaortic stenosis (eg, asymmetric septal hypertrophy)                         | 59.35                      | \$2,054  |
| 33417    | Aortoplasty (gusset) for supra-avalvular stenosis  | 48.97                      | \$1,695  |

## Mitral valve procedures

| CPT Code | Code Description  | 2022                       |  |
|----------|---|----------------------------|--|
|          |   | Facility RVUs <sup>2</sup> | Physician Facility Fee Schedule <sup>2</sup> |
| 33418    | Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture when performed; initial prosthesis   | 52.83                      | \$1,828                                      |
| 33419    | Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture when performed; additional prosthesis(es) during same session (List separately in additiona to code for primary procedure) | 12.44                      | \$431  |
| 33420    | Valvotomy, mitral valve; closed heart   | 42.63                      | \$1,475                                      |
| 33422    | Valvotomy, mitral valve; open heart, with cardiopulmonary bypass  | 48.87                      | \$1,691                                      |
| 33425    | Valvuloplasty, mitral valve, with cardiopulmonary bypass  | 80.1                       | \$2,772                                      |
| 33426    | Valvuloplasty, mitral valve, with cardiopulmonary bypass; with prosthetic ring  | 69.85                      | \$2,417                                      |
| 33427    | Valvuloplasty, mitral valve, with cardiopulmonary bypass; radical reconstruction, with or without ring  | 71.49                      | \$2,474                                      |
| 33430    | Replacement, mitral valve, with cardiopulmonary bypass  | 82.19                      | \$2,844                                      |

## Tricuspid valve procedures

| CPT Code | Code Description  | 2022                       |  |
|----------|---|----------------------------|--|
|          |   | Facility RVUs <sup>2</sup> | Physician Facility Fee Schedule <sup>2</sup> |
| 33460    | Valvectomy, tricuspid valve, with cardiopulmonary bypass        | 70.40                      | \$2,436                                      |
| 33463    | Valvuloplasty, tricuspid valve; without ring insertion          | 90.04                      | \$3,116                                      |
| 33464    | Valvuloplasty, tricuspid valve; with ring insertion             | 71.48                      | \$2,474                                      |
| 33465    | Replacement, tricuspid valve, with cardiopulmonary bypass       | 80.72                      | \$2,793                                      |
| 33468    | Tricuspid valve repositioning and plication for Ebstein anomaly | 71.80                      | \$2,485                                      |

## Pulmonary valve procedures

| CPT Code | Code Description  | 2022                       |  |
|----------|---|----------------------------|--|
|          |   | Facility RVUs <sup>2</sup> | Physician Facility Fee Schedule <sup>2</sup> |
| 33471    | Valvotomy, pulmonary valve, closed heart; via pulmonary artery  | 38.91                      | \$1,347                                      |
| 33474    | Valvotomy, pulmonary valve, open heart; with cardiopulmonary bypass   | 63.92                      | \$2,212                                      |
| 33475    | Replacement, pulmonary valve  | 68.09                      | \$2,356                                      |
| 33476    | Right ventricular resection for infundibular stenosis, with or without commissurotomy   | 44.74                      | \$1,548                                      |
| 33477    | Transcatheter pulmonary valve implantation, percutaneous approach, including pre-stenting of the valve delivery site, when performed. | 39.78                      | \$1,377                                      |
| 33478    | Outflow tract augmentation (gusset), with or without commissurotomy or infundibular resection   | 46.21                      | \$1,599                                      |

## Other valve procedures

| CPT Code | Code Description  | 2022                       |  |
|----------|---|----------------------------|--|
|          |   | Facility RVUs <sup>2</sup> | Physician Facility Fee Schedule <sup>2</sup> |
| 33496    | Repair of non-structural prosthetic valve dysfunction with cardiopulmonary bypass (separate procedure)  | 48.92                      | \$1,693                                      |
| 33600    | Closure of atrioventricular valve (mitral or tricuspid) by suture or patch  | 50.46                      | \$1,746                                      |
| 33602    | Closure of semilunar valve (aortic or pulmonary) by suture or patch   | 48.99                      | \$1,695                                      |
| 33858    | Ascending aorta graft, with cardiopulmonary bypass, includes valve suspension, when performed; for aortic dissection  | 99.49                      | \$3,443                                      |
| 33859    | Ascending aorta graft, with cardiopulmonary bypass, includes valve suspension, when performed; for aortic disease other than dissection (eg, aneurysm)                                    | 71.50                      | \$2,474                                      |
| 33863    | Ascending aorta graft, with cardiopulmonary bypass, with or without valve suspension; with aortic root replacement using composite prosthesis and coronary reconstruction                 | 92.21                      | \$3,191                                      |
| 33864    | Ascending aorta graft, with cardiopulmonary bypass with valve suspension, with coronary reconstruction and valve sparing aortic root remodeling (e.g., David procedure, Yacoub procedure) | 94.35                      | \$3,265                                      |

## Venous grafting only for coronary artery bypass

| CPT Code | Code Description  | 2022                       |  |
|----------|---|----------------------------|--|
|          |   | Facility RVUs <sup>2</sup> | Physician Facility Fee Schedule <sup>2</sup> |
| 33508    | Endoscopy, surgical, including video-assisted harvest of vein(s) for coronary artery bypass procedure (List separately in addition to code for primary procedure) | 0.48                       | \$17   |
| 33510    | Coronary artery bypass, vein only; single coronary venous graft   | 56.78                      | \$1,965                                      |
| 33511    | Coronary artery bypass, vein only; two coronary venous grafts   | 62.33                      | \$2,157                                      |
| 33512    | Coronary artery bypass, vein only; three coronary venous grafts   | 71.07                      | \$2,459                                      |
| 33513    | Coronary artery bypass, vein only; four coronary venous grafts  | 72.77                      | \$2,518                                      |
| 33514    | Coronary artery bypass, vein only; five coronary venous grafts  | 76.57                      | \$2,650                                      |
| 33516    | Coronary artery bypass, vein only; six or more coronary venous grafts   | 79.29                      | \$2,744                                      |

## Combined arterial-venous grafting for coronary artery bypass

| CPT Code | Code Description   | 2022                       |  |
|----------|--|----------------------------|--|
|          |  | Facility RVUs <sup>2</sup> | Physician Facility Fee Schedule <sup>2</sup> |
| 33517    | Coronary artery bypass, using venous graft(s) and arterial graft(s); single vein graft (List separately in addition to code for primary procedure)         | 5.5                        | \$190  |
| 33518    | Coronary artery bypass, using venous graft(s) and arterial graft(s); two venous grafts (List separately in addition to code for primary procedure)         | 12.03                      | \$416  |
| 33519    | Coronary artery bypass, using venous graft(s) and arterial graft(s); three venous grafts (List separately in addition to code for primary procedure)       | 15.94                      | \$552  |
| 33521    | Coronary artery bypass, using venous graft(s) and arterial graft(s); four venous grafts (List separately in addition to code for primary procedure)        | 19.11                      | \$661  |
| 33522    | Coronary artery bypass, using venous graft(s) and arterial graft(s); five venous grafts (List separately in addition to code for primary procedure)        | 21.45                      | \$742  |
| 33523    | Coronary artery bypass, using venous graft(s) and arterial graft(s); six or more venous grafts (List separately in addition to code for primary procedure) | 24.27                      | \$840  |

## Arterial grafting for coronary artery bypass

| CPT Code | Code Description   | 2022                       |  |
|----------|--|----------------------------|--|
|          |  | Facility RVUs <sup>2</sup> | Physician Facility Fee Schedule <sup>2</sup> |
| 33509    | Harvest of upper extremity artery, 1 segment, for coronary artery bypass procedure, endoscopic | 5.07                       | \$175  |
| 33533    | Coronary artery bypass, using arterial graft(s); single arterial graft                         | 54.94                      | \$1,901                                      |
| 33534    | Coronary artery bypass, using arterial graft(s); two coronary arterial grafts                  | 64.49                      | \$2,232                                      |
| 33535    | Coronary artery bypass, using arterial graft(s); three coronary arterial grafts                | 71.79                      | \$2,484                                      |
| 33536    | Coronary artery bypass, using arterial graft(s); four or more coronary arterial grafts         | 77.32                      | \$2,676                                      |

## Other CABG-related procedures

| CPT Code | Code Description  | 2022                        |  |
|----------|---|-----------------------------|--|
|          |   | Facility RVUs <sup>2</sup>  | Physician Facility Fee Schedule <sup>2</sup> |
| 33530    | Reoperation, coronary artery bypass procedure or valve procedure, more than one month after original operation (List separately in addition to code for primary procedure)  | 15.37                       | \$532  |
| 33542    | Myocardial resection (eg, ventricular aneurysmectomy)   | 76.75                       | \$2,656                                      |
| 33545    | Repair of postinfarction ventricular septal defect, with or without myocardial resection  | 90.01                       | \$3,115                                      |
| 33572    | Coronary endarterectomy, open, any method, of left anterior descending, circumflex, or right coronary artery performed in conjunction with coronary artery bypass graft procedure, each vessel (List separately in addition to primary procedure) | 76.75                       | \$233  |
| 33999    | Unlisted procedure, cardiac surgery   | Carrier priced <sup>3</sup> | Carrier priced <sup>3</sup>                  |
| 35500    | Harvest of upper extremity vein, one segment, for lower extremity or coronary artery bypass procedure (List separately in addition to code for primary procedure)   | 9.31                        | \$322  |
| 35600    | Harvest of upper extremity artery, one segment, for coronary artery bypass procedure  | 5.47                        | \$189  |
| 93799    | Unlisted cardiovascular service or procedure  | Carrier priced <sup>3</sup> | Carrier priced <sup>3</sup>                  |

## Extracorporeal membrane oxygenation

| CPT Code | Procedure Description   | Facility RVUs <sup>2</sup> | Physician Facility Fee Schedule <sup>2</sup> |
|----------|---|----------------------------|--|
| 33946    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; initiation, veno-venous  | 9.08                       | \$314  |
| 33947    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; initiation, veno-arterial  | 10.04                      | \$347  |
| 33948    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; daily management, each day, veno-venous  | 6.98                       | \$242  |
| 33949    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; daily management, each day, veno-arterial  | 6.77                       | \$234  |
| 33951    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), percutaneous, birth through 5 years of age (includes fluoroscopic guidance, when performed) | 12.41                      | \$429  |
| 33952    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older (includes fluoroscopic guidance, when performed)            | 12.53                      | \$434  |

## Extracorporeal membrane oxygenation, cont'd.

| CPT Code | Procedure Description   | Facility RVUs <sup>2</sup> | Physician Facility Fee Schedule <sup>2</sup> |
|----------|---|----------------------------|--|
| 33953    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), open, birth through 5 years of age  | 13.88                      | \$480  |
| 33954    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), open, 6 years and older   | 13.99                      | \$484  |
| 33955    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of central cannula(e) by sternotomy or thoracotomy, birth through 5 years of age   | 24.25                      | \$839  |
| 33956    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of central cannula(e) by sternotomy or thoracotomy, 6 years and older  | 24.44                      | \$846  |
| 33957    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), percutaneous, birth through 5 years of age (includes fluoroscopic guidance, when performed) | 5.41                       | \$187  |
| 33958    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older (includes fluoroscopic guidance, when performed)            | 5.41                       | \$187  |
| 33959    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), open, birth through 5 years of age (includes fluoroscopic guidance, when performed)         | 6.85                       | \$237  |
| 33962    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), open, 6 years and older (includes fluoroscopic guidance, when performed)                    | 6.85                       | \$237  |
| 33963    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition of central cannula(e) by sternotomy or thoracotomy, birth through 5 years of age (includes fluoroscopic guidance, when performed)           | 13.69                      | \$474  |
| 33964    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition central cannula(e) by sternotomy or thoracotomy, 6 years and older (includes fluoroscopic guidance, when performed)                         | 14.44                      | \$500  |
| 33965    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e), percutaneous, birth through 5 years of age  | 5.41                       | \$187  |
| 33966    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older   | 6.92                       | \$239  |
| 33969    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e), open, birth through 5 years of age  | 7.97                       | \$276  |

## Extracorporeal membrane oxygenation, cont'd.

| CPT Code | Procedure Description   | Facility RVUs <sup>2</sup> | Physician Facility Fee Schedule <sup>2</sup> |
|----------|---|----------------------------|--|
| 33984    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e), open, 6 years and older       | 8.31                       | \$288  |
| 33985    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of central cannula(e) by sternotomy or thoracotomy, birth through 5 years of age | 15.03                      | \$520  |
| 33986    | Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of central cannula(e) by sternotomy or thoracotomy, 6 years and older            | 15.32                      | \$530  |

### References

- <sup>1</sup> CMS-1735 FY21 IPPS Final Rule Homepage. Available at: <https://www.cms.gov/medicare/acute-inpatient-pps/fy-2021-ipp-pps-final-rule-home-page#1735>. Accessed January 27, 2021.
- <sup>2</sup> CMS CY 2022 Medicare Physician Fee Schedule Final Rule. Available at: <https://tinyurl.com/m2xcxy26>. Accessed November 23, 2021. All Medicare rates displayed in this table reflect the "national unadjusted" amounts inclusive of beneficiary cost-sharing and do not reflect any additional payment adjustments, such as the 2% sequester reduction mandated by the Budget Control Act of 2011 or the 4% PAYGO reduction triggered by the American Rescue Plan in December 2020. Please note that on December 10, 2021, legislation was enacted to delay the 2% sequestration for 3 months (January 1–March 31, 2022), followed by a reduction of 1% for 3 months (April 1–June 30, 2022). The full 2% sequestration cut will go back into effect on July 1, 2022. The 4% PAYGO reduction was postponed through January 1, 2023.
- <sup>3</sup> Carrier-priced code. Carriers will establish RVUs and payment amounts for these services, generally on a case-by-case basis following review of documentation, such as an operative report. 69 Fed. Reg. #219, November 15, 2004.

## Medtronic

710 Medtronic Parkway  
 Minneapolis, MN 55432-5604  
 USA  
 Tel: 763.514.4000  
 Fax: 763.514.4879

24-hour Technical Support  
 Toll-free: +1.800.328.2518

[medtronic.com](https://www.medtronic.com)

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