

# 2021 Reimbursement and Coding Guide

Surgical Heart Valve Therapy



Edwards

# Surgical Valve Repair and Replacement Procedures

## Physician Billing Codes

Clinicians use Current Procedural Terminology (CPT)<sup>1</sup> codes to bill for procedures and services. Each CPT code is assigned unique Relative Value Units (RVUs), which are used to determine payment by the Centers for Medicare & Medicaid Services (CMS) and other payers. Some commonly billed CPT codes used to describe procedures related to Edwards Lifesciences' Heart Valve technologies are listed below.<sup>2</sup> This list may not be comprehensive or complete. These procedures may be subject to the CMS multiple procedure reduction rule. When applicable, a payment reduction of 50% is applied to all payment amounts except the procedure with the greatest RVUs, which is paid at 100% unless exempt by CPT instructions or payer policy.

| CPT Code <sup>1</sup> | Description   | CY2021 Medicare National Average Physician Payment <sup>2</sup> Facility Setting |
|-----------------------|---|--|
| <b>Aortic</b>         |   |  |
| 33390                 | Valvuloplasty, aortic valve, open, with cardiopulmonary bypass; simple<br><i>(ie, valvotomy, debridement, debulking, and/or simple commissural resuspension)</i>      | \$1,961  |
| 33391                 | Valvuloplasty, aortic valve, open, with cardiopulmonary bypass; complex<br><i>(eg, leaflet extension, leaflet resection, leaflet reconstruction, or annuloplasty)</i> | \$2,335  |
| 33405                 | Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve   | \$2,314  |
| 33406                 | Replacement, aortic valve, open, with cardiopulmonary bypass; with allograft valve (freehand)   | \$2,936  |
| 33410                 | Replacement, aortic valve, open, with cardiopulmonary bypass; with stentless tissue valve   | \$2,590  |
| 33411                 | Replacement, aortic valve; with aortic annulus enlargement, noncoronary sinus   | \$3,418  |
| 33412                 | Replacement, aortic valve; with transventricular aortic annulus enlargement (Konno procedure)   | \$3,208  |
| 33413                 | Replacement, aortic valve; by translocation of autologous pulmonary valve with allograft replacement of pulmonary valve (Ross procedure)                              | \$3,285  |
| 92986                 | Percutaneous balloon valvuloplasty; aortic valve  | \$1,342  |
| <b>Bentall</b>        |   |  |
| 33863                 | Ascending aorta graft, w/cardiopulmonary bypass, w/aortic root replacement using valved conduit and coronary reconstructon (e.g., Bentall)                            | \$3,207  |
| <b>Mitral</b>         |   |  |
| 33420                 | Valvotomy, mitral valve; closed heart   | \$1,479  |
| 33422                 | Valvotomy, mitral valve; open heart, with cardiopulmonary bypass  | \$1,696  |
| 33425                 | Valvuloplasty, mitral valve, with cardiopulmonary bypass  | \$2,784  |
| 33426                 | Valvuloplasty, mitral valve, with cardiopulmonary bypass; with prosthetic ring  | \$2,426  |
| 33427                 | Valvuloplasty, mitral valve, with cardiopulmonary bypass; radical reconstruction, with or without ring  | \$2,485  |
| 33430                 | Replacement, mitral valve, with cardiopulmonary bypass  | \$2,855  |
| 92987                 | Percutaneous balloon valvuloplasty; mitral valve  | \$1,387  |
| <b>Tricuspid</b>      |   |  |
| 33460                 | Valvectomy, tricuspid valve, with cardiopulmonary bypass  | \$2,447  |
| 33463                 | Valvuloplasty, tricuspid valve; without ring insertion  | \$3,129  |
| 33464                 | Valvuloplasty, tricuspid valve; with ring insertion   | \$2,484  |
| 33465                 | Replacement, tricuspid valve, with cardiopulmonary bypass   | \$2,804  |
| 33468                 | Tricuspid valve repositioning and plication for Ebstein anomaly   | \$2,498  |
| <b>Pulmonary</b>      |   |  |
| 33470                 | Valvotomy, pulmonary valve, closed heart; transventricular  | \$1,263  |
| 33471                 | Valvotomy, pulmonary valve, closed heart; via pulmonary artery  | \$1,351  |
| 33475                 | Replacement pulmonary valve   | \$2,367  |
| 33999                 | Unlisted procedure, cardiac surgery   | Contractor Priced  |
| 92990                 | Percutaneous balloon valvuloplasty; pulmonary valve   | \$1,107  |

# Surgical Valve Repair and Replacement Procedures

## Inpatient Hospital Billing DRGs

Medicare reimburses inpatient hospital services under the Inpatient Prospective Payment System (IPPS), which bases payment on Medicare Severity-Diagnosis Related Groups (MS-DRGs). All services and supplies provided during the inpatient admission are bundled into a single MS-DRG payment rate for each patient regardless of the length of stay, intensity of treatments, or number of procedures performed. MS-DRG assignment is usually determined based on the patient's primary diagnosis or procedure performed, as indicated by the ICD-10-PCS codes on the billing form.

| MS-DRG <sup>3</sup> | Description  | FY2021 Medicare National Average Payment |
|---------------------|--|--|
| 216                 | Cardiac valve procedures and other major cardiothoracic procedures with cardiac catheterization with MCC             | \$67,040                                 |
| 217                 | Cardiac valve procedures and other major cardiothoracic procedures with cardiac catheterization with CC              | \$41,733                                 |
| 218                 | Cardiac valve procedures and other major cardiothoracic procedures with cardiac catheterization without MCC or CC    | \$33,058                                 |
| 219                 | Cardiac valve procedures and other major cardiothoracic procedures without cardiac catheterization with MCC          | \$51,774                                 |
| 220                 | Cardiac valve procedures and other major cardiothoracic procedures without cardiac catheterization with CC           | \$34,708                                 |
| 221                 | Cardiac valve procedures and other major cardiothoracic procedures without cardiac catheterization without MCC or CC | \$29,260                                 |

## ICD - 10 - PCS Procedure Codes for Inpatient Hospital Billing

| ICD-10-PCS <sup>4</sup>                            | Description   |
|--|---|
| <b>Aortic</b>                                      |   |
| 02RF07Z  | Replacement of Aortic Valve with Autologous Tissue Substitute, Open Approach  |
| 02RF0KZ  | Replacement of Aortic Valve with Nonautologous Tissue Substitute, Open Approach   |
| 02RF0JZ  | Replacement of Aortic Valve with Synthetic Substitute, Open Approach  |
| 02RF08Z  | Replacement of Aortic Valve with Zooplastic Tissue, Open Approach   |
| 02UF07Z  | Supplement Aortic Valve with Autologous Tissue Substitute, Open Approach  |
| 02UF0KZ  | Supplement Aortic Valve with Nonautologous Tissue Substitute, Open Approach   |
| 02UF0JZ  | Supplement Aortic Valve with Synthetic Substitute, Open Approach  |
| 02UF08Z  | Supplement Aortic Valve with Zooplastic Tissue, Open Approach   |
| <b>Use with EDWARDS INTUITY Elite valve system</b> |   |
| X2RF03Z  | Replacement of Aortic Valve using Zooplastic Tissue, Rapid Deployment Technique, Open Approach, New Technology, Group 2 |

| <b>Bentall</b> (Use both of these codes together for Bentall procedures utilizing KONNECT RESILIA aortic valved conduit) |  |
|--|--|
| 02RF08Z  | Replacement of Aortic Valve with Zooplastic Tissue, Open Approach                      |
| 02RX0JZ  | Replacement of Thoracic Aorta, Ascending/Arch with Synthetic Substitute, Open Approach |

# ICD - 10 - PCS Procedure Codes for Inpatient Hospital Billing (Cont.)

## ICD-10-PCS<sup>4</sup> Description

### Mitral Valve Replacement

|         |   |
|---------|---|
| 02RG08Z | Replacement of Mitral Valve with Zooplastic Tissue, Open Approach               |
| 02RG0JZ | Replacement of Mitral Valve with Synthetic Substitute, Open Approach            |
| 02RG0KZ | Replacement of Mitral Valve with Nonautologous Tissue Substitute, Open Approach |
| 02RG07Z | Replacement of Mitral Valve with Autologous Tissue Substitute, Open Approach    |

## ICD-10-PCS<sup>4</sup> Description

### Mitral Valve Repair

|         |  |
|---------|--|
| 02UG07E | Supplement Mitral Valve created from Left Atrioventricular Valve with Autologus Tissue Substitute, Open Approach     |
| 02UG07Z | Supplement Mitral Valve with Autologous Tissue Substitute, Open Approach   |
| 02UG08E | Supplement Mitral Valve created from Left Atrioventricular Valve with Zooplastic Tissue, Open Approach               |
| 02UG08Z | Supplement Mitral Valve with Zooplastic Tissue, Open Approach  |
| 02UG0JE | Supplement Mitral Valve created from Left Atrioventricular Valve with Synthetic Substitute, Open Approach            |
| 02UG0JZ | Supplement Mitral Valve with Synthetic Substitute, Open Approach   |
| 02UG0KE | Supplement Mitral Valve created from Left Atrioventricular Valve with Nonautologous Tissue Substitute, Open Approach |
| 02UG0KZ | Supplement Mitral Valve with Nonautologous Tissue Substitute, Open Approach  |
| 02WG07Z | Revision of Autologus Tissue Substitute in Mitral Valve, Open Approach   |
| 02WG08Z | Revision of Zooplastic Tissue in Mitral Valve, Open Approach   |
| 02WG0JZ | Revision of Synthetic Substitute in Mitral Valve, Open Approach  |
| 02WG0KZ | Revision of Nonautologous Tissue Substitute in Mitral Valve, Open Approach   |
| 02QG0ZE | Repair of Mitral Valve created from Left Atrioventricular Valve, Open Approach                                       |
| 02QG0ZZ | Repair of Mitral Valve, Open Approach  |

## ICD-10-PCS<sup>4</sup> Description

### Pulmonary

|         |  |
|---------|--|
| 02NH0ZZ | Release Pulmonary Valve, Open Approach   |
| 02QH0ZZ | Repair Pulmonary Valve, Open Approach  |
| 02RH07Z | Replacement of Pulmonary Valve with Autologous Tissue Substitute, Open Approach    |
| 02RH0KZ | Replacement of Pulmonary Valve with Nonautologous Tissue Substitute, Open Approach |
| 02RH0JZ | Replacement of Pulmonary Valve with Synthetic Substitute, Open Approach            |

## ICD-10-PCS<sup>4</sup> Description

### Tricuspid

|         |  |
|---------|--|
| 02NJ0ZZ | Release Tricuspid Valve, Open Approach   |
| 02QJ0ZZ | Repair Tricuspid Valve, Open Approach  |
| 02RJ07Z | Replacement of Tricuspid Valve with Autologous Tissue Substitute, Open Approach    |
| 02RJ0KZ | Replacement of Tricuspid Valve with Nonautologous Tissue Substitute, Open Approach |
| 02RJ0JZ | Replacement of Tricuspid Valve with Synthetic Substitute, Open Approach            |
| 02RJ08Z | Replacement of Tricuspid Valve with Zooplastic Tissue, Open Approach               |
| 02UJ07Z | Supplement Tricuspid Valve with Autologous Tissue Substitute, Open Approach        |
| 02UJ0KZ | Supplement Tricuspid Valve with Nonautologous Tissue Substitute, Open Approach     |
| 02UJ0JZ | Supplement Tricuspid Valve with Synthetic Substitute, Open Approach                |
| 02UJ08Z | Supplement Tricuspid Valve with Zooplastic Tissue, Open Approach                   |

**For detailed information regarding coding and reimbursement,  
please contact the dedicated Edwards Reimbursement Hotline:  
(303) 524-3854 or [edwards@rpihotline.com](mailto:edwards@rpihotline.com)**

#### References

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2. For all Medicare payments for physicians, the multiple procedure reduction rule may apply. Consult with coding and billing staff, and payer policy for further guidance. National average Medicare payment is calculated using the Conversion Factor of \$34.8931 per the Medicare Physician Fee Schedule for Calendar Year 2021 Final Rule Update issued December 28, 2020. National average is based on factors such as geography, teaching vs. non-teaching hospital, rural vs. urban area, etc. and your payment may be different based on these factors. This payment will differ for commercial payers. Payments are effective January 1, 2021 through December 31, 2021.
3. Centers for Medicare & Medicaid Services. FY2021 Inpatient Prospective Payment System (IPPS) Correction Notice issued December 01, 2020. Payments are effective October 1, 2020 through September 30, 2021.
4. International Classification of Diseases, 10th Revision, Clinical Modification 2021 ICD-10-CM and PCS Expert for hospitals, Volume 1, 2 and 3.

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