

## LeMaitre Vascular Reimbursement Guide

Coding and reimbursement guidelines are provided for informational purposes only. This information does not constitute reimbursement or legal advice, and LeMaitre Vascular makes no representation or warranty regarding this information or its completeness, accuracy or timeliness. Laws, regulations and payer policies concerning coding and reimbursement are complex and change frequently, and service providers are responsible for all decisions relating to coding and reimbursement submissions. Accordingly, providers should review all current coding authorities (e.g., CPT® Guidelines, HCPCS, ICD-9-CM, ICD-10-CM), be familiar with local medical policies and practices, and verify your patients' insurance coverage. Proper billing code(s) selection is based on a patient's medical condition(s) and medical record documentation.

RESTOREFLOW® VASCULAR ALLOGRAFTS						
CPT® Code	CPT® Description	ICD-10-CM Code	ICD-10-CM Description	MS-DRG	APC	C-code
36818	Arteriovenous anastomosis, open; by upper arm cephalic vein transposition	1. 051D0AY 2. 051D07Y 3. 051D09Y 4. 051D0KY 5. 051D0JY 6.051F0AY 7. 051F07Y 8. 051F09Y 9. 051F0KY 10. 051F0JY	1. Bypass Right Cephalic Vein to Upper Vein with Autologous Arterial Tissue, Open Approach 2. Bypass Right Cephalic Vein to Upper Vein with Autologous Tissue Substitute, Open Approach 3. Bypass Right Cephalic Vein to Upper Vein with Autologous Venous Tissue, Open Approach 4. Bypass Right Cephalic Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach 5. Bypass Right Cephalic Vein to Upper Vein with Synthetic Substitute, Open Approach 6. Bypass Left Cephalic Vein to Upper Vein with Autologous Arterial Tissue, Open Approach 7. Bypass Left Cephalic Vein to Upper Vein with Autologous Tissue Substitute, Open Approach 8. Bypass Left Cephalic Vein to Upper Vein with Autologous Venous Tissue, Open Approach 9. Bypass Left Cephalic Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach 10. Bypass Left Cephalic Vein to Upper Vein with Synthetic Substitute, Open Approach	682		
36819	Arteriovenous anastomosis, open; by upper arm basilic vein transposition	1. 051B0AY 2. 051B07Y 3. 051B09Y 4. 051B0KY 5. 051B0JY 6.051C0AY 7. 051C07Y 8. 051C09Y 9. 051C0KY 10. 051C0JY	1. Bypass Right Basilic Vein to Upper Vein with Autologous Arterial Tissue, Open Approach 2. Bypass Right Basilic Vein to Upper Vein with Autologous Tissue Substitute, Open Approach 3. Bypass Right Basilic Vein to Upper Vein with Autologous Venous Tissue, Open Approach 4. Bypass Right Basilic Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach 5. Bypass Right Basilic Vein to Upper Vein with Synthetic Substitute, Open Approach 6. Bypass Left Basilic Vein to Upper Vein with Autologous Arterial Tissue, Open Approach 7. Bypass Left Basilic Vein to Upper Vein with Autologous Tissue Substitute, Open Approach 8. Bypass Left Basilic Vein to Upper Vein with Autologous Venous Tissue, Open Approach 9. Bypass Left Basilic Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach 10. Bypass Left Basilic Vein to Upper Vein with Synthetic Substitute, Open Approach	683		
36820	Arteriovenous anastomosis, open; by forearm vein transposition	1. 051D0AY 2. 051D07Y 3. 051D09Y 4. 051D0KY 5. 051D0JY 6.051F0AY 7. 051F07Y 8. 051F09Y 9. 051F0KY 10. 051F0JY	1. Bypass Right Cephalic Vein to Upper Vein with Autologous Arterial Tissue, Open Approach 2. Bypass Right Cephalic Vein to Upper Vein with Autologous Tissue Substitute, Open Approach 3. Bypass Right Cephalic Vein to Upper Vein with Autologous Venous Tissue, Open Approach 4. Bypass Right Cephalic Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach 5. Bypass Right Cephalic Vein to Upper Vein with Synthetic Substitute, Open Approach 6. Bypass Left Cephalic Vein to Upper Vein with Autologous Arterial Tissue, Open Approach 7. Bypass Left Cephalic Vein to Upper Vein with Autologous Tissue Substitute, Open Approach 8. Bypass Left Cephalic Vein to Upper Vein with Autologous Venous Tissue, Open Approach 9. Bypass Left Cephalic Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach 10. Bypass Left Cephalic Vein to Upper Vein with Synthetic Substitute, Open Approach	684		

36821	Arteriovenous anastomosis, open; direct, any site (eg, Cimino type) (separate procedure)	N/A	Codes will vary depending on blood vessels included in the procedure.			
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36825	Creation of arteriovenous fistula by other than direct arteriovenous anastomosis (separate procedure); autogenous graft	1. 03150AD 2. 031509D 3. 03150AF 4. 031509F 5. 03160AD 6. 031609D 7. 03160AF 8. 031609F  9. 03170AD 10. 031709D 11. 03170AF 12. 031709F 13. 03180AD 14. 031809D 15. 03180AF 16. 031809F  17. 031B0AF 18. 031B09F 19. 031C0AF 20. 031C09F  21. 03130AD 22. 031309D 23. 03130AF 24. 031309F 25. 03140AD 26. 031409D	1. Bypass Right Axillary Artery to Upper Arm Vein with Autologous Arterial Tissue, Open Approach 2. Bypass Right Axillary Artery to Upper Arm Vein with Autologous Venous Tissue, Open Approach 3. Bypass Right Axillary Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach 4. Bypass Right Axillary Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach 5. Bypass Left Axillary Artery to Upper Arm Vein with Autologous Arterial Tissue, Open Approach 6. Bypass Left Axillary Artery to Upper Arm Vein with Autologous Venous Tissue, Open Approach 7. Bypass Left Axillary Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach 8. Bypass Left Axillary Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach  9. Bypass Right Brachial Artery to Upper Arm Vein with Autologous Arterial Tissue, Open Approach 10. Bypass Right Brachial Artery to Upper Arm Vein with Autologous Venous Tissue, Open Approach 11. Bypass Right Brachial Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach 12. Bypass Right Brachial Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach 13. Bypass Left Brachial Artery to Upper Arm Vein with Autologous Arterial Tissue, Open Approach 14. Bypass Left Brachial Artery to Upper Arm Vein with Autologous Venous Tissue, Open Approach 15. Bypass Left Brachial Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach 16. Bypass Left Brachial Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach  17. Bypass Right Radial Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach 18. Bypass Right Radial Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach 19. Bypass Left Radial Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach 20. Bypass Left Radial Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach  21. Bypass Right Subclavian Artery to Upper Arm Vein with Autologous Arterial Tissue, Open Approach 22. Bypass Right Subclavian Artery to Upper Arm Vein with Autologous Venous Tissue, Open Approach 23. Bypass Right Subclavian Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach 24. Bypass Right Subclavian Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach 25. Bypass Left Subclavian Artery to Upper Arm Vein with Autologous Arterial Tissue, Open Approach 26. Bypass Left Subclavian Artery to Upper Arm Vein with Autologous Venous Tissue, Open Approach			
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	27. 03140AF 28. 031409F  29. 03190AF 30. 031909F 31. 031A0AF 32. 031A09F  33. 041K0AS 34. 041K09S 35. 041K4AS 36. 041K49S 37. 041L0AS 38. 041L09S 39. 041L4AS 40. 041L49S  41. 041M0AS 42. 041M09S 43. 041M4AS 44. 041M49S 45. 041N0AS 46. 041N09S 47. 041N4AS 48. 041N49S	27. Bypass Left Subclavian Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach 28. Bypass Left Subclavian Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach  29. Bypass Right Ulnar Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach 30. Bypass Right Ulnar Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach 31. Bypass Left Ulnar Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach 32. Bypass Left Ulnar Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach  33. Bypass Right Femoral Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach 34. Bypass Right Femoral Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach 35. Bypass Right Femoral Artery to Lower Extremity Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach 36. Bypass Right Femoral Artery to Lower Extremity Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach 37. Bypass Left Femoral Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach 38. Bypass Left Femoral Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach 39. Bypass Left Femoral Artery to Lower Extremity Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach 40. Bypass Left Femoral Artery to Lower Extremity Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach  41. Bypass Right Popliteal Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach 42. Bypass Right Popliteal Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach 43. Bypass Right Popliteal Artery to Lower Extremity Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach 44. Bypass Right Popliteal Artery to Lower Extremity Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach 45. Bypass Left Popliteal Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach 46. Bypass Left Popliteal Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach 47. Bypass Left Popliteal Artery to Lower Extremity Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach 48. Bypass Left Popliteal Artery to Lower Extremity Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach			
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36830	<b>Creation of arteriovenous fistula by other than direct arteriovenous anastomosis (separate procedure); nonautogenous graft (eg, biological collagen, thermoplastic graft)</b>	1. 03150KD 2. 03150JD 3. 03150KF 4. 03150JF 5. 03160KD 6. 03160JD 7. 03160KF 8. 03160JF  9. 03170KD 10. 03170JD 11. 03170KF 12. 03170JF 13. 03180KD 14. 03180JD 15. 03180KF 16. 03180JF  17. 031B0KF 18. 031B0JF 19. 031C0KF 20. 031C0JF  21. 03130KD 22. 03130JD 23. 03130KF 24. 03130JF 25. 03140KD	1. Bypass Right Axillary Artery to Upper Arm Vein with Nonautologous Tissue Substitute, Open Approach 2. Bypass Right Axillary Artery to Upper Arm Vein with Synthetic Substitute, Open Approach 3. Bypass Right Axillary Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach 4. Bypass Right Axillary Artery to Lower Arm Vein with Synthetic Substitute, Open Approach 5. Bypass Left Axillary Artery to Upper Arm Vein with Nonautologous Tissue Substitute, Open Approach 6. Bypass Left Axillary Artery to Upper Arm Vein with Synthetic Substitute, Open Approach 7. Bypass Left Axillary Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach 8. Bypass Left Axillary Artery to Lower Arm Vein with Synthetic Substitute, Open Approach  9. Bypass Right Brachial Artery to Upper Arm Vein with Nonautologous Tissue Substitute, Open Approach 10. Bypass Right Brachial Artery to Upper Arm Vein with Synthetic Substitute, Open Approach 11. Bypass Right Brachial Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach 12. Bypass Right Brachial Artery to Lower Arm Vein with Synthetic Substitute, Open Approach 13. Bypass Left Brachial Artery to Upper Arm Vein with Nonautologous Tissue Substitute, Open Approach 14. Bypass Left Brachial Artery to Upper Arm Vein with Synthetic Substitute, Open Approach 15. Bypass Left Brachial Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach 16. Bypass Left Brachial Artery to Lower Arm Vein with Synthetic Substitute, Open Approach  17. Bypass Right Radial Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach 18. Bypass Right Radial Artery to Lower Arm Vein with Synthetic Substitute, Open Approach 19. Bypass Left Radial Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach 20. Bypass Left Radial Artery to Lower Arm Vein with Synthetic Substitute, Open Approach  21. Bypass Right Subclavian Artery to Upper Arm Vein with Nonautologous Tissue Substitute, Open Approach 22. Bypass Right Subclavian Artery to Upper Arm Vein with Synthetic Substitute, Open Approach 23. Bypass Right Subclavian Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach 24. Bypass Right Subclavian Artery to Lower Arm Vein with Synthetic Substitute, Open Approach 25. Bypass Left Subclavian Artery to Upper Arm Vein with Nonautologous Tissue Substitute, Open Approach			
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	<p>26. 03140JD 27. 03140KF 28. 03140JF</p> <p>29. 03190KF 30. 03190JF 31. 031A0KF 32. 031A0JF</p> <p>33. 041K0KS 34. 041K0JS 35. 041K4KS 36. 041K4JS 37. 041L0KS 38. 041L0JS 39. 041L4KS 40. 041L4JS</p> <p>41. 041M0KS 42. 041M0JS 43. 041M4KS 44. 041M4JS 45. 041N0KS 46. 041N0JS 47. 041N4KS 48. 041N4JS</p>	<p>26. Bypass Left Subclavian Artery to Upper Arm Vein with Synthetic Substitute, Open Approach 27. Bypass Left Subclavian Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach 28. Bypass Left Subclavian Artery to Lower Arm Vein with Synthetic Substitute, Open Approach</p> <p>29. Bypass Right Ulnar Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach 30. Bypass Right Ulnar Artery to Lower Arm Vein with Synthetic Substitute, Open Approach 31. Bypass Left Ulnar Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach 32. Bypass Left Ulnar Artery to Lower Arm Vein with Synthetic Substitute, Open Approach</p> <p>33. Bypass Right Femoral Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach 34. Bypass Right Femoral Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach 35. Bypass Right Femoral Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach 36. Bypass Right Femoral Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach 37. Bypass Left Femoral Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach 38. Bypass Left Femoral Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach 39. Bypass Left Femoral Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach 40. Bypass Left Femoral Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach</p> <p>41. Bypass Right Popliteal Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach 42. Bypass Right Popliteal Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach 43. Bypass Right Popliteal Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach 44. Bypass Right Popliteal Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach 45. Bypass Left Popliteal Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach 46. Bypass Left Popliteal Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach 47. Bypass Left Popliteal Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach 48. Bypass Left Popliteal Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach</p>			
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36831	thrombectomy, open, arteriovenous fistula without revision, autogenous or nonautogenous dialysis graft (separate procedure)	<i>Upper Extremity Arteries</i> 1. 03C50Z6 2. 03C50ZZ 3. 03C53Z6 4. 03C53ZZ  5. 03C60Z6 6. 03C60ZZ 7. 03C63Z6 8. 03C63ZZ  9. 03C70Z6 10. 03C70ZZ 11. 03C73Z6 12. 03C73ZZ  13. 03C80Z6 14. 03C80ZZ 15. 03C83Z6 16. 03C83ZZ  17. 03C90Z6 18. 03C90ZZ 19. 03C93Z6 20. 03C93ZZ  21. 03CA0Z6	<i>Upper Extremity Arteries</i> 1. Extirpation of Matter from Right Axillary Artery, Bifurcation, Open Approach 2. Extirpation of Matter from Right Axillary Artery, Open Approach 3. Extirpation of Matter from Right Axillary Artery, Bifurcation, Percutaneous Approach 4. Extirpation of Matter from Right Axillary Artery, Percutaneous Approach  5. Extirpation of Matter from Left Axillary Artery, Bifurcation, Open Approach 6. Extirpation of Matter from Left Axillary Artery, Open Approach 7. Extirpation of Matter from Left Axillary Artery, Bifurcation, Percutaneous Approach 8. Extirpation of Matter from Left Axillary Artery, Percutaneous Approach  9. Extirpation of Matter from Right Brachial Artery, Bifurcation, Open Approach 10. Extirpation of Matter from Right Brachial Artery, Open Approach 11. Extirpation of Matter from Right Brachial Artery, Bifurcation, Percutaneous Approach 12. Extirpation of Matter from Right Brachial Artery, Percutaneous Approach  13. Extirpation of Matter from Left Brachial Artery, Bifurcation, Open Approach 14. Extirpation of Matter from Left Brachial Artery, Open Approach 15. Extirpation of Matter from Left Brachial Artery, Bifurcation, Percutaneous Approach 16. Extirpation of Matter from Left Brachial Artery, Percutaneous Approach  17. Extirpation of Matter from Right Ulnar Artery, Bifurcation, Open Approach 18. Extirpation of Matter from Right Ulnar Artery, Open Approach 19. Extirpation of Matter from Right Ulnar Artery, Bifurcation, Percutaneous Approach 20. Extirpation of Matter from Right Ulnar Artery, Percutaneous Approach  21. Extirpation of Matter from Left Ulnar Artery, Bifurcation, Open Approach			
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22. 03CA0ZZ	22. Extirpation of Matter from Left Ulnar Artery, Open Approach
23. 03CA3Z6	23. Extirpation of Matter from Left Ulnar Artery, Bifurcation, Percutaneous Approach
24. 03CA3ZZ	24. Extirpation of Matter from Left Ulnar Artery, Percutaneous Approach
25. 03CB0Z6	25. Extirpation of Matter from Right Radial, Bifurcation, Open Approach
26. 03CB0ZZ	26. Extirpation of Matter from Right Radial, Open Approach
27. 03CB3Z6	27. Extirpation of Matter from Right Radial Artery, Bifurcation, Percutaneous Approach
28. 03CB3ZZ	28. Extirpation of Matter from Right Radial Artery, Percutaneous Approach
29. 03CC0Z6	29. Extirpation of Matter from Left Radial, Bifurcation, Open Approach
30. 03CC0ZZ	30. Extirpation of Matter from Left Radial, Open Approach
31. 03CC3Z6	31. Extirpation of Matter from Left Radial Artery, Bifurcation, Percutaneous Approach
32. 03CC3ZZ	32. Extirpation of Matter from Left Radial Artery, Percutaneous Approach
33. 03CY0Z6	33. Extirpation of Matter from Upper Artery, Bifurcation, Open Approach
34. 03CY0ZZ	34. Extirpation of Matter from Upper Artery, Open Approach
35. 03CY3Z6	35. Extirpation of Matter from Upper Artery, Bifurcation, Percutaneous Approach
36. 03CY3ZZ	36. Extirpation of Matter from Upper Artery, Percutaneous Approach
<i>Upper Extremity Veins</i>	<i>Upper Extremity Veins</i>
37. 05C70ZZ	37. Extirpation of Matter from Right Axillary Vein, Open Approach
38. 05C73ZZ	38. Extirpation of Matter from Right Axillary Vein, Percutaneous Approach
39. 05C80ZZ	39. Extirpation of Matter from Left Axillary Vein, Open Approach
40. 05C83ZZ	40. Extirpation of Matter from Left Axillary Vein, Percutaneous Approach
41. 05C90ZZ	41. Extirpation of Matter from Right Brachial Vein, Open Approach
42. 05C93ZZ	42. Extirpation of Matter from Right Brachial Vein, Percutaneous Approach

43. 05CA0ZZ	43. Extirpation of Matter from Left Brachial Vein, Open Approach
44. 05CA3ZZ	44. Extirpation of Matter from Left Brachial Vein, Percutaneous Approach
45. 05CB0ZZ	45. Extirpation of Matter from Right Basilic Vein, Open Approach
46. 05CB3ZZ	46. Extirpation of Matter from Right Basilic Vein, Percutaneous Approach
47. 05CC0ZZ	47. Extirpation of Matter from Left Basilic Vein, Open Approach
48. 05CC3ZZ	48. Extirpation of Matter from Left Basilic Vein, Percutaneous Approach
49. 05CD0ZZ	49. Extirpation of Matter from Right Cephalic Vein, Open Approach
50. 05CD3ZZ	50. Extirpation of Matter from Right Cephalic Vein, Percutaneous Approach
51. 05CF0ZZ	51. Extirpation of Matter from Left Cephalic Vein, Open Approach
52. 05CF3ZZ	52. Extirpation of Matter from Left Cephalic Vein, Percutaneous Approach
53. 05CY0ZZ	53. Extirpation of Matter from Upper Vein, Open Approach
54. 05CY3ZZ	54. Extirpation of Matter from Upper Vein, Percutaneous Approach
<i>Lower Extremity Arteries</i>	<i>Lower Extremity Arteries</i>
55. 04CC0Z6	55. Extirpation of Matter from Right Common Iliac Artery, Bifurcation, Open Approach
56. 04CC0ZZ	56. Extirpation of Matter from Right Common Iliac Artery, Open Approach
57. 04CC3Z6	57. Extirpation of Matter from Right Common Iliac Artery, Bifurcation, Percutaneous Approach
58. 04CC3ZZ	58. Extirpation of Matter from Right Common Iliac Artery, Percutaneous Approach
59. 04CD0Z6	59. Extirpation of Matter from Left Common Iliac Artery, Bifurcation, Open Approach
60. 04CD0ZZ	60. Extirpation of Matter from Left Common Iliac Artery, Open Approach
61. 04CD3Z6	61. Extirpation of Matter from Left Common Iliac Artery, Bifurcation, Percutaneous Approach
62. 04CD3ZZ	62. Extirpation of Matter from Left Common Iliac Artery, Percutaneous Approach

63. 04CE0Z6	63. Extirpation of Matter from Right Internal Iliac Artery, Bifurcation, Open Approach
64. 04CE0ZZ	64. Extirpation of Matter from Right Internal Iliac Artery, Open Approach
65. 04CE3Z6	65. Extirpation of Matter from Right Internal Iliac Artery, Bifurcation, Percutaneous Approach
66. 04CE3ZZ	66. Extirpation of Matter from Right Internal Iliac Artery, Percutaneous Approach
67. 04CF0Z6	67. Extirpation of Matter from Left Internal Iliac Artery, Bifurcation, Open Approach
68. 04CF0ZZ	68. Extirpation of Matter from Left Internal Iliac Artery, Open Approach
69. 04CF3Z6	69. Extirpation of Matter from Left Internal Iliac Artery, Bifurcation, Percutaneous Approach
70. 04CF3ZZ	70. Extirpation of Matter from Left Internal Iliac Artery, Percutaneous Approach
71. 04CH0Z6	71. Extirpation of Matter from Right External Iliac Artery, Bifurcation, Open Approach
72. 04CH0ZZ	72. Extirpation of Matter from Right External Iliac Artery, Open Approach
73. 04CH3Z6	73. Extirpation of Matter from Right External Iliac Artery, Bifurcation, Percutaneous Approach
74. 04CH3ZZ	74. Extirpation of Matter from Right External Iliac Artery, Percutaneous Approach
75. 04CJ0Z6	75. Extirpation of Matter from Left External Iliac Artery, Bifurcation, Open Approach
76. 04CJ0ZZ	76. Extirpation of Matter from Left External Iliac Artery, Open Approach
77. 04CJ3Z6	77. Extirpation of Matter from Left External Iliac Artery, Bifurcation, Percutaneous Approach
78. 04CJ3ZZ	78. Extirpation of Matter from Left External Iliac Artery, Percutaneous Approach
79. 04CK0Z6	79. Extirpation of Matter from Right Femoral Artery, Bifurcation, Open Approach
80. 04CK0ZZ	80. Extirpation of Matter from Right Femoral Artery, Open Approach
81. 04CK3Z6	81. Extirpation of Matter from Right Femoral Artery, Bifurcation, Percutaneous Approach
82. 04CK3ZZ	82. Extirpation of Matter from Right Femoral Artery, Percutaneous Approach
83. 04CLOZ6	83. Extirpation of Matter from Left Femoral Artery, Bifurcation, Open Approach
84. 04CLOZZ	84. Extirpation of Matter from Left Femoral Artery, Open Approach

85. 04CL3Z6	85. Extirpation of Matter from Left Femoral Artery, Bifurcation, Percutaneous Approach
86. 04CL3ZZ	86. Extirpation of Matter from Left Femoral Artery, Percutaneous Approach
87. 04CM0Z6	87. Extirpation of Matter from Right Popliteal Artery, Bifurcation, Open Approach
88. 04CM0ZZ	88. Extirpation of Matter from Right Popliteal Artery, Open Approach
89. 04CM3Z6	89. Extirpation of Matter from Right Popliteal Artery, Bifurcation, Percutaneous Approach
90. 04CM3ZZ	90. Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach
91. 04CN0Z6	91. Extirpation of Matter from Left Popliteal Artery, Bifurcation, Open Approach
92. 04CN0ZZ	92. Extirpation of Matter from Left Popliteal Artery, Open Approach
93. 04CN3Z6	93. Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach
94. 04CN3ZZ	94. Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach
95. 04CP0Z6	95. Extirpation of Matter from Right Anterior Tibial Artery, Bifurcation, Open Approach
96. 04CP0ZZ	96. Extirpation of Matter from Right Anterior Tibial Artery, Open Approach
97. 04CP3Z6	97. Extirpation of Matter from Right Anterior Tibial Artery, Bifurcation, Percutaneous Approach
98. 04CP3ZZ	98. Extirpation of Matter from Right Anterior Tibial Artery, Percutaneous Approach
99. 04CQ0Z6	99. Extirpation of Matter from Left Anterior Tibial Artery, Bifurcation, Open Approach
100. 04CQ0ZZ	100. Extirpation of Matter from Left Anterior Tibial Artery, Open Approach
101. 04CQ3Z6	101. Extirpation of Matter from Left Anterior Tibial Artery, Bifurcation, Percutaneous Approach
102. 04CQ3ZZ	102. Extirpation of Matter from Left Anterior Tibial Artery, Percutaneous Approach
103. 04CR0Z6	103. Extirpation of Matter from Right Posterior Tibial Artery, Bifurcation, Open Approach
104. 04CR0ZZ	104. Extirpation of Matter from Right Posterior Tibial Artery, Open Approach
105. 04CR3Z6	105. Extirpation of Matter from Right Posterior Tibial Artery, Bifurcation, Percutaneous Approach
106. 04CR3ZZ	106. Extirpation of Matter from Right Posterior Tibial Artery, Percutaneous Approach
107. 04CS0Z6	107. Extirpation of Matter from Left Posterior Tibial Artery, Bifurcation, Open Approach
108. 04CS0ZZ	108. Extirpation of Matter from Left Posterior Tibial Artery, Open Approach
109. 04CS3Z6	109. Extirpation of Matter from Left Posterior Tibial Artery, Bifurcation, Percutaneous Approach
110. 04CS3ZZ	110. Extirpation of Matter from Left Posterior Tibial Artery, Percutaneous Approach
111. 04CT0Z6	111. Extirpation of Matter from Right Peroneal Artery, Bifurcation, Open Approach
112. 04CT0ZZ	112. Extirpation of Matter from Right Peroneal Artery, Open Approach
113. 04CT3Z6	113. Extirpation of Matter from Right Peroneal Artery, Bifurcation, Percutaneous Approach
114. 04CT3ZZ	114. Extirpation of Matter from Right Peroneal Artery, Percutaneous Approach
115. 04CU0Z6	115. Extirpation of Matter from Left Peroneal Artery, Bifurcation, Open Approach
116. 04CU0ZZ	116. Extirpation of Matter from Left Peroneal Artery, Open Approach
117. 04CU3Z6	117. Extirpation of Matter from Left Peroneal Artery, Bifurcation, Percutaneous Approach
118. 04CU3ZZ	118. Extirpation of Matter from Left Peroneal Artery, Percutaneous Approach
119. 04CY0Z6	119. Extirpation of Matter from Lower Artery, Bifurcation, Open Approach
120. 04CY0ZZ	120. Extirpation of Matter from Lower Artery, Open Approach
121. 04CY3Z6	121. Extirpation of Matter from Lower Artery, Bifurcation, Percutaneous Approach
122. 04CY3ZZ	122. Extirpation of Matter from Lower Artery, Percutaneous Approach
<i>Lower Extremity Veins</i>	<i>Lower Extremity Veins</i>
123. 06CC0ZZ	123. Extirpation of Matter from Right Common Iliac Vein, Open Approach
124. 06CC3ZZ	124. Extirpation of Matter from Right Common Iliac Vein, Percutaneous Approach

	125. 06CD0ZZ	125. Extirpation of Matter from Left Common Iliac Vein, Open Approach			
	126. 06CD3ZZ	126. Extirpation of Matter from Left Common Iliac Vein, Percutaneous Approach			
	127. 06CF0ZZ	127. Extirpation of Matter from Right External Iliac Vein, Open Approach			
	128. 06CF3ZZ	128. Extirpation of Matter from Right External Iliac Vein, Percutaneous Approach			
	129. 06CG0ZZ	129. Extirpation of Matter from Left External Iliac Vein, Open Approach			
	130. 06CG3ZZ	130. Extirpation of Matter from Left External Iliac Vein, Percutaneous Approach			
	131. 06CM0ZZ	131. Extirpation of Matter from Right Femoral Vein, Open Approach			
	132. 06CM3ZZ	132. Extirpation of Matter from Right Femoral Vein, Percutaneous Approach			
	133. 06CN0ZZ	133. Extirpation of Matter from Left Femoral Vein, Open Approach			
	134. 06CN3ZZ	134. Extirpation of Matter from Left Femoral Vein, Percutaneous Approach			
	135. 06CP0ZZ	135. Extirpation of Matter from Right Saphenous Vein, Open Approach			
	136. 06CP3ZZ	136. Extirpation of Matter from Right Saphenous Vein, Percutaneous Approach			
	137. 06CQ0ZZ	137. Extirpation of Matter from Left Saphenous Vein, Open Approach			
	138. 06CQ3ZZ	138. Extirpation of Matter from Left Saphenous Vein, Percutaneous Approach			
	139. 06CY0ZZ	139. Extirpation of Matter from Lower Vein, Open Approach			
	140. 06CY3ZZ	140. Extirpation of Matter from Lower Vein, Percutaneous Approach			

36832	Revision, open, arteriovenous fistula; without thrombectomy, autogenous or nonautogenous dialysis graft (separate procedure)	<i>Balloon angioplasty</i> 1. 03730Z6 2. 03730ZZ 3. 03740Z6 4. 03740ZZ 5. 03750Z6 6. 03750ZZ 7. 03760Z6 8. 03760ZZ 9. 03770Z6 10. 03770ZZ 11. 03780Z6 12. 03780ZZ 13. 03790Z6 14. 03790ZZ 15. 037A0Z6 16. 037A0ZZ 17. 037B0Z6 18. 037B0ZZ 19. 037C0Z6 20. 037C0ZZ 21. 037Y0Z6 22. 037Y0ZZ  23. 05730ZZ 24. 05740ZZ	<i>Balloon angioplasty</i> 1. Dilation of Right Subclavian Artery, Bifurcation, Open Approach 2. Dilation of Right Subclavian Artery, Open Approach 3. Dilation of Left Subclavian Artery, Bifurcation, Open Approach 4. Dilation of Left Subclavian Artery, Open Approach 5. Dilation of Right Axillary Artery, Bifurcation, Open Approach 6. Dilation of Right Axillary Artery, Open Approach 7. Dilation of Left Axillary Artery, Bifurcation, Open Approach 8. Dilation of Left Axillary Artery, Open Approach 9. Dilation of Right Brachial Artery, Bifurcation, Open Approach 10. Dilation of Right Brachial Artery, Open Approach 11. Dilation of Left Brachial Artery, Bifurcation, Open Approach 12. Dilation of Left Brachial Artery, Open Approach 13. Dilation of Right Ulnar Artery, Bifurcation, Open Approach 14. Dilation of Right Ulnar Artery, Open Approach 15. Dilation of Left Ulnar Artery, Bifurcation, Open Approach 16. Dilation of Left Ulnar Artery, Open Approach 17. Dilation of Right Radial Artery, Bifurcation, Open Approach 18. Dilation of Right Radial Artery, Open Approach 19. Dilation of Left Radial Artery, Bifurcation, Open Approach 20. Dilation of Left Radial Artery, Open Approach 21. Dilation of Upper Artery, Bifurcation, Open Approach 22. Dilation of Upper Artery, Open Approach  23. Dilation of Right Innominate Vein, Open Approach 24. Dilation of Left Innominate Vein, Open Approach			
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25. 0575OZZ	25. Dilation of Right Subclavian Vein, Open Approach
26. 0576OZZ	26. Dilation of Left Subclavian Vein, Open Approach
27. 0577OZZ	27. Dilation of Right Axillary Vein, Open Approach
28. 0578OZZ	28. Dilation of Left Axillary Vein, Open Approach
29. 0579OZZ	29. Dilation of Right Brachial Vein, Open Approach
30. 057AOZZ	30. Dilation of Left Brachial Vein, Open Approach
31. 057BOZZ	31. Dilation of Right Basilic Vein, Open Approach
32. 057COZZ	32. Dilation of Left Basilic Vein, Open Approach
33. 057DOZZ	33. Dilation of Right Cephalic Vein, Open Approach
34. 057FOZZ	34. Dilation of Left Cephalic Vein, Open Approach
35. 057YOZZ	35. Dilation of Upper Vein, Open Approach
36. 047COZ6	36. Dilation of Right Common Iliac Artery, Bifurcation, Open Approach
37. 047COZZ	37. Dilation of Right Common Iliac Artery, Open Approach
38. 047DOZ6	38. Dilation of Left Common Iliac Artery, Bifurcation, Open Approach
39. 047DOZZ	39. Dilation of Left Common Iliac Artery, Open Approach
40. 047EOZ6	40. Dilation of Right Internal Iliac Artery, Bifurcation, Open Approach
41. 047EOZZ	41. Dilation of Right Internal Iliac Artery, Open Approach
42. 047FOZ6	42. Dilation of Left Internal Iliac Artery, Bifurcation, Open Approach
43. 047FOZZ	43. Dilation of Left Internal Iliac Artery, Open Approach
44. 047HOZ6	44. Dilation of Right External Iliac Artery, Bifurcation, Open Approach
45. 047HOZZ	45. Dilation of Right External Iliac Artery, Open Approach
46. 047JOZ6	46. Dilation of Left External Iliac Artery, Bifurcation, Open Approach
47. 047JOZZ	47. Dilation of Left External Iliac Artery, Open Approach
48. 047KOZ6	48. Dilation of Right Femoral Artery, Bifurcation, Open Approach
48. 047KOZZ	49. Dilation of Right Femoral Artery, Open Approach
50. 047LOZ6	50. Dilation of Left Femoral Artery, Bifurcation, Open Approach
51. 047LOZZ	51. Dilation of Left Femoral Artery, Open Approach
52. 047MOZ6	52. Dilation of Right Popliteal Artery, Bifurcation, Open Approach
53. 047MOZZ	53. Dilation of Right Popliteal Artery, Open Approach
54. 047NOZ6	54. Dilation of Left Popliteal Artery, Bifurcation, Open Approach
55. 047NOZZ	55. Dilation of Left Popliteal Artery, Open Approach
56. 047POZ6	56. Dilation of Right Anterior Tibial Artery, Bifurcation, Open Approach
57. 047POZZ	57. Dilation of Right Anterior Tibial Artery, Open Approach
58. 047QOZ6	58. Dilation of Left Anterior Tibial Artery, Bifurcation, Open Approach
59. 047QOZZ	59. Dilation of Left Anterior Tibial Artery, Open Approach
60. 047ROZ6	60. Dilation of Right Posterior Tibial Artery, Bifurcation, Open Approach
61. 047ROZZ	61. Dilation of Right Posterior Tibial Artery, Open Approach
62. 047SOZ6	62. Dilation of Left Posterior Tibial Artery, Bifurcation, Open Approach

63. 047S0ZZ	63. Dilation of Left Posterior Tibial Artery, Open Approach			
64. 047T0Z6	64. Dilation of Right Peroneal Artery, Bifurcation, Open Approach			
65. 047T0ZZ	65. Dilation of Right Peroneal Artery, Open Approach			
66. 047U0Z6	66. Dilation of Left Peroneal Artery, Bifurcation, Open Approach			
67. 047U0ZZ	67. Dilation of Left Peroneal Artery, Open Approach			
68. 047Y0Z6	68. Dilation of Lower Artery, Bifurcation, Open Approach			
69. 047Y0ZZ	69. Dilation of Lower Artery, Open Approach			
70. 067C0ZZ	70. Dilation of Right Common Iliac Vein, Open Approach			
71. 067D0ZZ	71. Dilation of Left Common Iliac Vein, Open Approach			
72. 067F0ZZ	72. Dilation of Right External Iliac Vein, Open Approach			
73. 067G0ZZ	73. Dilation of Left External Iliac Vein, Open Approach			
74. 067M0ZZ	74. Dilation of Right Femoral Vein, Open Approach			
75. 067N0ZZ	75. Dilation of Left Femoral Vein, Open Approach			
76. 067P0ZZ	76. Dilation of Right Saphenous Vein, Open Approach			
77. 067Q0ZZ	77. Dilation of Left Saphenous Vein, Open Approach			
78. 067Y0ZZ	78. Dilation of Lower Vein, Open Approach			
<i>Other revision</i>	<i>Other revision</i>			
79. 03WY07Z	79. Revision of Autologous Tissue Substitute in Upper Artery, Open Approach			
80. 03WY0JZ	80. Revision of Synthetic Substitute in Upper Artery, Open Approach			
81. 05WY07Z	81. Revision of Autologous Tissue Substitute in Upper Vein, Open Approach			
82. 05WY0JZ	82. Revision of Synthetic Substitute in Upper Vein, Open Approach			
83. 04WY07Z	83. Revision of Autologous Tissue Substitute in Lower Artery, Open Approach			
84. 04WY0JZ	84. Revision of Synthetic Substitute in Lower Artery, Open Approach			
85. 06WY07Z	81. Revision of Autologous Tissue Substitute in Lower Vein, Open Approach			
86. 06WY0JZ	82. Revision of Synthetic Substitute in Lower Vein, Open Approach			



36833	with thrombectomy, autogenous or nonautogenous dialysis graft (separate procedure)	REVISION <i>Balloon Angioplasty</i> 1. 03730Z6 2. 03730ZZ 3. 03740Z6 4. 03740ZZ 5. 03750Z6 6. 03750ZZ 7. 03760Z6 8. 03760ZZ 9. 03770Z6 10. 03770ZZ 11. 03780Z6 12. 03780ZZ 13. 03790Z6 14. 03790ZZ 15. 037A0Z6 16. 037A0ZZ 17. 037B0Z6 18. 037B0ZZ 19. 037C0Z6 20. 037C0ZZ 21. 037Y0Z6 22. 037Y0ZZ 23. 05730ZZ 24. 05740ZZ 25. 05750ZZ	REVISION <i>Balloon angioplasty</i> 1. Dilation of Right Subclavian Artery, Bifurcation, Open Approach 2. Dilation of Right Subclavian Artery, Open Approach 3. Dilation of Left Subclavian Artery, Bifurcation, Open Approach 4. Dilation of Left Subclavian Artery, Open Approach 5. Dilation of Right Axillary Artery, Bifurcation, Open Approach 6. Dilation of Right Axillary Artery, Open Approach 7. Dilation of Left Axillary Artery, Bifurcation, Open Approach 8. Dilation of Left Axillary Artery, Open Approach 9. Dilation of Right Brachial Artery, Bifurcation, Open Approach 10. Dilation of Right Brachial Artery, Open Approach 11. Dilation of Left Brachial Artery, Bifurcation, Open Approach 12. Dilation of Left Brachial Artery, Open Approach 13. Dilation of Right Ulnar Artery, Bifurcation, Open Approach 14. Dilation of Right Ulnar Artery, Open Approach 15. Dilation of Left Ulnar Artery, Bifurcation, Open Approach 16. Dilation of Left Ulnar Artery, Open Approach 17. Dilation of Right Radial Artery, Bifurcation, Open Approach 18. Dilation of Right Radial Artery, Open Approach 19. Dilation of Left Radial Artery, Bifurcation, Open Approach 20. Dilation of Left Radial Artery, Open Approach 21. Dilation of Upper Artery, Bifurcation, Open Approach 22. Dilation of Upper Artery, Open Approach 23. Dilation of Right Innominate Vein, Open Approach 24. Dilation of Left Innominate Vein, Open Approach 25. Dilation of Right Subclavian Vein, Open Approach			
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26. 05760ZZ	26. Dilation of Left Subclavian Vein, Open Approach
27. 05770ZZ	27. Dilation of Right Axillary Vein, Open Approach
28. 05780ZZ	28. Dilation of Left Axillary Vein, Open Approach
29. 05790ZZ	29. Dilation of Right Brachial Vein, Open Approach
30. 057A0ZZ	30. Dilation of Left Brachial Vein, Open Approach
31. 057B0ZZ	31. Dilation of Right Basilic Vein, Open Approach
32. 057C0ZZ	32. Dilation of Left Basilic Vein, Open Approach
33. 057D0ZZ	33. Dilation of Right Cephalic Vein, Open Approach
34. 057F0ZZ	34. Dilation of Left Cephalic Vein, Open Approach
35. 057Y0ZZ	35. Dilation of Upper Vein, Open Approach
36. 047C0Z6	36. Dilation of Right Common Iliac Artery, Bifurcation, Open Approach
37. 047C0ZZ	37. Dilation of Right Common Iliac Artery, Open Approach
38. 047D0Z6	38. Dilation of Left Common Iliac Artery, Bifurcation, Open Approach
39. 047D0ZZ	39. Dilation of Left Common Iliac Artery, Open Approach
40. 047E0Z6	40. Dilation of Right Internal Iliac Artery, Bifurcation, Open Approach
41. 047E0ZZ	41. Dilation of Right Internal Iliac Artery, Open Approach
42. 047F0Z6	42. Dilation of Left Internal Iliac Artery, Bifurcation, Open Approach
43. 047F0ZZ	43. Dilation of Left Internal Iliac Artery, Open Approach
44. 047H0Z6	44. Dilation of Right External Iliac Artery, Bifurcation, Open Approach
45. 047H0ZZ	45. Dilation of Right External Iliac Artery, Open Approach
46. 047J0Z6	46. Dilation of Left External Iliac Artery, Bifurcation, Open Approach
47. 047J0ZZ	47. Dilation of Left External Iliac Artery, Open Approach
48. 047K0Z6	48. Dilation of Right Femoral Artery, Bifurcation, Open Approach
48. 047K0ZZ	49. Dilation of Right Femoral Artery, Open Approach
50. 047L0Z6	50. Dilation of Left Femoral Artery, Bifurcation, Open Approach
51. 047L0ZZ	51. Dilation of Left Femoral Artery, Open Approach
52. 047M0Z6	52. Dilation of Right Popliteal Artery, Bifurcation, Open Approach
53. 047M0ZZ	53. Dilation of Right Popliteal Artery, Open Approach
54. 047N0Z6	54. Dilation of Left Popliteal Artery, Bifurcation, Open Approach
55. 047N0ZZ	55. Dilation of Left Popliteal Artery, Open Approach
56. 047P0Z6	56. Dilation of Right Anterior Tibial Artery, Bifurcation, Open Approach
57. 047P0ZZ	57. Dilation of Right Anterior Tibial Artery, Open Approach
58. 047Q0Z6	58. Dilation of Left Anterior Tibial Artery, Bifurcation, Open Approach
59. 047Q0ZZ	59. Dilation of Left Anterior Tibial Artery, Open Approach
60. 047R0Z6	60. Dilation of Right Posterior Tibial Artery, Bifurcation, Open Approach
61. 047R0ZZ	61. Dilation of Right Posterior Tibial Artery, Open Approach
62. 047S0Z6	62. Dilation of Left Posterior Tibial Artery, Bifurcation, Open Approach
63. 047S0ZZ	63. Dilation of Left Posterior Tibial Artery, Open Approach
64. 047T0Z6	64. Dilation of Right Peroneal Artery, Bifurcation, Open Approach
65. 047T0ZZ	65. Dilation of Right Peroneal Artery, Open Approach
66. 047U0Z6	66. Dilation of Left Peroneal Artery, Bifurcation, Open Approach
67. 047U0ZZ	67. Dilation of Left Peroneal Artery, Open Approach
68. 047Y0Z6	68. Dilation of Lower Artery, Bifurcation, Open Approach
69. 047Y0ZZ	69. Dilation of Lower Artery, Open Approach
70. 067C0ZZ	70. Dilation of Right Common Iliac Vein, Open Approach
71. 067D0ZZ	71. Dilation of Left Common Iliac Vein, Open Approach
72. 067F0ZZ	72. Dilation of Right External Iliac Vein, Open Approach
73. 067G0ZZ	73. Dilation of Left External Iliac Vein, Open Approach
74. 067M0ZZ	74. Dilation of Right Femoral Vein, Open Approach
75. 067N0ZZ	75. Dilation of Left Femoral Vein, Open Approach
76. 067P0ZZ	76. Dilation of Right Saphenous Vein, Open Approach
77. 067Q0ZZ	77. Dilation of Left Saphenous Vein, Open Approach
78. 067Y0ZZ	78. Dilation of Lower Vein, Open Approach

35184	Repair, congenital arteriovenous fistula; extremities	<i>Upper Extremity Arteries</i> 1. 03Q50ZZ 2. 03Q53ZZ 3. 03Q54ZZ  4. 03Q60ZZ 5. 03Q603Z 6. 03Q64ZZ  7. 03Q70ZZ 8. 03Q73ZZ 9. 03Q74ZZ  10. 03Q80ZZ 11. 03Q83ZZ 12. 03Q84ZZ  13. 03QD0ZZ 14. 03QD3ZZ 15. 03QD4ZZ  16. 03QF0ZZ 17. 03QF3ZZ 18. 03QF4ZZ  19. 03QB0ZZ	<i>Upper Extremity Arteries</i> 1. Repair Right Axillary Artery, Open Approach 2. Repair Right Axillary Artery, Percutaneous Approach 3. Repair Right Axillary Artery, Percutaneous Endoscopic Approach  4. Repair Left Axillary Artery, Open Approach 5. Repair Left Axillary Artery, Percutaneous Approach 6. Repair Left Axillary Artery, Percutaneous Endoscopic Approach  7. Repair Right Brachial Artery, Open Approach 8. Repair Right Brachial Artery, Percutaneous Approach 9. Repair Right Brachial Artery, Percutaneous Endoscopic Approach  10. Repair Left Brachial Artery, Open Approach 11. Repair Left Brachial Artery, Percutaneous Approach 12. Repair Left Brachial Artery, Percutaneous Endoscopic Approach  13. Repair Right Hand Artery, Open Approach 14. Repair Right Hand Artery, Percutaneous Approach 15. Repair Right Hand Artery, Percutaneous Endoscopic Approach  16. Repair Left Hand Artery, Open Approach 17. Repair Left Hand Artery, Percutaneous Approach 18. Repair Left Hand Artery, Percutaneous Endoscopic Approach  19. Repair Right Radial Artery, Open Approach			
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20. 03QB3ZZ	20. Repair Right Radial Artery, Percutaneous Approach
21. 03QB4ZZ	21. Repair Right Radial Artery, Percutaneous Endoscopic Approach
22. 03QC0ZZ	22. Repair Left Radial Artery, Open Approach
23. 03QC3ZZ	23. Repair Left Radial Artery, Percutaneous Approach
24. 03QC4ZZ	24. Repair Left Radial Artery, Percutaneous Endoscopic Approach
25. 03Q90ZZ	25. Repair Right Ulnar Artery, Open Approach
26. 03Q93ZZ	26. Repair Right Ulnar Artery, Percutaneous Approach
27. 03Q94ZZ	27. Repair Right Ulnar Artery, Percutaneous Endoscopic Approach
28. 03QA0ZZ	28. Repair Left Ulnar Artery, Open Approach
29. 03QA3ZZ	29. Repair Left Ulnar Artery, Percutaneous Approach
30. 03QA4ZZ	30. Repair Left Ulnar Artery, Percutaneous Endoscopic Approach
31. 03QY0ZZ	31. Repair of Upper Artery, Open Approach
32. 03QY3ZZ	32. Repair of Upper Artery, Percutaneous Approach
33. 03QY4ZZ	33. Repair of Upper Artery, Percutaneous Endoscopic Approach
<i>Lower Extremity Arteries</i>	<i>Lower Extremity Arteries</i>
34. 04QC0ZZ	34. Repair Right Common Iliac Artery, Open Approach
35. 04QC3ZZ	35. Repair Right Common Iliac Artery, Percutaneous Approach
36. 04QC4ZZ	36. Repair Right Common Iliac Artery, Percutaneous Endoscopic Approach
37. 04QD0ZZ	37. Repair Left Common Iliac Artery, Open Approach
38. 04QD3ZZ	38. Repair Left Common Iliac Artery, Percutaneous Approach
39. 04QD4ZZ	39. Repair Left Common Iliac Artery, Percutaneous Endoscopic Approach

40. 04QH0ZZ	40. Repair Right External Iliac Artery, Open Approach
41. 04QH3ZZ	41. Repair Right External Iliac Artery, Percutaneous Approach
42. 04QH4ZZ	42. Repair Right External Iliac Artery, Percutaneous Endoscopic Approach
43. 04QJ0ZZ	43. Repair Left External Iliac Artery, Open Approach
44. 04QJ3ZZ	44. Repair Left External Iliac Artery, Percutaneous Approach
45. 04QJ4ZZ	45. Repair Left External Iliac Artery, Percutaneous Endoscopic Approach
46. 04QE0ZZ	46. Repair Right Internal Iliac Artery, Open Approach
47. 04QE3ZZ	47. Repair Right Internal Iliac Artery, Percutaneous Approach
48. 04QE4ZZ	48. Repair Right Internal Iliac Artery, Percutaneous Endoscopic Approach
49. 04QF0ZZ	49. Repair Left Internal Iliac Artery, Open Approach
50. 04QF3ZZ	50. Repair Left Internal Iliac Artery, Percutaneous Approach
51. 04QF4ZZ	51. Repair Left Internal Iliac Artery, Percutaneous Endoscopic Approach
52. 04QK0ZZ	52. Repair Right Femoral Artery, Open Approach
53. 04QK3ZZ	53. Repair Right Femoral Artery, Percutaneous Approach
54. 04QK4ZZ	54. Repair Right Femoral Artery, Percutaneous Endoscopic Approach
55. 04QL0ZZ	55. Repair Left Femoral Artery, Open Approach
56. 04QL3ZZ	56. Repair Left Femoral Artery, Percutaneous Approach
57. 04QL4ZZ	57. Repair Left Femoral Artery, Percutaneous Endoscopic Approach
58. 04QM0ZZ	58. Repair Right Popliteal Artery, Open Approach
59. 04QM3ZZ	59. Repair Right Popliteal Artery, Percutaneous Approach

60. 04QM4ZZ	60. Repair Right Popliteal Artery, Percutaneous Endoscopic Approach
61. 04QN0ZZ	61. Repair Left Popliteal Artery, Open Approach
62. 04QN3ZZ	62. Repair Left Popliteal Artery, Percutaneous Approach
63. 04QN4ZZ	63. Repair Left Popliteal Artery, Percutaneous Endoscopic Approach
64. 04QP0ZZ	64. Repair Right Anterior Tibial Artery, Open Approach
65. 04QP3ZZ	65. Repair Right Anterior Tibial Artery, Percutaneous Approach
66. 04QP4ZZ	66. Repair Right Anterior Tibial Artery, Percutaneous Endoscopic Approach
67. 04QQ0ZZ	67. Repair Left Anterior Tibial Artery, Open Approach
68. 04QQ3ZZ	68. Repair Left Anterior Tibial Artery, Percutaneous Approach
69. 04QQ4ZZ	69. Repair Left Anterior Tibial Artery, Percutaneous Endoscopic Approach
70. 04QR0ZZ	70. Repair Right Posterior Tibial Artery, Open Approach
71. 04QR3ZZ	71. Repair Right Posterior Tibial Artery, Percutaneous Approach
72. 04QR4ZZ	72. Repair Right Posterior Tibial Artery, Percutaneous Endoscopic Approach
73. 04QS0ZZ	73. Repair Left Posterior Tibial Artery, Open Approach
74. 04QS3ZZ	74. Repair Left Posterior Tibial Artery, Percutaneous Approach
75. 04QS4ZZ	75. Repair Left Posterior Tibial Artery, Percutaneous Endoscopic Approach
76. 04QV0ZZ	76. Repair Right Foot Artery, Open Approach
77. 04QV3ZZ	77. Repair Right Foot Artery, Percutaneous Approach
78. 04QV4ZZ	78. Repair Right Foot Artery, Percutaneous Endoscopic Approach
79. 04QW0ZZ	79. Repair Left Foot Artery, Open Approach

80. 04QW3ZZ	80. Repair Left Foot Artery, Percutaneous Approach
81. 04QW4ZZ	81. Repair Left Foot Artery, Percutaneous Endoscopic Approach
82. 04QY0ZZ	82. Repair of Lower Artery, Open Approach
83. 04QY3ZZ	83. Repair of Lower Artery, Percutaneous Approach
84. 04QY4ZZ	84. Repair of Lower Artery, Percutaneous Endoscopic Approach
<i>Upper Extremity Veins</i>	<i>Upper Extremity Veins</i>
85. 05Q70ZZ	85. Repair Right Axillary Vein, Open Approach
86. 05Q73ZZ	86. Repair Right Axillary Vein, Percutaneous Approach
87. 05Q74ZZ	87. Repair Right Axillary Vein, Percutaneous Endoscopic Approach
88. 05Q80ZZ	88. Repair Left Axillary Vein, Open Approach
89. 05Q83ZZ	89. Repair Left Axillary Vein, Percutaneous Approach
90. 05Q84ZZ	90. Repair Left Axillary Vein, Percutaneous Endoscopic Approach
91. 05Q90ZZ	91. Repair Right Brachial Vein, Open Approach
92. 05Q93ZZ	92. Repair Right Brachial Vein, Percutaneous Approach
93. 05Q94ZZ	93. Repair Right Brachial Vein, Percutaneous Endoscopic Approach
94. 05QA0ZZ	94. Repair Left Brachial Vein, Open Approach
95. 05QA3ZZ	95. Repair Left Brachial Vein, Percutaneous Approach
96. 05QA4ZZ	96. Repair Left Brachial Vein, Percutaneous Endoscopic Approach
97. 05QB0ZZ	97. Repair Right Basilic Vein, Open Approach
98. 05QB3ZZ	98. Repair Right Basilic Vein, Percutaneous Approach
99. 05QB4ZZ	99. Repair Right Basilic Vein, Percutaneous Endoscopic Approach
100. 05QC0ZZ	100. Repair Left Basilic Vein, Open Approach
101. 05QC3ZZ	101. Repair Left Basilic Vein, Percutaneous Approach
102. 05QC4ZZ	102. Repair Left Basilic Vein, Percutaneous Endoscopic Approach
103. 05QD0ZZ	103. Repair Right Cephalic Vein, Open Approach
104. 05QD3ZZ	104. Repair Right Cephalic Vein, Percutaneous Approach
105. 05QD4ZZ	105. Repair Right Cephalic Vein, Percutaneous Endoscopic Approach
106. 05QF0ZZ	106. Repair Left Cephalic Vein, Open Approach
107. 05QF3ZZ	107. Repair Left Cephalic Vein, Percutaneous Approach
108. 05QF4ZZ	108. Repair Left Cephalic Vein, Percutaneous Endoscopic Approach
109. 05QG0ZZ	109. Repair Right Hand Vein, Open Approach
110. 05QG3ZZ	110. Repair Right Hand Vein, Percutaneous Approach
111. 05QG4ZZ	111. Repair Right Hand Vein, Percutaneous Endoscopic Approach
112. 05QH0ZZ	112. Repair Left Hand Vein, Open Approach
113. 05QH3ZZ	113. Repair Left Hand Vein, Percutaneous Approach
114. 05QH4ZZ	114. Repair Left Hand Vein, Percutaneous Endoscopic Approach
115. 05QY0ZZ	115. Repair of Upper Vein Open Approach
116. 05QY3ZZ	116. Repair of Upper Vein Percutaneous Approach
117. 05QY4ZZ	117. Repair of Upper Vein Percutaneous Endoscopic Approach

*Lower**Extremity Veins*

118. 06QC0ZZ  
119. 06QC3ZZ  
120. 06QC4ZZ

121. 06QD0ZZ  
122. 06QD3ZZ  
123. 06QD4ZZ

124. 06QF0ZZ  
125. 06QF3ZZ  
126. 06QF4ZZ

127. 06QG0ZZ  
128. 06QG3ZZ  
129. 06QG4ZZ

130. 06QM0ZZ  
131. 06QM3ZZ  
132. 06QM4ZZ

133. 06QN0ZZ  
134. 06QN3ZZ  
135. 06QN4ZZ

136. 06QP0ZZ  
137. 06QP3ZZ  
138. 06QP4ZZ

*Lower**Extremity Veins*

118. Repair Right Common Iliac Vein, Open Approach  
119. Repair Right Common Iliac Vein, Percutaneous Approach  
120. Repair Right Common Iliac Vein, Percutaneous Endoscopic Approach

121. Repair Left Common Iliac Vein, Open Approach  
122. Repair Left Common Iliac Vein, Percutaneous Approach  
123. Repair Left Common Iliac Vein, Percutaneous Endoscopic Approach

124. Repair Right External Iliac Vein, Open Approach  
125. Repair Right External Iliac Vein, Percutaneous Approach  
126. Repair Right External Iliac Vein, Percutaneous Endoscopic Approach

127. Repair Left External Iliac Vein, Open Approach  
128. Repair Left External Iliac Vein, Percutaneous Approach  
129. Repair Left External Iliac Vein, Percutaneous Endoscopic Approach

130. Repair Right Femoral Vein, Open Approach  
131. Repair Right Femoral Vein, Percutaneous Approach  
132. Repair Right Femoral Vein, Percutaneous Endoscopic Approach

133. Repair Left Femoral Vein, Open Approach  
134. Repair Left Femoral Vein, Percutaneous Approach  
135. Repair Left Femoral Vein, Percutaneous Endoscopic Approach

136. Repair Right Greater Saphenous Vein, Open Approach  
137. Repair Right Greater Saphenous Vein, Percutaneous Approach  
138. Repair Right Greater Saphenous Vein, Percutaneous Endoscopic Approach



	139. 06QQ0ZZ	139. Repair Left Greater Saphenous Vein, Open Approach			
	140. 06QQ3ZZ	140. Repair Left Greater Saphenous Vein, Percutaneous Approach			
	141. 06QQ4ZZ	141. Repair Left Greater Saphenous Vein, Percutaneous Endoscopic Approach			
	142. 06QR0ZZ	142. Repair Right Lesser Saphenous Vein, Open Approach			
	143. 06QR3ZZ	143. Repair Right Lesser Saphenous Vein, Percutaneous Approach			
	144. 06QR4ZZ	144. Repair Right Lesser Saphenous Vein, Percutaneous Endoscopic Approach			
	145. 06QS0ZZ	145. Repair Left Lesser Saphenous Vein, Open Approach			
	146. 06QS3ZZ	146. Repair Left Lesser Saphenous Vein, Percutaneous Approach			
	147. 06QS4ZZ	147. Repair Left Lesser Saphenous Vein, Percutaneous Endoscopic Approach			
	148. 06QT0ZZ	148. Repair Right Foot Vein, Open Approach			
	149. 06QT3ZZ	149. Repair Right Foot Vein, Percutaneous Approach			
	150. 06QT4ZZ	150. Repair Right Foot Vein, Percutaneous Endoscopic Approach			
	151. 06QV0ZZ	151. Repair Left Foot Vein, Open Approach			
	152. 06QV3ZZ	152. Repair Left Foot Vein, Percutaneous Approach			
	153. 06QV4ZZ	153. Repair Left Foot Vein, Percutaneous Endoscopic Approach			
	154. 06QY0ZZ	154. Repair of Lower Vein Open Approach			
	155. 06QY3ZZ	155. Repair of Lower Vein Percutaneous Approach			
	156. 06QY4ZZ	156. Repair of Lower Vein Percutaneous Endoscopic Approach			

35190	Repair, acquired or traumatic arteriovenous fistula; extremities	<i>Upper Extremity Arteries</i> 1. 03Q50ZZ 2. 03Q53ZZ 3. 03Q54ZZ  4. 03Q60ZZ 5. 03Q603Z 6. 03Q64ZZ  7. 03Q70ZZ 8. 03Q73ZZ 9. 03Q74ZZ  10. 03Q80ZZ 11. 03Q83ZZ 12. 03Q84ZZ  13. 03QD0ZZ 14. 03QD3ZZ 15. 03QD4ZZ  16. 03QF0ZZ 17. 03QF3ZZ 18. 03QF4ZZ  19. 03QB0ZZ	<i>Upper Extremity Arteries</i> 1. Repair Right Axillary Artery, Open Approach 2. Repair Right Axillary Artery, Percutaneous Approach 3. Repair Right Axillary Artery, Percutaneous Endoscopic Approach  4. Repair Left Axillary Artery, Open Approach 5. Repair Left Axillary Artery, Percutaneous Approach 6. Repair Left Axillary Artery, Percutaneous Endoscopic Approach  7. Repair Right Brachial Artery, Open Approach 8. Repair Right Brachial Artery, Percutaneous Approach 9. Repair Right Brachial Artery, Percutaneous Endoscopic Approach  10. Repair Left Brachial Artery, Open Approach 11. Repair Left Brachial Artery, Percutaneous Approach 12. Repair Left Brachial Artery, Percutaneous Endoscopic Approach  13. Repair Right Hand Artery, Open Approach 14. Repair Right Hand Artery, Percutaneous Approach 15. Repair Right Hand Artery, Percutaneous Endoscopic Approach  16. Repair Left Hand Artery, Open Approach 17. Repair Left Hand Artery, Percutaneous Approach 18. Repair Left Hand Artery, Percutaneous Endoscopic Approach  19. Repair Right Radial Artery, Open Approach			
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20. 03QB3ZZ	20. Repair Right Radial Artery, Percutaneous Approach
21. 03QB4ZZ	21. Repair Right Radial Artery, Percutaneous Endoscopic Approach
22. 03QC0ZZ	22. Repair Left Radial Artery, Open Approach
23. 03QC3ZZ	23. Repair Left Radial Artery, Percutaneous Approach
24. 03QC4ZZ	24. Repair Left Radial Artery, Percutaneous Endoscopic Approach
25. 03Q90ZZ	25. Repair Right Ulnar Artery, Open Approach
26. 03Q93ZZ	26. Repair Right Ulnar Artery, Percutaneous Approach
27. 03Q94ZZ	27. Repair Right Ulnar Artery, Percutaneous Endoscopic Approach
28. 03QA0ZZ	28. Repair Left Ulnar Artery, Open Approach
29. 03QA3ZZ	29. Repair Left Ulnar Artery, Percutaneous Approach
30. 03QA4ZZ	30. Repair Left Ulnar Artery, Percutaneous Endoscopic Approach
31. 03QY0ZZ	31. Repair of Upper Artery, Open Approach
32. 03QY3ZZ	32. Repair of Upper Artery, Percutaneous Approach
33. 03QY4ZZ	33. Repair of Upper Artery, Percutaneous Endoscopic Approach
<i>Lower Extremity Arteries</i>	<i>Lower Extremity Arteries</i>
34. 04QC0ZZ	34. Repair Right Common Iliac Artery, Open Approach
35. 04QC3ZZ	35. Repair Right Common Iliac Artery, Percutaneous Approach
36. 04QC4ZZ	36. Repair Right Common Iliac Artery, Percutaneous Endoscopic Approach
37. 04QD0ZZ	37. Repair Left Common Iliac Artery, Open Approach
38. 04QD3ZZ	38. Repair Left Common Iliac Artery, Percutaneous Approach
39. 04QD4ZZ	39. Repair Left Common Iliac Artery, Percutaneous Endoscopic Approach

40. 04QH0ZZ	40. Repair Right External Iliac Artery, Open Approach
41. 04QH3ZZ	41. Repair Right External Iliac Artery, Percutaneous Approach
42. 04QH4ZZ	42. Repair Right External Iliac Artery, Percutaneous Endoscopic Approach
43. 04QJ0ZZ	43. Repair Left External Iliac Artery, Open Approach
44. 04QJ3ZZ	44. Repair Left External Iliac Artery, Percutaneous Approach
45. 04QJ4ZZ	45. Repair Left External Iliac Artery, Percutaneous Endoscopic Approach
46. 04QE0ZZ	46. Repair Right Internal Iliac Artery, Open Approach
47. 04QE3ZZ	47. Repair Right Internal Iliac Artery, Percutaneous Approach
48. 04QE4ZZ	48. Repair Right Internal Iliac Artery, Percutaneous Endoscopic Approach
49. 04QF0ZZ	49. Repair Left Internal Iliac Artery, Open Approach
50. 04QF3ZZ	50. Repair Left Internal Iliac Artery, Percutaneous Approach
51. 04QF4ZZ	51. Repair Left Internal Iliac Artery, Percutaneous Endoscopic Approach
52. 04QK0ZZ	52. Repair Right Femoral Artery, Open Approach
53. 04QK3ZZ	53. Repair Right Femoral Artery, Percutaneous Approach
54. 04QK4ZZ	54. Repair Right Femoral Artery, Percutaneous Endoscopic Approach
55. 04QL0ZZ	55. Repair Left Femoral Artery, Open Approach
56. 04QL3ZZ	56. Repair Left Femoral Artery, Percutaneous Approach
57. 04QL4ZZ	57. Repair Left Femoral Artery, Percutaneous Endoscopic Approach
58. 04QM0ZZ	58. Repair Right Popliteal Artery, Open Approach
59. 04QM3ZZ	59. Repair Right Popliteal Artery, Percutaneous Approach

60. 04QM4ZZ	60. Repair Right Popliteal Artery, Percutaneous Endoscopic Approach
61. 04QN0ZZ	61. Repair Left Popliteal Artery, Open Approach
62. 04QN3ZZ	62. Repair Left Popliteal Artery, Percutaneous Approach
63. 04QN4ZZ	63. Repair Left Popliteal Artery, Percutaneous Endoscopic Approach
64. 04QP0ZZ	64. Repair Right Anterior Tibial Artery, Open Approach
65. 04QP3ZZ	65. Repair Right Anterior Tibial Artery, Percutaneous Approach
66. 04QP4ZZ	66. Repair Right Anterior Tibial Artery, Percutaneous Endoscopic Approach
67. 04QQ0ZZ	67. Repair Left Anterior Tibial Artery, Open Approach
68. 04QQ3ZZ	68. Repair Left Anterior Tibial Artery, Percutaneous Approach
69. 04QQ4ZZ	69. Repair Left Anterior Tibial Artery, Percutaneous Endoscopic Approach
70. 04QR0ZZ	70. Repair Right Posterior Tibial Artery, Open Approach
71. 04QR3ZZ	71. Repair Right Posterior Tibial Artery, Percutaneous Approach
72. 04QR4ZZ	72. Repair Right Posterior Tibial Artery, Percutaneous Endoscopic Approach
73. 04QS0ZZ	73. Repair Left Posterior Tibial Artery, Open Approach
74. 04QS3ZZ	74. Repair Left Posterior Tibial Artery, Percutaneous Approach
75. 04QS4ZZ	75. Repair Left Posterior Tibial Artery, Percutaneous Endoscopic Approach
76. 04QV0ZZ	76. Repair Right Foot Artery, Open Approach
77. 04QV3ZZ	77. Repair Right Foot Artery, Percutaneous Approach
78. 04QV4ZZ	78. Repair Right Foot Artery, Percutaneous Endoscopic Approach
79. 04QW0ZZ	79. Repair Left Foot Artery, Open Approach

80. 04QW3ZZ	80. Repair Left Foot Artery, Percutaneous Approach
81. 04QW4ZZ	81. Repair Left Foot Artery, Percutaneous Endoscopic Approach
82. 04QY0ZZ	82. Repair of Lower Artery, Open Approach
83. 04QY3ZZ	83. Repair of Lower Artery, Percutaneous Approach
84. 04QY4ZZ	84. Repair of Lower Artery, Percutaneous Endoscopic Approach
<i>Upper Extremity Veins</i>	<i>Upper Extremity Veins</i>
85. 05Q70ZZ	85. Repair Right Axillary Vein, Open Approach
86. 05Q73ZZ	86. Repair Right Axillary Vein, Percutaneous Approach
87. 05Q74ZZ	87. Repair Right Axillary Vein, Percutaneous Endoscopic Approach
88. 05Q80ZZ	88. Repair Left Axillary Vein, Open Approach
89. 05Q83ZZ	89. Repair Left Axillary Vein, Percutaneous Approach
90. 05Q84ZZ	90. Repair Left Axillary Vein, Percutaneous Endoscopic Approach
91. 05Q90ZZ	91. Repair Right Brachial Vein, Open Approach
92. 05Q93ZZ	92. Repair Right Brachial Vein, Percutaneous Approach
93. 05Q94ZZ	93. Repair Right Brachial Vein, Percutaneous Endoscopic Approach
94. 05QA0ZZ	94. Repair Left Brachial Vein, Open Approach
95. 05QA3ZZ	95. Repair Left Brachial Vein, Percutaneous Approach
96. 05QA4ZZ	96. Repair Left Brachial Vein, Percutaneous Endoscopic Approach
97. 05QB0ZZ	97. Repair Right Basilic Vein, Open Approach
98. 05QB3ZZ	98. Repair Right Basilic Vein, Percutaneous Approach
99. 05QB4ZZ	99. Repair Right Basilic Vein, Percutaneous Endoscopic Approach
100. 05QC0ZZ	100. Repair Left Basilic Vein, Open Approach
101. 05QC3ZZ	101. Repair Left Basilic Vein, Percutaneous Approach
102. 05QC4ZZ	102. Repair Left Basilic Vein, Percutaneous Endoscopic Approach
103. 05QD0ZZ	103. Repair Right Cephalic Vein, Open Approach
104. 05QD3ZZ	104. Repair Right Cephalic Vein, Percutaneous Approach
105. 05QD4ZZ	105. Repair Right Cephalic Vein, Percutaneous Endoscopic Approach
106. 05QF0ZZ	106. Repair Left Cephalic Vein, Open Approach
107. 05QF3ZZ	107. Repair Left Cephalic Vein, Percutaneous Approach
108. 05QF4ZZ	108. Repair Left Cephalic Vein, Percutaneous Endoscopic Approach
109. 05QG0ZZ	109. Repair Right Hand Vein, Open Approach
110. 05QG3ZZ	110. Repair Right Hand Vein, Percutaneous Approach
111. 05QG4ZZ	111. Repair Right Hand Vein, Percutaneous Endoscopic Approach
112. 05QH0ZZ	112. Repair Left Hand Vein, Open Approach
113. 05QH3ZZ	113. Repair Left Hand Vein, Percutaneous Approach
114. 05QH4ZZ	114. Repair Left Hand Vein, Percutaneous Endoscopic Approach
115. 05QY0ZZ	115. Repair of Upper Vein Open Approach
116. 05QY3ZZ	116. Repair of Upper Vein Percutaneous Approach
117. 05QY4ZZ	117. Repair of Upper Vein Percutaneous Endoscopic Approach

*Lower  
Extremity Veins*  
118. 06QC0ZZ  
119. 06QC3ZZ  
120. 06QC4ZZ

121. 06QD0ZZ  
122. 06QD3ZZ  
123. 06QD4ZZ

124. 06QF0ZZ  
125. 06QF3ZZ  
126. 06QF4ZZ

127. 06QG0ZZ  
128. 06QG3ZZ  
129. 06QG4ZZ

130. 06QM0ZZ  
131. 06QM3ZZ  
132. 06QM4ZZ

133. 06QN0ZZ  
134. 06QN3ZZ  
135. 06QN4ZZ

136. 06QP0ZZ  
137. 06QP3ZZ  
138. 06QP4ZZ

*Lower  
Extremity Veins*  
118. Repair Right Common Iliac Vein, Open Approach  
119. Repair Right Common Iliac Vein, Percutaneous Approach  
120. Repair Right Common Iliac Vein, Percutaneous Endoscopic Approach  
  
121. Repair Left Common Iliac Vein, Open Approach  
122. Repair Left Common Iliac Vein, Percutaneous Approach  
123. Repair Left Common Iliac Vein, Percutaneous Endoscopic Approach  
  
124. Repair Right External Iliac Vein, Open Approach  
125. Repair Right External Iliac Vein, Percutaneous Approach  
126. Repair Right External Iliac Vein, Percutaneous Endoscopic Approach  
  
127. Repair Left External Iliac Vein, Open Approach  
128. Repair Left External Iliac Vein, Percutaneous Approach  
129. Repair Left External Iliac Vein, Percutaneous Endoscopic Approach  
  
130. Repair Right Femoral Vein, Open Approach  
131. Repair Right Femoral Vein, Percutaneous Approach  
132. Repair Right Femoral Vein, Percutaneous Endoscopic Approach  
  
133. Repair Left Femoral Vein, Open Approach  
134. Repair Left Femoral Vein, Percutaneous Approach  
135. Repair Left Femoral Vein, Percutaneous Endoscopic Approach  
  
136. Repair Right Greater Saphenous Vein, Open Approach  
137. Repair Right Greater Saphenous Vein, Percutaneous Approach  
138. Repair Right Greater Saphenous Vein, Percutaneous Endoscopic Approach

	139. 06QQ0ZZ	139. Repair Left Greater Saphenous Vein, Open Approach			
	140. 06QQ3ZZ	140. Repair Left Greater Saphenous Vein, Percutaneous Approach			
	141. 06QQ4ZZ	141. Repair Left Greater Saphenous Vein, Percutaneous Endoscopic Approach			
	142. 06QR0ZZ	142. Repair Right Lesser Saphenous Vein, Open Approach			
	143. 06QR3ZZ	143. Repair Right Lesser Saphenous Vein, Percutaneous Approach			
	144. 06QR4ZZ	144. Repair Right Lesser Saphenous Vein, Percutaneous Endoscopic Approach			
	145. 06QS0ZZ	145. Repair Left Lesser Saphenous Vein, Open Approach			
	146. 06QS3ZZ	146. Repair Left Lesser Saphenous Vein, Percutaneous Approach			
	147. 06QS4ZZ	147. Repair Left Lesser Saphenous Vein, Percutaneous Endoscopic Approach			
	148. 06QT0ZZ	148. Repair Right Foot Vein, Open Approach			
	149. 06QT3ZZ	149. Repair Right Foot Vein, Percutaneous Approach			
	150. 06QT4ZZ	150. Repair Right Foot Vein, Percutaneous Endoscopic Approach			
	151. 06QV0ZZ	151. Repair Left Foot Vein, Open Approach			
	152. 06QV3ZZ	152. Repair Left Foot Vein, Percutaneous Approach			
	153. 06QV4ZZ	153. Repair Left Foot Vein, Percutaneous Endoscopic Approach			
	154. 06QY0ZZ	154. Repair of Lower Vein Open Approach			
	155. 06QY3ZZ	155. Repair of Lower Vein Percutaneous Approach			
	156. 06QY4ZZ	156. Repair of Lower Vein Percutaneous Endoscopic Approach			



35206	Repair blood vessel, direct; upper extremity	<i>Upper Extremity Arteries</i> 1. 03Q50ZZ 2. 03Q53ZZ 3. 03Q54ZZ  4. 03Q60ZZ 5. 03Q603Z 6. 03Q64ZZ  7. 03Q70ZZ 8. 03Q73ZZ 9. 03Q74ZZ  10. 03Q80ZZ 11. 03Q83ZZ 12. 03Q84ZZ  13. 03QD0ZZ 14. 03QD3ZZ 15. 03QD4ZZ  16. 03QF0ZZ 17. 03QF3ZZ 18. 03QF4ZZ  19. 03QB0ZZ	<i>Upper Extremity Arteries</i> 1. Repair Right Axillary Artery, Open Approach 2. Repair Right Axillary Artery, Percutaneous Approach 3. Repair Right Axillary Artery, Percutaneous Endoscopic Approach  4. Repair Left Axillary Artery, Open Approach 5. Repair Left Axillary Artery, Percutaneous Approach 6. Repair Left Axillary Artery, Percutaneous Endoscopic Approach  7. Repair Right Brachial Artery, Open Approach 8. Repair Right Brachial Artery, Percutaneous Approach 9. Repair Right Brachial Artery, Percutaneous Endoscopic Approach  10. Repair Left Brachial Artery, Open Approach 11. Repair Left Brachial Artery, Percutaneous Approach 12. Repair Left Brachial Artery, Percutaneous Endoscopic Approach  13. Repair Right Hand Artery, Open Approach 14. Repair Right Hand Artery, Percutaneous Approach 15. Repair Right Hand Artery, Percutaneous Endoscopic Approach  16. Repair Left Hand Artery, Open Approach 17. Repair Left Hand Artery, Percutaneous Approach 18. Repair Left Hand Artery, Percutaneous Endoscopic Approach  19. Repair Right Radial Artery, Open Approach			
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20. 03QB3ZZ	20. Repair Right Radial Artery, Percutaneous Approach
21. 03QB4ZZ	21. Repair Right Radial Artery, Percutaneous Endoscopic Approach
22. 03QC0ZZ	22. Repair Left Radial Artery, Open Approach
23. 03QC3ZZ	23. Repair Left Radial Artery, Percutaneous Approach
24. 03QC4ZZ	24. Repair Left Radial Artery, Percutaneous Endoscopic Approach
25. 03Q90ZZ	25. Repair Right Ulnar Artery, Open Approach
26. 03Q93ZZ	26. Repair Right Ulnar Artery, Percutaneous Approach
27. 03Q94ZZ	27. Repair Right Ulnar Artery, Percutaneous Endoscopic Approach
28. 03QA0ZZ	28. Repair Left Ulnar Artery, Open Approach
29. 03QA3ZZ	29. Repair Left Ulnar Artery, Percutaneous Approach
30. 03QA4ZZ	30. Repair Left Ulnar Artery, Percutaneous Endoscopic Approach
31. 03QY0ZZ	31. Repair of Upper Artery, Open Approach
32. 03QY3ZZ	32. Repair of Upper Artery, Percutaneous Approach
33. 03QY4ZZ	33. Repair of Upper Artery, Percutaneous Endoscopic Approach
<i>Upper Extremity Veins</i>	<i>Upper Extremity Veins</i>
34. 05Q70ZZ	34. Repair Right Axillary Vein, Open Approach
35. 05Q73ZZ	35. Repair Right Axillary Vein, Percutaneous Approach
36. 05Q74ZZ	36. Repair Right Axillary Vein, Percutaneous Endoscopic Approach
37. 05Q80ZZ	37. Repair Left Axillary Vein, Open Approach
38. 05Q83ZZ	38. Repair Left Axillary Vein, Percutaneous Approach
39. 05Q84ZZ	39. Repair Left Axillary Vein, Percutaneous Endoscopic Approach
40. 05Q90ZZ	40. Repair Right Brachial Vein, Open Approach
41. 05Q93ZZ	41. Repair Right Brachial Vein, Percutaneous Approach
42. 05Q94ZZ	42. Repair Right Brachial Vein, Percutaneous Endoscopic Approach
43. 05QA0ZZ	43. Repair Left Brachial Vein, Open Approach
44. 05QA3ZZ	44. Repair Left Brachial Vein, Percutaneous Approach
45. 05QA4ZZ	45. Repair Left Brachial Vein, Percutaneous Endoscopic Approach
46. 05QB0ZZ	46. Repair Right Basilic Vein, Open Approach
47. 05QB3ZZ	47. Repair Right Basilic Vein, Percutaneous Approach
48. 05QB4ZZ	48. Repair Right Basilic Vein, Percutaneous Endoscopic Approach
49. 05QC0ZZ	49. Repair Left Basilic Vein, Open Approach
50. 05QC3ZZ	50. Repair Left Basilic Vein, Percutaneous Approach

35211	intrathoracic, with bypass	1. 02Q00ZZ 2. 02Q10ZZ 3. 02Q20ZZ 4. 02Q30ZZ 5. 02Q40ZZ 6. 02QR0ZZ 7. 02QQ0ZZ 8. 02QP0ZZ 9. 02QT0ZZ 10. 02QS0ZZ 11. 02QV0ZZ 12. 02QX0ZZ 13. 02QW0ZZ  WITH BYPASS 5A1221Z	1. Repair Coronary Artery, One Artery, Open Approach 2. Repair Coronary Artery, Two Arteries, Open Approach 3. Repair Coronary Artery, Three Arteries, Open Approach 4. Repair Coronary Artery, Four or More Arteries, Open Approach 5. Repair Coronary Vein, Open Approach 6. Repair Left Pulmonary Artery, Open Approach 7. Repair Right Pulmonary Artery, Open Approach 8. Repair Pulmonary Trunk, Open Approach 9. Repair Left Pulmonary Vein, Open Approach 10. Repair Right Pulmonary Vein, Open Approach 11. Repair Superior Vena Cava, Open Approach 12. Repair of Thoracic Aorta, Ascending/Arch, Open Approach 13. Repair of Thoracic Aorta, Descending, Open Approach  WITH BYPASS Performance of Cardiac Output, Continuous			
35216	intrathoracic, without bypass	1. 02Q00ZZ 2. 02Q10ZZ 3. 02Q20ZZ 4. 02Q30ZZ 5. 02Q40ZZ 6. 02QR0ZZ 7. 02QQ0ZZ 8. 02QP0ZZ 9. 02QT0ZZ 10. 02QS0ZZ 11. 02QV0ZZ 12. 02QX0ZZ 13. 02QW0ZZ	1. Repair Coronary Artery, One Artery, Open Approach 2. Repair Coronary Artery, Two Arteries, Open Approach 3. Repair Coronary Artery, Three Arteries, Open Approach 4. Repair Coronary Artery, Four or More Arteries, Open Approach 5. Repair Coronary Vein, Open Approach 6. Repair Left Pulmonary Artery, Open Approach 7. Repair Right Pulmonary Artery, Open Approach 8. Repair Pulmonary Trunk, Open Approach 9. Repair Left Pulmonary Vein, Open Approach 10. Repair Right Pulmonary Vein, Open Approach 11. Repair Superior Vena Cava, Open Approach 12. Repair of Thoracic Aorta, Ascending/Arch, Open Approach 13. Repair of Thoracic Aorta, Descending, Open Approach			
35221	intra-abdominal	1. 04Q00ZZ 2. 04Q10ZZ 3. 04Q70ZZ 4. 04Q80ZZ 5. 04Q60ZZ 6. 04QD0ZZ 7. 04QC0ZZ 8. 04QJ0ZZ 9. 04QH0ZZ 10. 04Q20ZZ	1. Repair Abdominal Aorta, Open Approach 2. Repair Celiac Artery, Open Approach 3. Repair Left Colic Artery, Open Approach 4. Repair Middle Colic Artery, Open Approach 5. Repair Right Colic Artery, Open Approach 6. Repair Left Common Iliac Artery, Open Approach 7. Repair Right Common Iliac Artery, Open Approach 8. Repair Left External Iliac Artery, Open Approach 9. Repair Right External Iliac Artery, Open Approach 10. Repair Gastric Artery, Open Approach			

35226	lower extremity	<ol style="list-style-type: none"> <li>1. 04QQ0ZZ</li> <li>2. 04QP0ZZ</li> <li>3. 04QL0ZZ</li> <li>4. 04QK0ZZ</li> <li>5. 04QW0ZZ</li> <li>6. 04QV0ZZ</li> <li>7. 04QU0ZZ</li> <li>8. 04QT0ZZ</li> <li>9. 04QN0ZZ</li> <li>10. 04QM0ZZ</li> <li>11. 04QS0ZZ</li> <li>12. 04QR0ZZ</li> <li>13. 04QY0ZZ</li>   <li>14. 06QN0ZZ</li> <li>15. 06QM0ZZ</li> <li>16. 06QV0ZZ</li> <li>17. 06QT0ZZ</li> <li>18. 06QY0ZZ</li> <li>19. 06QQ0ZZ</li> <li>20. 06QP0ZZ</li> </ol>	<ol style="list-style-type: none"> <li>1. Repair Left Anterior Tibial Artery, Open Approach</li> <li>2. Repair Right Anterior Tibial Artery, Open Approach</li> <li>3. Repair Left Femoral Artery, Open Approach</li> <li>4. Repair Right Femoral Artery, Open Approach</li> <li>5. Repair Left Foot Artery, Open Approach</li> <li>6. Repair Right Foot Artery, Open Approach</li> <li>7. Repair Left Peroneal Artery, Open Approach</li> <li>8. Repair Right Peroneal Artery, Open Approach</li> <li>9. Repair Left Popliteal Artery, Open Approach</li> <li>10. Repair Right Popliteal Artery, Open Approach</li> <li>11. Repair Left Posterior Tibial Artery, Open Approach</li> <li>12. Repair Right Posterior Tibial Artery, Open Approach</li> <li>13. Repair Lower Artery, Open Approach</li>   <li>14. Repair Left Femoral Vein, Open Approach</li> <li>15. Repair Right Femoral Vein, Open Approach</li> <li>16. Repair Left Foot Vein, Open Approach</li> <li>17. Repair Right Foot Vein, Open Approach</li> <li>18. Repair Lower Vein, Open Approach</li> <li>19. Repair Left Saphenous Vein, Open Approach</li> <li>20. Repair Right Saphenous Vein, Open Approach</li> </ol>			
35231	Repair blood vessel with vein graft; neck	<ol style="list-style-type: none"> <li>1. 03QJ0ZZ</li> <li>2. 03QH0ZZ</li> <li>3. 03QN0ZZ</li> <li>4. 03QM0ZZ</li> <li>5. 03QL0ZZ</li> <li>6. 03QK0ZZ</li> <li>7. 03QV0ZZ</li> <li>8. 03QU0ZZ</li> <li>9. 03QQ0ZZ</li> <li>10. 03QP0ZZ</li> <li>11. 03QY0ZZ</li>   <li>12. 03RJ0ZZ</li> <li>13. 03RH0ZZ</li> <li>14. 03RN0ZZ</li> <li>15. 03RM0ZZ</li> <li>16. 03RL0ZZ</li> <li>17. 03RL0ZZ</li> <li>18. 03RV0ZZ</li> <li>19. 03RU0ZZ</li> <li>20. 03RQ0ZZ</li> <li>21. 03RP0ZZ</li> <li>22. 03RY0ZZ</li> </ol>	<ol style="list-style-type: none"> <li>1. Repair Left Common Carotid Artery, Open Approach</li> <li>2. Repair Right Common Carotid Artery, Open Approach</li> <li>3. Repair Left External Carotid Artery, Open Approach</li> <li>4. Repair Right External Carotid Artery, Open Approach</li> <li>5. Repair Left Internal Carotid Artery, Open Approach</li> <li>6. Repair Right Internal Carotid Artery, Open Approach</li> <li>7. Repair Left Thyroid Artery, Open Approach</li> <li>8. Repair Right Thyroid Artery, Open Approach</li> <li>9. Repair Left Vertebral Artery, Open Approach</li> <li>10. Repair Right Vertebral Artery, Open Approach</li> <li>11. Repair Upper Artery, Open Approach</li>   <li>12. Replacement of Left Common Carotid Artery with Autologous Tissue Substitute, Open Approach</li> <li>13. Replacement of Right Common Carotid Artery with Autologous Tissue Substitute, Open Approach</li> <li>14. Replacement of Left External Carotid Artery with Autologous Tissue Substitute, Open Approach</li> <li>15. Replacement of Right External Carotid Artery with Autologous Tissue Substitute, Open Approach</li> <li>16. Replacement of Left Internal Carotid Artery with Autologous Tissue Substitute, Open Approach</li> <li>17. Replacement of Right Internal Carotid Artery with Autologous Tissue Substitute, Open Approach</li> <li>18. Replacement of Left Thyroid Artery with Autologous Tissue Substitute, Open Approach</li> <li>19. Replacement of Right Thyroid Artery with Autologous Tissue Substitute, Open Approach</li> <li>20. Replacement of Left Vertebral Artery with Autologous Tissue Substitute, Open Approach</li> <li>21. Replacement of Right Vertebral Artery with Autologous Tissue Substitute, Open Approach</li> <li>22. Replacement of Upper Artery with Autologous Tissue Substitute, Open Approach</li> </ol>			

35236	Repair blood vessel with vein graft; upper extremity	<i>Repair</i> 1. 03Q50ZZ 2. 03Q53ZZ 3. 03Q54ZZ  4. 03Q60ZZ 5. 03Q603Z 6. 03Q64ZZ  7. 03Q70ZZ 8. 03Q73ZZ 9. 03Q74ZZ  10. 03Q80ZZ 11. 03Q83ZZ 12. 03Q84ZZ  13. 03QD0ZZ 14. 03QD3ZZ 15. 03QD4ZZ  16. 03QF0ZZ 17. 03QF3ZZ 18. 03QF4ZZ  19. 03QB0ZZ 20. 03QB3ZZ	<i>Repair</i> 1. Repair Right Axillary Artery, Open Approach 2. Repair Right Axillary Artery, Percutaneous Approach 3. Repair Right Axillary Artery, Percutaneous Endoscopic Approach  4. Repair Left Axillary Artery, Open Approach 5. Repair Left Axillary Artery, Percutaneous Approach 6. Repair Left Axillary Artery, Percutaneous Endoscopic Approach  7. Repair Right Brachial Artery, Open Approach 8. Repair Right Brachial Artery, Percutaneous Approach 9. Repair Right Brachial Artery, Percutaneous Endoscopic Approach  10. Repair Left Brachial Artery, Open Approach 11. Repair Left Brachial Artery, Percutaneous Approach 12. Repair Left Brachial Artery, Percutaneous Endoscopic Approach  13. Repair Right Hand Artery, Open Approach 14. Repair Right Hand Artery, Percutaneous Approach 15. Repair Right Hand Artery, Percutaneous Endoscopic Approach  16. Repair Left Hand Artery, Open Approach 17. Repair Left Hand Artery, Percutaneous Approach 18. Repair Left Hand Artery, Percutaneous Endoscopic Approach  19. Repair Right Radial Artery, Open Approach 20. Repair Right Radial Artery, Percutaneous Approach			
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21. 03QB4ZZ	21. Repair Right Radial Artery, Percutaneous Endoscopic Approach
22. 03QC0ZZ	22. Repair Left Radial Artery, Open Approach
23. 03QC3ZZ	23. Repair Left Radial Artery, Percutaneous Approach
24. 03QC4ZZ	24. Repair Left Radial Artery, Percutaneous Endoscopic Approach
25. 03Q90ZZ	25. Repair Right Ulnar Artery, Open Approach
26. 03Q93ZZ	26. Repair Right Ulnar Artery, Percutaneous Approach
27. 03Q94ZZ	27. Repair Right Ulnar Artery, Percutaneous Endoscopic Approach
28. 03QA0ZZ	28. Repair Left Ulnar Artery, Open Approach
29. 03QA3ZZ	29. Repair Left Ulnar Artery, Percutaneous Approach
30. 03QA4ZZ	30. Repair Left Ulnar Artery, Percutaneous Endoscopic Approach
31. 03QY0ZZ	31. Repair of Upper Artery, Open Approach
32. 03QY3ZZ	32. Repair of Upper Artery, Percutaneous Approach
33. 03QY4ZZ	33. Repair of Upper Artery, Percutaneous Endoscopic Approach
34. 05Q70ZZ	34. Repair Right Axillary Vein, Open Approach
35. 05Q73ZZ	35. Repair Right Axillary Vein, Percutaneous Approach
36. 05Q74ZZ	36. Repair Right Axillary Vein, Percutaneous Endoscopic Approach
37. 05Q80ZZ	37. Repair Left Axillary Vein, Open Approach
38. 05Q83ZZ	38. Repair Left Axillary Vein, Percutaneous Approach
39. 05Q84ZZ	39. Repair Left Axillary Vein, Percutaneous Endoscopic Approach
40. 05Q90ZZ	40. Repair Right Brachial Vein, Open Approach

41. 05Q93ZZ	41. Repair Right Brachial Vein, Percutaneous Approach
42. 05Q94ZZ	42. Repair Right Brachial Vein, Percutaneous Endoscopic Approach
43. 05QA0ZZ	43. Repair Left Brachial Vein, Open Approach
44. 05QA3ZZ	44. Repair Left Brachial Vein, Percutaneous Approach
45. 05QA4ZZ	45. Repair Left Brachial Vein, Percutaneous Endoscopic Approach
46. 05QB0ZZ	46. Repair Right Basilic Vein, Open Approach
47. 05QB3ZZ	47. Repair Right Basilic Vein, Percutaneous Approach
48. 05QB4ZZ	48. Repair Right Basilic Vein, Percutaneous Endoscopic Approach
49. 05QC0ZZ	49. Repair Left Basilic Vein, Open Approach
50. 05QC3ZZ	50. Repair Left Basilic Vein, Percutaneous Approach
51. 05QC4ZZ	51. Repair Left Basilic Vein, Percutaneous Endoscopic Approach
52. 05QD0ZZ	52. Repair Right Cephalic Vein, Open Approach
53. 05QD3ZZ	53. Repair Right Cephalic Vein, Percutaneous Approach
54. 05QD4ZZ	54. Repair Right Cephalic Vein, Percutaneous Endoscopic Approach
55. 05QF0ZZ	55. Repair Left Cephalic Vein, Open Approach
56. 05QF3ZZ	56. Repair Left Cephalic Vein, Percutaneous Approach
57. 05QF4ZZ	57. Repair Left Cephalic Vein, Percutaneous Endoscopic Approach
58. 05QG0ZZ	58. Repair Right Hand Vein, Open Approach
59. 05QG3ZZ	59. Repair Right Hand Vein, Percutaneous Approach
60. 05QG4ZZ	60. Repair Right Hand Vein, Percutaneous Endoscopic Approach

61. 05QH0ZZ	61. Repair Left Hand Vein, Open Approach
62. 05QH3ZZ	62. Repair Left Hand Vein, Percutaneous Approach
63. 05QH4ZZ	63. Repair Left Hand Vein, Percutaneous Endoscopic Approach
64. 05QY0ZZ	64. Repair of Upper Vein Open Approach
65. 05QY3ZZ	65. Repair of Upper Vein Percutaneous Approach
66. 05QY4ZZ	66. Repair of Upper Vein Percutaneous Endoscopic Approach
<i>Grafts</i>	<i>Grafts</i>
67. 03U507Z	67. Supplement Right Axillary Artery with Autologous Tissue Substitute, Open Approach
68. 03U537Z	68. Supplement Right Axillary Artery with Autologous Tissue Substitute, Percutaneous Approach
69. 03U547Z	69. Supplement Right Axillary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach
70. 03U607Z	70. Supplement Left Axillary Artery with Autologous Tissue Substitute, Open Approach
71. 03U637Z	71. Supplement Left Axillary Artery with Autologous Tissue Substitute, Percutaneous Approach
72. 03U647Z	72. Supplement Left Axillary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach
73. 03U707Z	73. Supplement Right Brachial Artery with Autologous Tissue Substitute, Open Approach
74. 03U737Z	74. Supplement Right Brachial Artery with Autologous Tissue Substitute, Percutaneous Approach
75. 03U747Z	75. Supplement Right Brachial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach
76. 03U807Z	76. Supplement Left Brachial Artery with Autologous Tissue Substitute, Open Approach
77. 03U837Z	77. Supplement Left Brachial Artery with Autologous Tissue Substitute, Percutaneous Approach
78. 03U847Z	78. Supplement Left Brachial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach
79. 03UD07Z	79. Supplement Right Hand Artery with Autologous Tissue Substitute, Open Approach
80. 03UD37Z	80. Supplement Right Hand Artery with Autologous Tissue Substitute, Percutaneous Approach



81. 03UD47Z	81. Supplement Right Hand Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach
82. 03UF07Z	82. Supplement Left Hand Artery with Autologous Tissue Substitute, Open Approach
83. 03UF37Z	83. Supplement Left Hand Artery with Autologous Tissue Substitute, Percutaneous Approach
84. 03UF47Z	84. Supplement Left Hand Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach
85. 03UB07Z	85. Supplement Right Radial Artery with Autologous Tissue Substitute, Open Approach
86. 03UB37Z	86. Supplement Right Radial Artery with Autologous Tissue Substitute, Percutaneous Approach
87. 03UB47Z	87. Supplement Right Radial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach
88. 03UC07Z	88. Supplement Left Radial Artery with Autologous Tissue Substitute, Open Approach
89. 03UC37Z	89. Supplement Left Radial Artery with Autologous Tissue Substitute, Percutaneous Approach
90. 03UC47Z	90. Supplement Left Radial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach
91. 03U907Z	91. Supplement Right Ulnar Artery with Autologous Tissue Substitute, Open Approach
92. 03U937Z	92. Supplement Right Ulnar Artery with Autologous Tissue Substitute, Percutaneous Approach
93. 03U947Z	93. Supplement Right Ulnar Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach
94. 03UY07Z	94. Supplement Upper Artery with Autologous Tissue Substitute, Open Approach
95. 03UY37Z	95. Supplement Upper Artery Artery with Autologous Tissue Substitute, Percutaneous Approach
96. 03UY47Z	96. Supplement Upper Artery Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach
97. 05U707Z	97. Supplement Right Axillary Vein with Autologous Tissue Substitute, Open Approach
98. 05U737Z	98. Supplement Right Axillary Vein with Autologous Tissue Substitute, Percutaneous Approach
99. 05U747Z	99. Supplement Right Axillary Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach
100. 05U807Z	100. Supplement Left Axillary Vein with Autologous Tissue Substitute, Open Approach
101. 05U837Z	101. Supplement Left Axillary Vein with Autologous Tissue Substitute, Percutaneous Approach
102. 05U847Z	102. Supplement Left Axillary Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach
103. 05UB07Z	103. Supplement Right Basilic Vein with Autologous Tissue Substitute, Open Approach
104. 05UB37Z	104. Supplement Right Basilic Vein with Autologous Tissue Substitute, Percutaneous Approach
105. 05UB47Z	105. Supplement Right Basilic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach
106. 05UC07Z	106. Supplement Left Basilic Vein with Autologous Tissue Substitute, Open Approach
107. 05UC37Z	107. Supplement Left Basilic Vein with Autologous Tissue Substitute, Percutaneous Approach
108. 05UC47Z	108. Supplement Left Basilic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach

		109. 05U907Z 110. 05U937Z 111. 05U947Z  112. 05UA07Z 113. 05UA37Z 114. 05UA47Z  115. 05UD07Z 116. 05UD37Z 117. 05UD47Z  118. 05UF07Z 119. 05UF07Z 120. 05UF07Z  121. 05UG07Z 122. 05UG37Z 123. 05UG47Z  124. 05UH07Z 125. 05UH37Z 126. 05UH47Z  127. 05UY07Z 128. 05UY37Z	109. Supplement Right Brachial Vein with Autologous Tissue Substitute, Open Approach 110. Supplement Right Brachial Vein with Autologous Tissue Substitute, Percutaneous Approach 111. Supplement Right Brachial Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach  112. Supplement Left Brachial Vein with Autologous Tissue Substitute, Open Approach 113. Supplement Left Brachial Vein with Autologous Tissue Substitute, Percutaneous Approach 114. Supplement Left Brachial Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach  115. Supplement Right Cephalic Vein with Autologous Tissue Substitute, Open Approach 116. Supplement Right Cephalic Vein with Autologous Tissue Substitute, Percutaneous Approach 117. Supplement Right Cephalic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach  118. Supplement Left Cephalic Vein with Autologous Tissue Substitute, Open Approach 119. Supplement Left Cephalic Vein with Autologous Tissue Substitute, Percutaneous Approach 120. Supplement Left Cephalic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach  121. Supplement Right Hand Vein with Autologous Tissue Substitute, Open Approach 122. Supplement Right Hand Vein with Autologous Tissue Substitute, Percutaneous Approach 123. Supplement Right Hand Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach  124. Supplement Left Hand Vein with Autologous Tissue Substitute, Open Approach 125. Supplement Left Hand Vein with Autologous Tissue Substitute, Percutaneous Approach 126. Supplement Left Hand Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach  127. Supplement Upper Vein with Autologous Tissue Substitute, Open Approach 128. Supplement Upper Vein with Autologous Tissue Substitute, Percutaneous Approach			
35236	upper extremity	1. 03Q60ZZ 2. 03Q50ZZ 3. 03Q80ZZ 4. 03Q70ZZ 5. 03QF0ZZ 6. 03QD0ZZ 7. 03QC0ZZ 8. 03QB0ZZ 9. 03QA0ZZ 10. 03Q90ZZ 11. 03QY0ZZ  12. 05Q80ZZ 13. 05Q70ZZ 14. 05QC0ZZ 15. 05QB0ZZ 16. 05QA0ZZ 17. 05Q90ZZ 18. 05QF0ZZ 19. 05QD0ZZ 20. 05QH0ZZ	1. Repair Left Axillary Artery, Open Approach 2. Repair Right Axillary Artery, Open Approach 3. Repair Left Brachial Artery, Open Approach 4. Repair Right Brachial Artery, Open Approach 5. Repair Left Hand Artery, Open Approach 6. Repair Right Hand Artery, Open Approach 7. Repair Left Radial Artery, Open Approach 8. Repair Right Radial Artery, Open Approach 9. Repair Left Ulnar Artery, Open Approach 10. Repair Right Ulnar Artery, Open Approach 11. Repair Upper Artery, Open Approach  12. Repair Left Axillary Vein, Open Approach 13. Repair Right Axillary Vein, Open Approach 14. Repair Left Basilic Vein, Open Approach 15. Repair Right Basilic Vein, Open Approach 16. Repair Left Brachial Vein, Open Approach 17. Repair Right Brachial Vein, Open Approach 18. Repair Left Cephalic Vein, Open Approach 19. Repair Right Cephalic Vein, Open Approach 20. Repair Left Hand Vein, Open Approach			

35241	intrathoracic, with bypass	1. 02Q00ZZ 2. 02Q10ZZ 3. 02Q20ZZ 4. 02Q30ZZ 5. 02Q40ZZ 6. 02QR0ZZ 7. 02QQ0ZZ 8. 02QP0ZZ 9. 02QT0ZZ 10. 02QS0ZZ 11. 02QV0ZZ 12. 02QX0ZZ 13. 02QW0ZZ  14. 02RR07Z 15. 02RQ07Z 16. 02RP07Z 17. 02RT07Z 18. 02RS07Z 19. 02RV07Z 20. 02RX07Z 21. 02RW07Z  WITH BYPASS 5A1221Z	1. Repair Coronary Artery, One Artery, Open Approach 2. Repair Coronary Artery, Two Arteries, Open Approach 3. Repair Coronary Artery, Three Arteries, Open Approach 4. Repair Coronary Artery, Four or More Arteries, Open Approach 5. Repair Coronary Vein, Open Approach 6. Repair Left Pulmonary Artery, Open Approach 7. Repair Right Pulmonary Artery, Open Approach 8. Repair Pulmonary Trunk, Open Approach 9. Repair Left Pulmonary Vein, Open Approach 10. Repair Right Pulmonary Vein, Open Approach 11. Repair Superior Vena Cava, Open Approach 12. Repair of Thoracic Aorta, Ascending/Arch, Open Approach 13. Repair of Thoracic Aorta, Descending, Open Approach  14. Replacement of Left Pulmonary Artery with Autologous Tissue Substitute, Open Approach 15. Replacement of Right Pulmonary Artery with Autologous Tissue Substitute, Open Approach 16. Replacement of Pulmonary Trunk with Autologous Tissue Substitute, Open Approach 17. Replacement of Left Pulmonary Vein with Autologous Tissue Substitute, Open Approach 18. Replacement of Right Pulmonary Vein with Autologous Tissue Substitute, Open Approach 19. Replacement of Superior Vena Cava Artery with Autologous Tissue Substitute, Open Approach 20. Replacement of Thoracic Aorta, Ascending/Arch with Autologous Tissue Substitute, Open Approach 21. Replacement of Thoracic Aorta, Descending, with Autologous Tissue Substitute, Open Approach  WITH BYPASS Performance of Cardiac Output, Continuous			
35246	intrathoracic, without bypass	1. 02Q00ZZ 2. 02Q10ZZ 3. 02Q20ZZ 4. 02Q30ZZ 5. 02Q40ZZ 6. 02QR0ZZ 7. 02QQ0ZZ 8. 02QP0ZZ 9. 02QT0ZZ 10. 02QS0ZZ 11. 02QV0ZZ 12. 02QX0ZZ 13. 02QW0ZZ  14. 02RR07Z 15. 02RQ07Z 16. 02RP07Z 17. 02RT07Z 18. 02RS07Z 19. 02RV07Z 20. 02RX07Z 21. 02RW07Z	1. Repair Coronary Artery, One Artery, Open Approach 2. Repair Coronary Artery, Two Arteries, Open Approach 3. Repair Coronary Artery, Three Arteries, Open Approach 4. Repair Coronary Artery, Four or More Arteries, Open Approach 5. Repair Coronary Vein, Open Approach 6. Repair Left Pulmonary Artery, Open Approach 7. Repair Right Pulmonary Artery, Open Approach 8. Repair Pulmonary Trunk, Open Approach 9. Repair Left Pulmonary Vein, Open Approach 10. Repair Right Pulmonary Vein, Open Approach 11. Repair Superior Vena Cava, Open Approach 12. Repair of Thoracic Aorta, Ascending/Arch, Open Approach 13. Repair of Thoracic Aorta, Descending, Open Approach  14. Replacement of Left Pulmonary Artery with Autologous Tissue Substitute, Open Approach 15. Replacement of Right Pulmonary Artery with Autologous Tissue Substitute, Open Approach 16. Replacement of Pulmonary Trunk with Autologous Tissue Substitute, Open Approach 17. Replacement of Left Pulmonary Vein with Autologous Tissue Substitute, Open Approach 18. Replacement of Right Pulmonary Vein with Autologous Tissue Substitute, Open Approach 19. Replacement of Superior Vena Cava Artery with Autologous Tissue Substitute, Open Approach 20. Replacement of Thoracic Aorta, Ascending/Arch with Autologous Tissue Substitute, Open Approach 21. Replacement of Thoracic Aorta, Descending, with Autologous Tissue Substitute, Open Approach			

35248	intra-abdominal	1. 04Q00ZZ 2. 04Q10ZZ 3. 04Q70ZZ 4. 04Q80ZZ 5. 04Q60ZZ 6. 04QD0ZZ 7. 04QC0ZZ 8. 04QJ0ZZ 9. 04QH0ZZ 10. 04Q20ZZ 11. 04Q30ZZ 12. 04QB0ZZ 13. 04QF0ZZ 14. 04QE0ZZ 15. 04QA0ZZ 16. 04Q90ZZ 17. 04Q40ZZ 18. 04Q50ZZ 19. 04QY0ZZ  20. 06Q70ZZ 21. 06QD0ZZ 22. 06QC0ZZ 23. 06QG0ZZ 24. 06QF0ZZ 25. 06Q20ZZ 26. 06Q40ZZ 27. 06QJ0ZZ 28. 06QH0ZZ 29. 06Q60ZZ 30. 06QY0ZZ 31. 06Q80ZZ 32. 06QB0ZZ 33. 06Q90ZZ 34. 06Q10ZZ 35. 06Q50ZZ  36. 04R007Z 37. 04R107Z 38. 04R707Z 39. 04R807Z 40. 04R607Z 41. 04RD07Z 42. 04RC07Z 43. 04RJ07Z 44. 04RH07Z	1. Repair Abdominal Aorta, Open Approach 2. Repair Celiac Artery, Open Approach 3. Repair Left Colic Artery, Open Approach 4. Repair Middle Colic Artery, Open Approach 5. Repair Right Colic Artery, Open Approach 6. Repair Left Common Iliac Artery, Open Approach 7. Repair Right Common Iliac Artery, Open Approach 8. Repair Left External Iliac Artery, Open Approach 9. Repair Right External Iliac Artery, Open Approach 10. Repair Gastric Artery, Open Approach 11. Repair Hepatic Artery, Open Approach 12. Repair Inferior Mesenteric Artery, Open Approach 13. Repair Left Internal Iliac Artery, Open Approach 14. Repair Right Internal Iliac Artery, Open Approach 15. Repair Left Renal Artery, Open Approach 16. Repair Right Renal Artery, Open Approach 17. Repair Splenic Artery, Open Approach 18. Repair Superior Mesenteric Artery, Open Approach 19. Repair Lower Artery, Open Approach  20. Repair Colic Vein, Open Approach 21. Repair Left Common Iliac Vein, Open Approach 22. Repair Right Common Iliac Vein, Open Approach 23. Repair Left External Iliac Vein, Open Approach 24. Repair Right External Iliac Vein, Open Approach 25. Repair Gastric Vein, Open Approach 26. Repair Hepatic Vein, Open Approach 27. Repair Left Hypogastric Vein, Open Approach 28. Repair Right Hypogastric Vein, Open Approach 29. Repair Inferior Mesenteric Vein, Open Approach 30. Repair Lower Vein, Open Approach 31. Repair Portal Vein, Open Approach 32. Repair Left Renal Vein, Open Approach 33. Repair Right Renal Vein, Open Approach 34. Repair Splenic Vein, Open Approach 35. Repair Superior Mesenteric Vein, Open Approach  36. Replacement of Abdominal Aorta with Autologous Tissue Substitute, Open Approach 37. Replacement of Celiac Artery with Autologous Tissue Substitute, Open Approach 38. Replacement of Left Colic Artery with Autologous Tissue Substitute, Open Approach 39. Replacement of Middle Colic Artery with Autologous Tissue Substitute, Open Approach 40. Replacement of Right Colic Artery with Autologous Tissue Substitute, Open Approach 41. Replacement of Left Common Iliac Artery with Autologous Tissue Substitute, Open Approach 42. Replacement of Right Common Iliac Artery with Autologous Tissue Substitute, Open Approach 43. Replacement of Left External Iliac Artery with Autologous Tissue Substitute, Open Approach 44. Replacement of Right External Iliac Artery with Autologous Tissue Substitute, Open Approach			
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		<p>45. 04R207Z 46. 04R307Z 47. 04RB07Z 48. 04RF07Z 49. 04RE07Z 50. 04RA07Z 51. 04R907Z 52. 04R407Z 53. 04R507Z 54. 04RY07Z</p> <p>55. 06R707Z 56. 06RD07Z 57. 06RC07Z 58. 06RG07Z 59. 06RF07Z 60. 06R207Z 61. 06R407Z 62. 06RJ07Z 63. 06RH07Z 64. 06R607Z 65. 06RY07Z 66. 06R807Z 67. 06RB07Z 68. 06R907Z 69. 06R107Z 70. 06R507Z</p>	<p>45. Replacement of Gastric Artery with Autologous Tissue Substitute, Open Approach 46. Replacement of Hepatic Artery with Autologous Tissue Substitute, Open Approach 47. Replacement of Inferior Mesenteric Artery with Autologous Tissue Substitute, Open Approach 48. Replacement of Left Internal Iliac Artery with Autologous Tissue Substitute, Open Approach 49. Replacement of Right Internal Iliac Artery with Autologous Tissue Substitute, Open Approach 50. Replacement of Left Renal Artery with Autologous Tissue Substitute, Open Approach 51. Replacement of Right Renal Artery with Autologous Tissue Substitute, Open Approach 52. Replacement of Splenic Artery with Autologous Tissue Substitute, Open Approach 53. Replacement of Superior Mesenteric Artery with Autologous Tissue Substitute, Open Approach 54. Replacement of Lower Artery with Autologous Tissue Substitute, Open Approach</p> <p>55. Replacement of Colic Vein with Autologous Tissue Substitute, Open Approach 56. Replacement of Left Common Iliac Vein with Autologous Tissue Substitute, Open Approach 57. Replacement of Right Common Iliac Vein with Autologous Tissue Substitute, Open Approach 58. Replacement of Left External Iliac Vein with Autologous Tissue Substitute, Open Approach 59. Replacement of Right External Iliac Vein with Autologous Tissue Substitute, Open Approach 60. Replacement of Gastric Vein with Autologous Tissue Substitute, Open Approach 61. Replacement of Hepatic Vein with Autologous Tissue Substitute, Open Approach 62. Replacement of Left Hypogastric Vein with Autologous Tissue Substitute, Open Approach 63. Replacement of Right Hypogastric Vein with Autologous Tissue Substitute, Open Approach 64. Replacement of Inferior Mesenteric Vein with Autologous Tissue Substitute, Open Approach 65. Replacement of Lower Vein with Autologous Tissue Substitute, Open Approach 66. Replacement of Portal Vein with Autologous Tissue Substitute, Open Approach 67. Replacement of Left Renal Vein with Autologous Tissue Substitute, Open Approach 68. Replacement of Right Renal Vein with Autologous Tissue Substitute, Open Approach 69. Replacement of Splenic Vein with Autologous Tissue Substitute, Open Approach 70. Replacement of Superior Mesenteric Vein with Autologous Tissue Substitute, Open Approach</p>			
35256	lower extremity	<p>1. 04QQ0ZZ 2. 04QP0ZZ 3. 04QL0ZZ 4. 04QK0ZZ 5. 04QW0ZZ 6. 04QV0ZZ 7. 04QU0ZZ 8. 04QT0ZZ 9. 04QN0ZZ 10. 04QM0ZZ 11. 04QS0ZZ 12. 04QR0ZZ 13. 04QY0ZZ</p> <p>14. 06QN0ZZ 15. 06QM0ZZ</p>	<p>1. Repair Left Anterior Tibial Artery, Open Approach 2. Repair Right Anterior Tibial Artery, Open Approach 3. Repair Left Femoral Artery, Open Approach 4. Repair Right Femoral Artery, Open Approach 5. Repair Left Foot Artery, Open Approach 6. Repair Right Foot Artery, Open Approach 7. Repair Left Peroneal Artery, Open Approach 8. Repair Right Peroneal Artery, Open Approach 9. Repair Left Popliteal Artery, Open Approach 10. Repair Right Popliteal Artery, Open Approach 11. Repair Left Posterior Tibial Artery, Open Approach 12. Repair Right Posterior Tibial Artery, Open Approach 13. Repair Lower Artery, Open Approach</p> <p>14. Repair Left Femoral Vein, Open Approach 15. Repair Right Femoral Vein, Open Approach</p>			

16. 06QV0ZZ	16. Repair Left Foot Vein, Open Approach
17. 06QT0ZZ	17. Repair Right Foot Vein, Open Approach
18. 06QY0ZZ	18. Repair Lower Vein, Open Approach
19. 06QQ0ZZ	19. Repair Left Saphenous Vein, Open Approach
20. 06QP0ZZ	20. Repair Right Saphenous Vein, Open Approach
21. 04RQ07Z	21. Replacement of Left Anterior Tibial Artery with Autologous Tissue Substitute, Open Approach
22. 04RP07Z	22. Replacement of Right Anterior Tibial Artery with Autologous Tissue Substitute, Open Approach
23. 04RL07Z	23. Replacement of Left Femoral Tibial Artery with Autologous Tissue Substitute, Open Approach
24. 04RK07Z	24. Replacement of Right Femoral Artery with Autologous Tissue Substitute, Open Approach
25. 04RQ07Z	25. Replacement of Left Foot Artery with Autologous Tissue Substitute, Open Approach
26. 04RV07Z	26. Replacement of Right Foot Artery with Autologous Tissue Substitute, Open Approach
27. 04RU07Z	27. Replacement of Left Peroneal Artery with Autologous Tissue Substitute, Open Approach
28. 04RT07Z	28. Replacement of Right Peroneal Artery with Autologous Tissue Substitute, Open Approach
29. 04RN07Z	29. Replacement of Left Popliteal Artery with Autologous Tissue Substitute, Open Approach
30. 04RM07Z	30. Replacement of Right Popliteal Artery with Autologous Tissue Substitute, Open Approach
31. 04RS07Z	31. Replacement of Left Posterior Tibial Artery with Autologous Tissue Substitute, Open Approach
32. 04RR07Z	32. Replacement of Right Anterior Tibial Artery with Autologous Tissue Substitute, Open Approach
33. 04RY07Z	33. Replacement of Lower Artery with Autologous Tissue Substitute, Open Approach
34. 06RN07Z	34. Replacement of Left Femoral Vein with Autologous Tissue Substitute, Open Approach
35. 06RM07Z	35. Replacement of Right Femoral Vein with Autologous Tissue Substitute, Open Approach
36. 06RV07Z	36. Replacement of Left Foot Vein with Autologous Tissue Substitute, Open Approach
37. 06RT07Z	37. Replacement of Right Foot Vein with Autologous Tissue Substitute, Open Approach
38. 06RY07Z	38. Replacement of Lower Vein with Autologous Tissue Substitute, Open Approach
39. 06RQ07Z	39. Replacement of Left Saphenous Vein with Autologous Tissue Substitute, Open Approach
40. 06RP07Z	40. Replacement of Right Saphenous Vein with Autologous Tissue Substitute, Open Approach

35261	Repair blood vessel with graft other than vein; neck	1. 03QJ0ZZ 2. 03QH0ZZ 3. 03QN0ZZ 4. 03QM0ZZ 5. 03QL0ZZ 6. 03QK0ZZ 7. 03QV0ZZ 8. 03QU0ZZ 9. 03QQ0ZZ 10. 03QP0ZZ 11. 03QY0ZZ  12. 03RJ0KZ 13. 03RJ0JZ 14. 03RH0KZ 15. 03RH0JZ 16. 03RL0KZ 17. 03RL0JZ 18. 03RV0KZ 19. 03RV0JZ 20. 03RU0KZ 21. 03RU0JZ 22. 03RQ0KZ 23. 03RQ0JZ 24. 03RP0KZ 25. 03RP0JZ 26. 03RY4KZ 27. 03RY4JZ	1. Repair Left Common Carotid Artery, Open Approach 2. Repair Right Common Carotid Artery, Open Approach 3. Repair Left External Carotid Artery, Open Approach 4. Repair Right External Carotid Artery, Open Approach 5. Repair Left Internal Carotid Artery, Open Approach 6. Repair Right Internal Carotid Artery, Open Approach 7. Repair Left Thyroid Artery, Open Approach 8. Repair Right Thyroid Artery, Open Approach 9. Repair Left Vertebral Artery, Open Approach 10. Repair Right Vertebral Artery, Open Approach 11. Repair Upper Artery, Open Approach  12. Replacement of Left Common Carotid Artery with Nonautologous Tissue Substitute, Open Approach 13. Replacement of Left Common Carotid Artery with Synthetic Substitute, Open Approach 14. Replacement of Right Common Carotid Artery with Nonautologous Tissue Substitute, Open Approach 15. Replacement of Right Common Carotid Artery with Synthetic Substitute, Open Approach 16. Replacement of Left Internal Carotid Artery with Nonautologous Tissue Substitute, Open Approach 17. Replacement of Left Internal Carotid Artery with Synthetic Substitute, Open Approach 18. Replacement of Left Thyroid Artery with Nonautologous Tissue Substitute, Open Approach 19. Replacement of Left Thyroid Artery with Synthetic Substitute, Open Approach 20. Replacement of Right Thyroid Artery with Nonautologous Tissue Substitute, Open Approach 21. Replacement of Right Thyroid Artery with Synthetic Substitute, Open Approach 22. Replacement of Left Vertebral Artery with Nonautologous Tissue Substitute, Open Approach 23. Replacement of Left Vertebral Artery with Synthetic Substitute, Open Approach 24. Replacement of Right Vertebral Artery with Nonautologous Tissue Substitute, Open Approach 25. Replacement of Right Vertebral Artery with Synthetic Substitute, Open Approach 26. Replacement of Upper Artery with Nonautologous Tissue Substitute, Open Approach 27. Replacement of Upper Artery with Synthetic Substitute, Open Approach			
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35266	Repair blood vessel with graft other than vein; upper extremity	<i>Repair</i> 1. 03Q50ZZ 2. 03Q53ZZ 3. 03Q54ZZ  4. 03Q60ZZ 5. 03Q603Z 6. 03Q64ZZ  7. 03Q70ZZ 8. 03Q73ZZ 9. 03Q74ZZ  10. 03Q80ZZ 11. 03Q83ZZ 12. 03Q84ZZ  13. 03QD0ZZ 14. 03QD3ZZ 15. 03QD4ZZ  16. 03QF0ZZ 17. 03QF3ZZ 18. 03QF4ZZ  19. 03QB0ZZ 20. 03QB3ZZ	<i>Repair</i> 1. Repair Right Axillary Artery, Open Approach 2. Repair Right Axillary Artery, Percutaneous Approach 3. Repair Right Axillary Artery, Percutaneous Endoscopic Approach  4. Repair Left Axillary Artery, Open Approach 5. Repair Left Axillary Artery, Percutaneous Approach 6. Repair Left Axillary Artery, Percutaneous Endoscopic Approach  7. Repair Right Brachial Artery, Open Approach 8. Repair Right Brachial Artery, Percutaneous Approach 9. Repair Right Brachial Artery, Percutaneous Endoscopic Approach  10. Repair Left Brachial Artery, Open Approach 11. Repair Left Brachial Artery, Percutaneous Approach 12. Repair Left Brachial Artery, Percutaneous Endoscopic Approach  13. Repair Right Hand Artery, Open Approach 14. Repair Right Hand Artery, Percutaneous Approach 15. Repair Right Hand Artery, Percutaneous Endoscopic Approach  16. Repair Left Hand Artery, Open Approach 17. Repair Left Hand Artery, Percutaneous Approach 18. Repair Left Hand Artery, Percutaneous Endoscopic Approach  19. Repair Right Radial Artery, Open Approach 20. Repair Right Radial Artery, Percutaneous Approach			
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21. 03QB4ZZ	21. Repair Right Radial Artery, Percutaneous Endoscopic Approach
22. 03QC0ZZ	22. Repair Left Radial Artery, Open Approach
23. 03QC3ZZ	23. Repair Left Radial Artery, Percutaneous Approach
24. 03QC4ZZ	24. Repair Left Radial Artery, Percutaneous Endoscopic Approach
25. 03Q90ZZ	25. Repair Right Ulnar Artery, Open Approach
26. 03Q93ZZ	26. Repair Right Ulnar Artery, Percutaneous Approach
27. 03Q94ZZ	27. Repair Right Ulnar Artery, Percutaneous Endoscopic Approach
28. 03QA0ZZ	28. Repair Left Ulnar Artery, Open Approach
29. 03QA3ZZ	29. Repair Left Ulnar Artery, Percutaneous Approach
30. 03QA4ZZ	30. Repair Left Ulnar Artery, Percutaneous Endoscopic Approach
31. 03QY0ZZ	31. Repair of Upper Artery, Open Approach
32. 03QY3ZZ	32. Repair of Upper Artery, Percutaneous Approach
33. 03QY4ZZ	33. Repair of Upper Artery, Percutaneous Endoscopic Approach
34. 05Q70ZZ	34. Repair Right Axillary Vein, Open Approach
35. 05Q73ZZ	35. Repair Right Axillary Vein, Percutaneous Approach
36. 05Q74ZZ	36. Repair Right Axillary Vein, Percutaneous Endoscopic Approach
37. 05Q80ZZ	37. Repair Left Axillary Vein, Open Approach
38. 05Q83ZZ	38. Repair Left Axillary Vein, Percutaneous Approach
39. 05Q84ZZ	39. Repair Left Axillary Vein, Percutaneous Endoscopic Approach
40. 05Q90ZZ	40. Repair Right Brachial Vein, Open Approach

41. 05Q93ZZ	41. Repair Right Brachial Vein, Percutaneous Approach
42. 05Q94ZZ	42. Repair Right Brachial Vein, Percutaneous Endoscopic Approach
43. 05QA0ZZ	43. Repair Left Brachial Vein, Open Approach
44. 05QA3ZZ	44. Repair Left Brachial Vein, Percutaneous Approach
45. 05QA4ZZ	45. Repair Left Brachial Vein, Percutaneous Endoscopic Approach
46. 05QB0ZZ	46. Repair Right Basilic Vein, Open Approach
47. 05QB3ZZ	47. Repair Right Basilic Vein, Percutaneous Approach
48. 05QB4ZZ	48. Repair Right Basilic Vein, Percutaneous Endoscopic Approach
49. 05QC0ZZ	49. Repair Left Basilic Vein, Open Approach
50. 05QC3ZZ	50. Repair Left Basilic Vein, Percutaneous Approach
51. 05QC4ZZ	51. Repair Left Basilic Vein, Percutaneous Endoscopic Approach
52. 05QD0ZZ	52. Repair Right Cephalic Vein, Open Approach
53. 05QD3ZZ	53. Repair Right Cephalic Vein, Percutaneous Approach
54. 05QD4ZZ	54. Repair Right Cephalic Vein, Percutaneous Endoscopic Approach
55. 05QF0ZZ	55. Repair Left Cephalic Vein, Open Approach
56. 05QF3ZZ	56. Repair Left Cephalic Vein, Percutaneous Approach
57. 05QF4ZZ	57. Repair Left Cephalic Vein, Percutaneous Endoscopic Approach
58. 05QG0ZZ	58. Repair Right Hand Vein, Open Approach
59. 05QG3ZZ	59. Repair Right Hand Vein, Percutaneous Approach
60. 05QG4ZZ	60. Repair Right Hand Vein, Percutaneous Endoscopic Approach

61. 05QH0ZZ	61. Repair Left Hand Vein, Open Approach
62. 05QH3ZZ	62. Repair Left Hand Vein, Percutaneous Approach
63. 05QH4ZZ	63. Repair Left Hand Vein, Percutaneous Endoscopic Approach
64. 05QY0ZZ	64. Repair of Upper Vein Open Approach
65. 05QY3ZZ	65. Repair of Upper Vein Percutaneous Approach
66. 05QY4ZZ	66. Repair of Upper Vein Percutaneous Endoscopic Approach
Grafts	<i>Grafts</i>
67. 03U50KZ	67. Supplement Right Axillary Artery with Nonautologous Tissue Substitute, Open Approach
68. 03U50JZ	68. Supplement Right Axillary Artery with Synthetic Substitute, Open Approach
69. 03U53KZ	69. Supplement Right Axillary Artery with Nonautologous Tissue Substitute, Percutaneous Approach
70. 03U53JZ	70. Supplement Right Axillary Artery with Synthetic Substitute, Percutaneous Approach
71. 03U54KZ	71. Supplement Right Axillary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach
72. 03U54JZ	72. Supplement Right Axillary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach
73. 03U60KZ	73. Supplement Left Axillary Artery with Nonautologous Tissue Substitute, Open Approach
74. 03U60JZ	74. Supplement Left Axillary Artery with Synthetic Substitute, Open Approach
75. 03U63KZ	75. Supplement Left Axillary Artery with Nonautologous Tissue Substitute, Percutaneous Approach
76. 03U63JZ	76. Supplement Left Axillary Artery with Synthetic Substitute, Percutaneous Approach
77. 03U64KZ	77. Supplement Left Axillary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach
78. 03U64JZ	78. Supplement Left Axillary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach
79. 03U70KZ	79. Supplement Right Brachial Artery with Nonautologous Tissue Substitute, Open Approach
80. 03U70JZ	80. Supplement Right Brachial Artery with Synthetic Substitute, Open Approach
81. 03U73KZ	81. Supplement Right Brachial Artery with Nonautologous Tissue Substitute, Percutaneous Approach
82. 03U73JZ	82. Supplement Right Brachial Artery with Synthetic Substitute, Percutaneous Approach

83. 03U74KZ	83. Supplement Right Brachial Artery with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
84. 03U74JZ	84. Supplement Right Brachial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach
85. 03U80KZ	85. Supplement Left Brachial Artery with Nonatuologous Tissue Substitute, Open Approach
86. 03U80JZ	86. Supplement Left Brachial Artery with Synthetic Substitute, Open Approach
87. 03U83KZ	87. Supplement Left Brachial Artery with Nonatuologous Tissue Substitute, Percutaneous Approach
88. 03U83JZ	88. Supplement Left Brachial Artery with Synthetic Substitute, Percutaneous Approach
89. 03U84KZ	89. Supplement Left Brachial Artery with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
90. 03U84JZ	90. Supplement Left Brachial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach
91. 03UD0KZ	91. Supplement Right Hand Artery with Nonatuologous Tissue Substitute, Open Approach
92. 03UD0JZ	92. Supplement Right Hand Artery with Synthetic Substitute, Open Approach
93. 03UD3KZ	93. Supplement Right Hand Artery with Nonatuologous Tissue Substitute, Percutaneous Approach
94. 03UD3JZ	94. Supplement Right Hand Artery with Synthetic Substitute, Percutaneous Approach
95. 03UD4KZ	95. Supplement Right Hand Artery with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
96. 03UD4JZ	96. Supplement Right Hand Artery with Synthetic Substitute, Percutaneous Endoscopic Approach
97. 03UF0KZ	97. Supplement Left Hand Artery with Nonatuologous Tissue Substitute, Open Approach
98. 03UF0JZ	98. Supplement Left Hand Artery with Synthetic Substitute, Open Approach
99. 03UF3KZ	99. Supplement Left Hand Artery with Nonatuologous Tissue Substitute, Percutaneous Approach
100. 03UF3JZ	100. Supplement Left Hand Artery with Synthetic Substitute, Percutaneous Approach
101. 03UF4KZ	101. Supplement Left Hand Artery with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
102. 03UF4JZ	102. Supplement Left Hand Artery with Synthetic Substitute, Percutaneous Endoscopic Approach
103. 03UB0KZ	103. Supplement Right Radial Artery with Nonatuologous Tissue Substitute, Open Approach
104. 03UB0JZ	104. Supplement Right Radial Artery with Synthetic Substitute, Open Approach
105. 03UB3KZ	105. Supplement Right Radial Artery with Nonatuologous Tissue Substitute, Percutaneous Approach

106. 03UB3JZ	106. Supplement Right Radial Artery with Synthetic Substitute, Percutaneous Approach
107. 03UB4KZ	107. Supplement Right Radial Artery with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
108. 03UB4JZ	108. Supplement Right Radial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach
109. 03UC0KZ	109. Supplement Left Radial Artery with Nonatuologous Tissue Substitute, Open Approach
110. 03UC0JZ	110. Supplement Left Radial Artery with Synthetic Substitute, Open Approach
111. 03UC3KZ	111. Supplement Left Radial Artery with Nonatuologous Tissue Substitute, Percutaneous Approach
112. 03UC3JZ	112. Supplement Left Radial Artery with Synthetic Substitute, Percutaneous Approach
113. 03UC4KZ	113. Supplement Left Radial Artery with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
114. 03UC4JZ	114. Supplement Left Radial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach
115. 03U90KZ	115. Supplement Right Ulnar Artery with Nonatuologous Tissue Substitute, Open Approach
116. 03U90JZ	116. Supplement Right Ulnar Artery with Synthetic Substitute, Open Approach
117. 03U93KZ	117. Supplement Right Ulnar Artery with Nonatuologous Tissue Substitute, Percutaneous Approach
118. 03U93JZ	118. Supplement Right Ulnar Artery with Synthetic Substitute, Percutaneous Approach
119. 03U94KZ	119. Supplement Right Ulnar Artery with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
120. 03U94JZ	120. Supplement Right Ulnar Artery with Synthetic Substitute, Percutaneous Endoscopic Approach
121. 03UA0KZ	121. Supplement Left Ulnar Artery with Nonatuologous Tissue Substitute, Open Approach
122. 03UA0JZ	122. Supplement Left Ulnar Artery with Synthetic Substitute, Open Approach
123. 03UA3KZ	123. Supplement Left Ulnar Artery with Nonatuologous Tissue Substitute, Percutaneous Approach
124. 03UA3JZ	124. Supplement Left Ulnar Artery with Synthetic Substitute, Percutaneous Approach
125. 03UA4KZ	125. Supplement Left Ulnar Artery with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
126. 03UA4JZ	126. Supplement Left Ulnar Artery with Synthetic Substitute, Percutaneous Endoscopic Approach
127. 03UY0KZ	127. Supplement Upper Artery with Nonatuologous Tissue Substitute, Open Approach
128. 03UY0JZ	128. Supplement Upper Artery with Synthetic Substitute, Open Approach

129. 03UY3KZ	129. Supplement Upper Artery with Nonatuologous Tissue Substitute, Percutaneous Approach
130. 03UY3JZ	130. Supplement Upper Artery with Synthetic Substitute, Percutaneous Approach
131. 03UY4KZ	131. Supplement Upper Artery with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
132. 03UY4JZ	132. Supplement Upper Artery with Synthetic Substitute, Percutaneous Endoscopic Approach
133. 05U70KZ	133. Supplement Right Axillary Vein with Nonatuologous Tissue Substitute, Open Approach
134. 05U70JZ	134. Supplement Right Axillary Vein with Synthetic Substitute, Open Approach
135. 05U73KZ	135. Supplement Right Axillary Vein with Nonatuologous Tissue Substitute, Percutaneous Approach
136. 05U73JZ	136. Supplement Right Axillary Vein with Synthetic Substitute, Percutaneous Approach
137. 05U74KZ	137. Supplement Right Axillary Vein with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
138. 05U74JZ	138. Supplement Right Axillary Vein with Synthetic Substitute, Percutaneous Endoscopic Approach
139. 05U80KZ	139. Supplement Left Axillary Vein with Nonatuologous Tissue Substitute, Open Approach
140. 05U80JZ	140. Supplement Left Axillary Vein with Synthetic Substitute, Open Approach
141. 05U83KZ	141. Supplement Left Axillary Vein with Nonatuologous Tissue Substitute, Percutaneous Approach
142. 05U83JZ	142. Supplement Left Axillary Vein with Synthetic Substitute, Percutaneous Approach
143. 05U84KZ	143. Supplement Left Axillary Vein with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
144. 05U84JZ	144. Supplement Left Axillary Vein with Synthetic Substitute, Percutaneous Endoscopic Approach
145. 05UB0KZ	145. Supplement Right Basilic Vein with Nonatuologous Tissue Substitute, Open Approach
146. 05UB0JZ	146. Supplement Right Basilic Vein with Synthetic Substitute, Open Approach
147. 05UB3KZ	147. Supplement Right Basilic Vein with Nonatuologous Tissue Substitute, Percutaneous Approach
148. 05UB3JZ	148. Supplement Right Basilic Vein with Synthetic Substitute, Percutaneous Approach
149. 05UB4KZ	149. Supplement Right Basilic Vein with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
150. 05UB4JZ	150. Supplement Right Basilic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach
151. 05UC0KZ	151. Supplement Left Basilic Vein with Nonatuologous Tissue Substitute, Open Approach
152. 05UC0JZ	152. Supplement Left Basilic Vein with Synthetic Substitute, Open Approach
153. 05UC3KZ	153. Supplement Left Basilic Vein with Nonatuologous Tissue Substitute, Percutaneous Approach
154. 05UC3JZ	154. Supplement Left Basilic Vein with Synthetic Substitute, Percutaneous Approach
155. 05UC4KZ	155. Supplement Left Basilic Vein with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
156. 05UC4JZ	156. Supplement Left Basilic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach
157. 05U90KZ	157. Supplement Right Brachial Vein with Nonatuologous Tissue Substitute, Open Approach
158. 05U90JZ	158. Supplement Right Brachial Vein with Synthetic Substitute, Open Approach
159. 05U93KZ	159. Supplement Right Brachial Vein with Nonatuologous Tissue Substitute, Percutaneous Approach
160. 05U93JZ	160. Supplement Right Brachial Vein with Synthetic Substitute, Percutaneous Approach
161. 05U94KZ	161. Supplement Right Brachial Vein with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
162. 05U94JZ	162. Supplement Right Brachial Vein with Synthetic Substitute, Percutaneous Endoscopic Approach
163. 05UA0KZ	163. Supplement Left Brachial Vein with Nonatuologous Tissue Substitute, Open Approach
164. 05UA0JZ	164. Supplement Left Brachial Vein with Synthetic Substitute, Open Approach
165. 05UA3KZ	165. Supplement Left Brachial Vein with Nonatuologous Tissue Substitute, Percutaneous Approach
166. 05UA3JZ	166. Supplement Left Brachial Vein with Synthetic Substitute, Percutaneous Approach
167. 05UA4KZ	167. Supplement Left Brachial Vein with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach
168. 05UA4JZ	168. Supplement Left Brachial Vein with Synthetic Substitute, Percutaneous Endoscopic Approach
169. 05UD0KZ	169. Supplement Right Cephalic Vein with Nonatuologous Tissue Substitute, Open Approach
170. 05UD0JZ	170. Supplement Right Cephalic Vein with Synthetic Substitute, Open Approach
171. 05UD3KZ	171. Supplement Right Cephalic Vein with Nonatuologous Tissue Substitute, Percutaneous Approach
172. 05UD3JZ	172. Supplement Right Cephalic Vein with Synthetic Substitute, Percutaneous Approach
173. 05UD4KZ	173. Supplement Right Cephalic Vein with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach

		174. 05UD4JZ	174. Supplement Right Cephalic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach			
		175. 05UF0KZ	175. Supplement Left Cephalic Vein with Nonatuologous Tissue Substitute, Open Approach			
		176. 05UF0JZ	176. Supplement Left Cephalic Vein with Synthetic Substitute, Open Approach			
		177. 05UF3KZ	177. Supplement Left Cephalic Vein with Nonatuologous Tissue Substitute, Percutaneous Approach			
		178. 05UF3JZ	178. Supplement Left Cephalic Vein with Synthetic Substitute, Percutaneous Approach			
		179. 05UF4KZ	179. Supplement Left Cephalic Vein with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach			
		180. 05UF4JZ	180. Supplement Left Cephalic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach			
		181. 05UG0KZ	181. Supplement Right Hand Vein with Nonatuologous Tissue Substitute, Open Approach			
		182. 05UG0JZ	182. Supplement Right Hand Vein with Synthetic Substitute, Open Approach			
		183. 05UG3KZ	183. Supplement Right Hand Vein with Nonatuologous Tissue Substitute, Percutaneous Approach			
		184. 05UG3JZ	184. Supplement Right Hand Vein with Synthetic Substitute, Percutaneous Approach			
		185. 05UG4KZ	185. Supplement Right Hand Vein with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach			
		186. 05UG4JZ	186. Supplement Right Hand Vein with Synthetic Substitute, Percutaneous Endoscopic Approach			
		187. 05UH0KZ	187. Supplement Left Hand Vein with Nonatuologous Tissue Substitute, Open Approach			
		188. 05UH0JZ	188. Supplement Left Hand Vein with Synthetic Substitute, Open Approach			
		189. 05UH3KZ	189. Supplement Left Hand Vein with Nonatuologous Tissue Substitute, Percutaneous Approach			
		190. 05UH3JZ	190. Supplement Left Hand Vein with Synthetic Substitute, Percutaneous Approach			
		191. 05UH4KZ	191. Supplement Left Hand Vein with Nonatuologous Tissue Substitute, Percutaneous Endoscopic Approach			
		192. 05UH4JZ	192. Supplement Left Hand Vein with Synthetic Substitute, Percutaneous Endoscopic Approach			
		193. 05UY0KZ	193. Supplement Upper Vein with Nonatuologous Tissue Substitute, Open Approach			
		194. 05UY0JZ	194. Supplement Upper Vein with Synthetic Substitute, Open Approach			
		195. 05UY3KZ	195. Supplement Upper Vein with Nonatuologous Tissue Substitute, Percutaneous Approach			
		196. 05UY3JZ	196. Supplement Upper Vein with Synthetic Substitute, Percutaneous Approach			
35271	intra thoracic, with bypass	1. 02Q00ZZ	1. Repair Coronary Artery, One Artery, Open Approach			
		2. 02Q10ZZ	2. Repair Coronary Artery, Two Arteries, Open Approach			
		3. 02Q20ZZ	3. Repair Coronary Artery, Three Arteries, Open Approach			
		4. 02Q30ZZ	4. Repair Coronary Artery, Four or More Arteries, Open Approach			
		5. 02Q40ZZ	5. Repair Coronary Vein, Open Approach			
		6. 02QR0ZZ	6. Repair Left Pulmonary Artery, Open Approach			
		7. 02QQ0ZZ	7. Repair Right Pulmonary Artery, Open Approach			
		8. 02QP0ZZ	8. Repair Pulmonary Trunk, Open Approach			
		9. 02QT0ZZ	9. Repair Left Pulmonary Vein, Open Approach			
		10. 02QS0ZZ	10. Repair Right Pulmonary Vein, Open Approach			
		11. 02QV0ZZ	11. Repair Superior Vena Cava, Open Approach			
		12. 02QX0ZZ	12. Repair of Thoracic Aorta, Ascending/Arch, Open Approach			
		13. 02QW0ZZ	13. Repair of Thoracic Aorta, Descending, Open Approach			

		14. 02RR0KZ 15. 02RR0JZ 16. 02RR08Z 17. 02RQ0KZ 18. 02RQ0JZ 19. 02RQ08Z 20. 02RP0KZ 21. 02RP0JZ 22. 02RP08Z 23. 02RT0KZ 24. 02RT0JZ 25. 02RT08Z 26. 02RS0KZ 27. 02RS0JZ 28. 02RS08Z 29. 02RV0KZ 30. 02RV0JZ 31. 02RV08Z 32. 02RX0KZ 33. 02RX0JZ 34. 02RX08Z 35. 02RW0KZ 36. 02RW0JZ 37. 02RW08Z  <i>WITH BYPASS</i> 5A1221Z	14. Replacement of Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach 15. Replacement of Left Pulmonary Artery with Synthetic Substitute, Open Approach 16. Replacement of Left Pulmonary Artery with Zooplastic Tissue, Open Approach 17. Replacement of Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach 18. Replacement of Right Pulmonary Artery with Synthetic Substitute, Open Approach 19. Replacement of Right Pulmonary Artery with Zooplastic Tissue, Open Approach 20. Replacement of Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach 21. Replacement of Pulmonary Trunk with Synthetic Substitute, Open Approach 22. Replacement of Pulmonary Trunk with Zooplastic Tissue, Open Approach 23. Replacement of Left Pulmonary Vein with Nonautologous Tissue Substitute, Open Approach 24. Replacement of Left Pulmonary Vein with Synthetic Substitute, Open Approach 25. Replacement of Left Pulmonary Vein with Zooplastic Tissue, Open Approach 26. Replacement of Right Pulmonary Vein with Nonautologous Tissue Substitute, Open Approach 27. Replacement of Right Pulmonary Vein with Synthetic Substitute, Open Approach 28. Replacement of Right Pulmonary Vein with Zooplastic Tissue, Open Approach 29. Replacement of Superior Vena Cava with Nonautologous Tissue Substitute, Open Approach 30. Replacement of Superior Vena Cava with Synthetic Substitute, Open Approach 31. Replacement of Superior Vena Cava with Zooplastic Tissue, Open Approach 32. Replacement of Thoracic Aorta, Ascending/Arch with Nonautologous Tissue Substitute, Open Approach 33. Replacement of Thoracic Aorta, Ascending/Arch with Synthetic Substitute, Open Approach 34. Replacement of Thoracic Aorta, Ascending/Arch with Zooplastic Tissue, Open Approach 35. Replacement of Thoracic Aorta, Descending with Nonautologous Tissue Substitute, Open Approach 36. Replacement of Thoracic Aorta, Descending with Synthetic Substitute, Open Approach 37. Replacement of Thoracic Aorta, Descending with Zooplastic Tissue, Open Approach  <i>WITH BYPASS</i> Performance of Cardiac Output, Continuous			
35276	intrathoracic, without bypass	1. 02Q00ZZ 2. 02Q10ZZ 3. 02Q20ZZ 4. 02Q30ZZ 5. 02Q40ZZ 6. 02QR0ZZ 7. 02QQ0ZZ 8. 02QP0ZZ 9. 02QT0ZZ 10. 02QS0ZZ 11. 02QV0ZZ	1. Repair Coronary Artery, One Artery, Open Approach 2. Repair Coronary Artery, Two Arteries, Open Approach 3. Repair Coronary Artery, Three Arteries, Open Approach 4. Repair Coronary Artery, Four or More Arteries, Open Approach 5. Repair Coronary Vein, Open Approach 6. Repair Left Pulmonary Artery, Open Approach 7. Repair Right Pulmonary Artery, Open Approach 8. Repair Pulmonary Trunk, Open Approach 9. Repair Left Pulmonary Vein, Open Approach 10. Repair Right Pulmonary Vein, Open Approach 11. Repair Superior Vena Cava, Open Approach			



	12. 02QX0ZZ	12. Repair of Thoracic Aorta, Ascending/Arch, Open Approach		
	13. 02QW0ZZ	13. Repair of Thoracic Aorta, Descending, Open Approach		
	14. 02RR0KZ	14. Replacement of Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach		
	15. 02RR0JZ	15. Replacement of Left Pulmonary Artery with Synthetic Substitute, Open Approach		
	16. 02RR08Z	16. Replacement of Left Pulmonary Artery with Zooplastic Tissue, Open Approach		
	17. 02RQ0KZ	17. Replacement of Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach		
	18. 02RQ0JZ	18. Replacement of Right Pulmonary Artery with Synthetic Substitute, Open Approach		
	19. 02RQ08Z	19. Replacement of Right Pulmonary Artery with Zooplastic Tissue, Open Approach		
	20. 02RP0KZ	20. Replacement of Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach		
	21. 02RP0JZ	21. Replacement of Pulmonary Trunk with Synthetic Substitute, Open Approach		
	22. 02RP08Z	22. Replacement of Pulmonary Trunk with Zooplastic Tissue, Open Approach		
	23. 02RT0KZ	23. Replacement of Left Pulmonary Vein with Nonautologous Tissue Substitute, Open Approach		
	24. 02RT0JZ	24. Replacement of Left Pulmonary Vein with Synthetic Substitute, Open Approach		
	25. 02RT08Z	25. Replacement of Left Pulmonary Vein with Zooplastic Tissue, Open Approach		
	26. 02RS0KZ	26. Replacement of Right Pulmonary Vein with Nonautologous Tissue Substitute, Open Approach		
	27. 02RS0JZ	27. Replacement of Right Pulmonary Vein with Synthetic Substitute, Open Approach		
	28. 02RS08Z	28. Replacement of Right Pulmonary Vein with Zooplastic Tissue, Open Approach		
	29. 02RV0KZ	29. Replacement of Superior Vena Cava with Nonautologous Tissue Substitute, Open Approach		
	30. 02RV0JZ	30. Replacement of Superior Vena Cava with Synthetic Substitute, Open Approach		
	31. 02RV08Z	31. Replacement of Superior Vena Cava with Zooplastic Tissue, Open Approach		
	32. 02RX0KZ	32. Replacement of Thoracic Aorta, Ascending/Arch with Nonautologous Tissue Substitute, Open Approach		
	33. 02RX0JZ	33. Replacement of Thoracic Aorta, Ascending/Arch with Synthetic Substitute, Open Approach		
	34. 02RX08Z	34. Replacement of Thoracic Aorta, Ascending/Arch with Zooplastic Tissue, Open Approach		
	35. 02RW0KZ	35. Replacement of Thoracic Aorta, Descending with Nonautologous Tissue Substitute, Open Approach		
	36. 02RW0JZ	36. Replacement of Thoracic Aorta, Descending with Synthetic Substitute, Open Approach		
	37. 02RW08Z	37. Replacement of Thoracic Aorta, Descending with Zooplastic Tissue, Open Approach		

35281	intra-abdominal	1. 04Q00ZZ	1. Repair Abdominal Aorta, Open Approach			
		2. 04Q10ZZ	2. Repair Celiac Artery, Open Approach			
		3. 04Q70ZZ	3. Repair Left Colic Artery, Open Approach			
		4. 04Q80ZZ	4. Repair Middle Colic Artery, Open Approach			
		5. 04Q60ZZ	5. Repair Right Colic Artery, Open Approach			
		6. 04QD0ZZ	6. Repair Left Common Iliac Artery, Open Approach			
		7. 04QC0ZZ	7. Repair Right Common Iliac Artery, Open Approach			
		8. 04QJ0ZZ	8. Repair Left External Iliac Artery, Open Approach			
		9. 04QH0ZZ	9. Repair Right External Iliac Artery, Open Approach			
		10. 04Q20ZZ	10. Repair Gastric Artery, Open Approach			
		11. 04Q30ZZ	11. Repair Hepatic Artery, Open Approach			
		12. 04QB0ZZ	12. Repair Inferior Mesenteric Artery, Open Approach			
		13. 04QF0ZZ	13. Repair Left Internal Iliac Artery, Open Approach			
		14. 04QE0ZZ	14. Repair Right Internal Iliac Artery, Open Approach			
		15. 04QA0ZZ	15. Repair Left Renal Artery, Open Approach			
		16. 04Q90ZZ	16. Repair Right Renal Artery, Open Approach			
		17. 04Q40ZZ	17. Repair Splenic Artery, Open Approach			
		18. 04Q50ZZ	18. Repair Superior Mesenteric Artery, Open Approach			
		19. 04QY0ZZ	19. Repair Lower Artery, Open Approach			
		20. 06Q70ZZ	20. Repair Colic Vein, Open Approach			
		21. 06QD0ZZ	21. Repair Left Common Iliac Vein, Open Approach			
		22. 06QC0ZZ	22. Repair Right Common Iliac Vein, Open Approach			
		23. 06QG0ZZ	23. Repair Left External Iliac Vein, Open Approach			
		24. 06QF0ZZ	24. Repair Right External Iliac Vein, Open Approach			
		25. 06Q20ZZ	25. Repair Gastric Vein, Open Approach			
		26. 06Q40ZZ	26. Repair Hepatic Vein, Open Approach			
		27. 06QJ0ZZ	27. Repair Left Hypogastric Vein, Open Approach			
		28. 06QH0ZZ	28. Repair Right Hypogastric Vein, Open Approach			
		29. 06Q60ZZ	29. Repair Inferior Mesenteric Vein, Open Approach			
		30. 06QY0ZZ	30. Repair Lower Vein, Open Approach			
		31. 06Q80ZZ	31. Repair Portal Vein, Open Approach			
		32. 06QB0ZZ	32. Repair Left Renal Vein, Open Approach			
		33. 06Q90ZZ	33. Repair Right Renal Vein, Open Approach			
		34. 06Q10ZZ	34. Repair Splenic Vein, Open Approach			
		35. 06Q50ZZ	35. Repair Superior Mesenteric Vein, Open Approach			
		36. 04R04KZ	36. Replacement of Abdominal Aorta with Nonautologous Tissue Substitute, Open Approach			
		37. 04R04JZ	37. Replacement of Abdominal Aorta with Synthetic Substitute, Open Approach			
		38. 04R10KZ	38. Replacement of Celiac Artery with Nonautologous Tissue Substitute, Open Approach			
		39. 04R10JZ	39. Replacement of Celiac Artery with Synthetic Substitute, Open Approach			
		40. 04R70KZ	40. Replacement of Left Colic Artery with Nonautologous Tissue Substitute, Open Approach			
		41. 04R70JZ	41. Replacement of Left Colic Artery with Synthetic Substitute, Open Approach			
		42. 04R80KZ	42. Replacement of Middle Colic Artery with Nonautologous Tissue Substitute, Open Approach			
		43. 04R80JZ	43. Replacement of Middle Colic Artery with Synthetic Substitute, Open Approach			
		44. 04R60KZ	44. Replacement of Right Colic Artery with Nonautologous Tissue Substitute, Open Approach			
		45. 04R60JZ	45. Replacement of Right Colic Artery with Synthetic Substitute, Open Approach			
		46. 04RD0KZ	46. Replacement of Left Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach			

47. 04RD0JZ	47. Replacement of Left Common Iliac Artery with Synthetic Substitute, Open Approach
48. 04RCOKZ	48. Replacement of Right Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach
49. 04RC0JZ	49. Replacement of Right Common Iliac Artery with Synthetic Substitute, Open Approach
50. 04RJ0KZ	50. Replacement of Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach
51. 04RJ0JZ	51. Replacement of Left External Iliac Artery with Synthetic Substitute, Open Approach
52. 04RH0KZ	52. Replacement of Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach
53. 04RH0JZ	53. Replacement of Right External Iliac Artery with Synthetic Substitute, Open Approach
54. 04R20KZ	54. Replacement of Gastric Artery with Nonautologous Tissue Substitute, Open Approach
55. 04R20JZ	55. Replacement of Gastric Artery with Synthetic Substitute, Open Approach
56. 04R30KZ	56. Replacement of Hepatic Artery with Nonautologous Tissue Substitute, Open Approach
57. 04R30JZ	57. Replacement of Hepatic Artery with Synthetic Substitute, Open Approach
58. 04RB0KZ	58. Replacement of Inferior Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach
59. 04RB0JZ	59. Replacement of Inferior Mesenteric Artery with Synthetic Substitute, Open Approach
60. 04RF0KZ	60. Replacement of Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach
61. 04RF0JZ	61. Replacement of Left Internal Iliac Artery with Synthetic Substitute, Open Approach
62. 04RE0KZ	62. Replacement of Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach
63. 04RE0JZ	63. Replacement of Right Internal Iliac Artery with Synthetic Substitute, Open Approach
64. 04RA0KZ	64. Replacement of Left Renal Artery with Nonautologous Tissue Substitute, Open Approach
65. 04RA0JZ	65. Replacement of Left Renal Artery with Synthetic Substitute, Open Approach
66. 04R90KZ	66. Replacement of Right Renal Artery with Nonautologous Tissue Substitute, Open Approach
67. 04R90JZ	67. Replacement of Right Renal Artery with Synthetic Substitute, Open Approach
68. 04R40KZ	68. Replacement of Splenic Artery with Nonautologous Tissue Substitute, Open Approach
69. 04R40JZ	69. Replacement of Splenic Artery with Synthetic Substitute, Open Approach
70. 04R50KZ	70. Replacement of Superior Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach
71. 04R50JZ	71. Replacement of Superior Mesenteric Artery with Synthetic Substitute, Open Approach
72. 04RY0KZ	72. Replacement of Lower Artery with Nonautologous Tissue Substitute, Open Approach
73. 04RY0JZ	73. Replacement of Lower Artery with Synthetic Substitute, Open Approach

35286	lower extremity	1. 04QQ0ZZ 2. 04QP0ZZ 3. 04QL0ZZ 4. 04QK0ZZ 5. 04QW0ZZ 6. 04QV0ZZ 7. 04QU0ZZ 8. 04QT0ZZ 9. 04QN0ZZ 10. 04QM0ZZ 11. 04QS0ZZ 12. 04QR0ZZ 13. 04QY0ZZ  14. 06QN0ZZ 15. 06QM0ZZ 16. 06QV0ZZ 17. 06QT0ZZ 18. 06QY0ZZ 19. 06QQ0ZZ 20. 06QP0ZZ  21. 04RQ0KZ 22. 04RQ0JZ 23. 04RP0KZ 24. 04RP0JZ 25. 04RL0KZ 26. 04RLOJZ 27. 04RW0KZ 28. 04RW0JZ 29. 04RV0KZ 30. 04RV0JZ 31. 04RU0KZ	1. Repair Left Anterior Tibial Artery, Open Approach 2. Repair Right Anterior Tibial Artery, Open Approach 3. Repair Left Femoral Artery, Open Approach 4. Repair Right Femoral Artery, Open Approach 5. Repair Left Foot Artery, Open Approach 6. Repair Right Foot Artery, Open Approach 7. Repair Left Peroneal Artery, Open Approach 8. Repair Right Peroneal Artery, Open Approach 9. Repair Left Popliteal Artery, Open Approach 10. Repair Right Popliteal Artery, Open Approach 11. Repair Left Posterior Tibial Artery, Open Approach 12. Repair Right Posterior Tibial Artery, Open Approach 13. Repair Lower Artery, Open Approach  14. Repair Left Femoral Vein, Open Approach 15. Repair Right Femoral Vein, Open Approach 16. Repair Left Foot Vein, Open Approach 17. Repair Right Foot Vein, Open Approach 18. Repair Lower Vein, Open Approach 19. Repair Left Saphenous Vein, Open Approach 20. Repair Right Saphenous Vein, Open Approach  21. Replacement of Left Anterior Tibial Artery with Nonautologous Tissue Substitute, Open Approach 22. Replacement of Left Anterior Tibial Artery with Synthetic Substitute, Open Approach 23. Replacement of Right Anterior Tibial Artery with Nonautologous Tissue Substitute, Open Approach 24. Replacement of Right Anterior Tibial Artery with Synthetic Substitute, Open Approach 25. Replacement of Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach 26. Replacement of Left Femoral Artery with Synthetic Substitute, Open Approach 27. Replacement of Left Foot Artery with Nonautologous Tissue Substitute, Open Approach 28. Replacement of Left Foot Artery with Synthetic Substitute, Open Approach 29. Replacement of Right Foot Artery with Nonautologous Tissue Substitute, Open Approach 30. Replacement of Right Foot Artery with Synthetic Substitute, Open Approach 31. Replacement of Left Peroneal Artery with Nonautologous Tissue Substitute, Open Approach			
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