2018 New Endovascular Repair CPT* Codes

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EVAR or EVR?

• Previously we called these “EVAR” for EndoVascular Aneurysm Repair.

• The new codes are reportable for a limited number of additional diagnoses, thus “EVR” for EndoVascular Repair.

• See formal CPT descriptors on slides 28-47 for exact reporting details. Also, please read Introductory Material for these codes in the 2018 CPT manual.
New EVR Codes for 2018

• Entire old EVAR family has been deleted

• In the new EVR family:
  • Main codes are based on anatomy instead of device type
  • Whole new family of EVR for ruptured AAAs
  • New code for enhanced fixation (e.g. endostaple)
  • New code for Pre-Close
  • Open exposure codes are now add-ons
These Codes are Gone!

34800 EVAR with aorto-aortic tube
34802 EVAR with 2-piece modular endograft
34803 EVAR with 3-piece modular endograft
34804 EVAR with bifurcated unibody endograft
34805 EVAR aorto-uni-iliac
34825 Proximal or distal extension, 1st vessel
34826 Extension in additional vessel
34900 Endovascular iliac aneurysm repair
These Codes are also Gone!

75952 Radiologic S&I for EVAR
75953 Radiologic S&I for first vessel extension
75954 Radiologic S&I for endovascular iliac
## Main Endograft Codes

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elective Code</th>
<th>Ruptured Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aorto-Aortic tube</td>
<td>34701</td>
<td>34702</td>
</tr>
<tr>
<td>Aorto-Uni-Iliac</td>
<td>34703</td>
<td>34704</td>
</tr>
<tr>
<td>Aorto-Bi-Iliac</td>
<td>34705</td>
<td>34706</td>
</tr>
<tr>
<td>Unilateral Iliac tube</td>
<td>34707</td>
<td>34708</td>
</tr>
</tbody>
</table>
## Extensions

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension during original operation</td>
<td>34709</td>
</tr>
<tr>
<td>Extension during separate subsequent operation</td>
<td>34710</td>
</tr>
<tr>
<td>Extension in additional vessel at original or subsequent operation</td>
<td>34711</td>
</tr>
</tbody>
</table>

- Extension at original operation can be reported only if it covers a renal proximally, or if it crosses the iliac bifurcation distally.
# Endo-Anchor & Pre-Close

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transcatheter Fixation Device</td>
<td>34712</td>
</tr>
<tr>
<td>Percutaneous Closure Device – 12 French or larger - unilateral</td>
<td>34713</td>
</tr>
</tbody>
</table>

- ✓ 34712 is a 90-day global code. Use it as an independent procedure or during initial operation.

- ✓ Use “Units of 2” if you perform Pre-Close bilaterally.
## Open Exposures & Conduits

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open femoral exposure</td>
<td>34812</td>
</tr>
<tr>
<td>Open femoral exposure with conduit</td>
<td>34714</td>
</tr>
<tr>
<td>Open iliac exposure</td>
<td>34820</td>
</tr>
<tr>
<td>Open iliac exposure with conduit</td>
<td>34833</td>
</tr>
<tr>
<td>Open brachial exposure</td>
<td>34834</td>
</tr>
<tr>
<td>Open axillary or subclavian exposure</td>
<td>34715</td>
</tr>
<tr>
<td>Open axillary or subclavian exposure with conduit</td>
<td>34716</td>
</tr>
</tbody>
</table>

✓ These are all “add-on” codes.

✓ Use “Units of 2” if you perform bilaterally.

✓ Confusing in that some are “347xx” and some are “348xx”
Slides 11-20 use simplified, unofficial descriptors.

Formal CPT descriptors are on slides 28-47.
Aorto-aortic tube

34701 Endovascular repair with aorto-aortic endograft. Procedure includes:
• Pre-procedure sizing and device selection
• All nonselective catheterizations
• All associated radiological supervision and interpretation
• All extensions placed from lowest renal to aortic bifurcation
• All angioplasty/stenting performed in aorta
• Use for elective AAA, pseudoaneurysm, dissection, penetrating ulcer.

34702 Endovascular aorto-aortic endograft for rupture, includes balloon occlusion of aorta, if performed.
Aorto-Uni-Iliac

34703 Endovascular repair with Aorto-uni-iliac endograft. Includes:

- Pre-procedure sizing and device selection
- All nonselective catheterizations
- All associated radiological S&I
- All endograft extensions from renals to iliac bifurcation
- All angioplasty/stenting from renals to iliac bifurcation
- Use for elective AAA, pseudoaneurym, dissection, penetrating ulcer

34704 Aorto-uni-iliac endograft for rupture. Includes temporary aortic balloon occlusion, if performed.
Aorto-Bi-Iliac

34705 Aorto-bi-iliac endograft. Includes:
- Pre-procedure sizing and device selection
- All nonselective catheterizations
- All associated radiological S&I
- All extensions from renals to the iliac bifurcations
- All angioplasty/stenting from renals to iliac bifurcations
- Use for elective AAA, pseudoaneurysm, dissection, penetrating ulcer

34706 Aorto-bi-iliac endograft for rupture.
Includes temporary balloon occlusion of aorta, if performed.
34707 Endovascular ilio-iliac tube. Includes:
- All pre-procedure sizing and device selection
- All nonselective catheterizations
- All radiological S&I
- All extensions from aortic bifurcation to iliac bifurcation
- All angioplasty/stenting in treatment zone
- Use for elective iliac aneurysm, pseudoaneurysm, dissection, AVM.

34708 Endovascular ilio-iliac tube for rupture
- Includes temporary aortic and/or iliac balloon occlusion, if performed
- Use for ruptured iliac aneurysm, pseudoaneurysm dissection, AVM, traumatic disruption
Extension at Original Operation

34709 Extension distal to the common iliac or proximal to the renals. Procedure includes:
- All pre-procedure sizing and device selection
- All nonselective catheterizations
- All associated radiological S&I
- Treatment zone angioplasty/stenting
- For initial vessel treated

+34711 each additional vessel treated with an extension.

The “+” sign indicates an “add-on” code.
Extension at Separate Operation

34710 Delayed distal or proximal extension. Procedure includes:

- Pre-procedure sizing and device selection
- All nonselective catheterizations
- All associated radiological S&I
- Treatment zone angioplasty/stenting
- For initial vessel treated

+34711 each additional vessel treated

The “+” sign indicates an add-on code.
34712 Transcatheter delivery of enhanced fixation device(s) to the endograft (eg, anchor, screw, tack) and all associated radiological supervision & interpretation
Percutaneous Arterial Access

+34713 Percutaneous access and closure of femoral artery for delivery of endograft through a large sheath (12 French or larger), including ultrasound guidance, when performed, unilateral.

The “+” sign indicates an add-on code.
Open Arterial Access

**+34812** Open femoral artery exposure for delivery of endovascular prosthesis, by groin incision, unilateral

**+34714** Open femoral artery exposure with creation of conduit for delivery of endovascular prosthesis or for cardiopulmonary bypass, by groin incision

**+34820** Open iliac artery exposure for delivery of endovascular prosthesis or iliac occlusion during endovascular therapy, by abdominal or retroperitoneal incision, unilateral

**+34833** Open iliac artery exposure with conduit

The “+” sign indicates these are all add-on codes.
Open Arterial Access

+34834 Open brachial artery exposure for delivery of endovascular prosthesis, unilateral

+34715 Open axillary/subclavian artery exposure for delivery of endovascular prosthesis by infraclavicular or supraclavicular incision, unilateral

+34716 Open axillary/subclavian artery exposure with creation of conduit for delivery of endovascular prosthesis or for establishment of cardiopulmonary bypass, by infraclavicular or supraclavicular incision, unilateral

The “+” sign indicates these are all add-on codes.
## Work RVUs of Primary EVR Codes

<table>
<thead>
<tr>
<th>CPT Code</th>
<th>Description</th>
<th>SVS Rec RVU</th>
<th>RUC Rec RVU</th>
<th>CMS Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>34701</td>
<td>Elective Aorto-Aortic EVR</td>
<td>25.00</td>
<td>23.71</td>
<td>23.71</td>
</tr>
<tr>
<td>34702</td>
<td>Ruptured Aorto-Aortic EVR</td>
<td>39.69</td>
<td>36.00</td>
<td>36.00</td>
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<tr>
<td>34703</td>
<td>Elective Aorto-Uni-Iliac EVR</td>
<td>30.25</td>
<td>26.52</td>
<td>26.52</td>
</tr>
<tr>
<td>34704</td>
<td>Ruptured Aorto-Uni-Iliac EVR</td>
<td>47.00</td>
<td>45.00</td>
<td>45.00</td>
</tr>
<tr>
<td>34705</td>
<td>Elective Aorto-Bi-Iliac EVR</td>
<td>32.28</td>
<td>29.58</td>
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</tr>
<tr>
<td>34706</td>
<td>Ruptured Aorto-Bi-Iliac EVR</td>
<td>50.00</td>
<td>45.00</td>
<td>45.00</td>
</tr>
<tr>
<td>34707</td>
<td>Elective Iliac EVR</td>
<td>24.00</td>
<td>22.28</td>
<td>22.28</td>
</tr>
<tr>
<td>34708</td>
<td>Ruptured Iliac EVR</td>
<td>36.50</td>
<td>36.50</td>
<td>36.50</td>
</tr>
</tbody>
</table>
## Work RVUs of Extensions & Anchor

<table>
<thead>
<tr>
<th>CPT Code</th>
<th>Description</th>
<th>SVS Rec RVU</th>
<th>RUC Rec RVU</th>
<th>CMS Final RVU</th>
</tr>
</thead>
<tbody>
<tr>
<td>+34709</td>
<td>Placement of extension at initial procedure</td>
<td>6.50</td>
<td>6.50</td>
<td>6.50</td>
</tr>
<tr>
<td>34710</td>
<td>Delayed placement of extension prosthesis</td>
<td>17.00</td>
<td>15.00</td>
<td>15.00</td>
</tr>
<tr>
<td>+34711</td>
<td>Placement of extension at initial procedure</td>
<td>6.00</td>
<td>6.00</td>
<td>6.00</td>
</tr>
<tr>
<td>34712</td>
<td>Enhanced fixation device</td>
<td>14.00</td>
<td>12.00</td>
<td>12.00</td>
</tr>
</tbody>
</table>

✓ “+” sign indicates add-on code

✓ Add-on codes are not subject to multiple procedure payment reduction. They get full RVU payment as in table.

✓ Report “2 units” if you perform bilateral add-on codes.
# Work RVUs of Open Access Codes

<table>
<thead>
<tr>
<th>CPT Code</th>
<th>Description</th>
<th>SVS Rec RVU</th>
<th>RUC Rec RVU</th>
<th>CMS Final RVU</th>
</tr>
</thead>
<tbody>
<tr>
<td>+34713</td>
<td>Percutaneous access and closure</td>
<td>2.50</td>
<td>2.50</td>
<td>2.50</td>
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<tr>
<td>+34812</td>
<td>Open femoral exposure</td>
<td>4.13</td>
<td>4.13</td>
<td>4.13</td>
</tr>
<tr>
<td>+34714</td>
<td>Open femoral exposure with conduit</td>
<td>6.13</td>
<td>5.25</td>
<td>5.25</td>
</tr>
<tr>
<td>+34820</td>
<td>Open iliac exposure</td>
<td>7.00</td>
<td>7.00</td>
<td>7.00</td>
</tr>
<tr>
<td>+34833</td>
<td>Open iliac exposure with conduit</td>
<td>9.00</td>
<td>8.16</td>
<td>8.16</td>
</tr>
<tr>
<td>+34834</td>
<td>Open brachial exposure</td>
<td>2.65</td>
<td>2.65</td>
<td>2.65</td>
</tr>
<tr>
<td>+34715</td>
<td>Open axillary/subclavian exposure</td>
<td>6.00</td>
<td>6.00</td>
<td>6.00</td>
</tr>
<tr>
<td>+34716</td>
<td>Open axillary/subclavian exposure with conduit</td>
<td>8.00</td>
<td>7.19</td>
<td>7.19</td>
</tr>
</tbody>
</table>

- These are all add-on codes.
- Report “2 units” if you perform bilateral.
Gains & Losses

• Gains:
  • New codes for ruptured aneurysm repair
  • New code for enhanced fixation
  • All access codes are now add-on codes
  • New code for percutaneous access
  • New codes for alternative access options

• Losses:
  • Catheterization is now bundled
  • Radiographic S&I is now bundled
  • All extensions between renals and iliac bifurcations are bundled during original operation.
Financial Impact

• Reimbursement impact will vary based on your practice patterns:
  – Gains for providers who predominantly use percutaneous access
  – Large gains for those who repair ruptured AAAs
  – Losses for those who use many extensions
2018 New EVR Codes with complete formal CPT Descriptors
Endovascular repair of infrarenal aorta by deployment of an aorto-aortic tube endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, all endograft extension(s) placed in the aorta from the level of the renal arteries to the aortic bifurcation, and all angioplasty/stenting performed from the level of the renal arteries to the aortic bifurcation; for other than rupture (eg, for aneurysm, pseudoaneurysm, dissection, penetrating ulcer)
Endovascular repair of infrarenal aorta by deployment of an aorto-aortic tube endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, all endograft extension(s) placed in the aorta from the level of the renal arteries to the aortic bifurcation, and all angioplasty/stenting performed from the level of the renal arteries to the aortic bifurcation; for rupture including temporary aortic and/or iliac balloon occlusion when performed (eg, for aneurysm, pseudoaneurysm, dissection, penetrating ulcer, traumatic disruption)
Endovascular repair of infrarenal aorta and/or iliac artery(ies) by deployment of an aorto-uniiliac endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, all endograft extension(s) placed in the aorta from the level of the renal arteries to the iliac bifurcation, and all angioplasty/stenting performed from the level of the renal arteries to the iliac bifurcation; for other than rupture (eg, for aneurysm, pseudoaneurysm, dissection, penetrating ulcer)
Endovascular repair of infrarenal aorta and/or iliac artery(ies) by deployment of an aorto-uniiliac endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, all endograft extension(s) placed in the aorta from the level of the renal arteries to the iliac bifurcation, and all angioplasty/stenting performed from the level of the renal arteries to the iliac bifurcation; for rupture, including temporary aortic and/or iliac balloon occlusion when performed (eg, for aneurysm, pseudoaneurysm, dissection, penetrating ulcer, traumatic disruption)
Endovascular repair of infrarenal aorta and/or iliac artery(ies) by deployment of an aorto-biiliac endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, all endograft extension(s) placed in the aorta from the level of the renal arteries to the iliac bifurcation, and all angioplasty/stenting performed from the level of the renal arteries to the iliac bifurcation; for other than rupture (eg, for aneurysm, pseudoaneurysm, dissection, penetrating ulcer)
Endovascular repair of infrarenal aorta and/or iliac artery(ies) by deployment of an aorto-biiliac endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, all endograft_extension(s) placed in the aorta from the level of the renal arteries to the iliac bifurcation, and all angioplasty/stenting performed from the level of the renal arteries to the iliac bifurcation; for rupture, including temporary aortic and/or iliac balloon occlusion when performed (eg, for aneurysm, pseudoaneurysm, dissection, penetrating ulcer, traumatic disruption)
Endovascular repair of iliac artery by deployment of an ilio-iliac tube endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, and all endograft extension(s) proximally to the aortic bifurcation and distally to the iliac bifurcation, and treatment zone angioplasty/stenting when performed, unilateral; for other than rupture (eg, for aneurysm, pseudoaneurysm, dissection, arteriovenous malformation)
Endovascular repair of iliac artery by deployment of an ilio-iliac tube endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, and all endograft extension(s) proximally to the aortic bifurcation and distally to the iliac bifurcation, and treatment zone angioplasty/stenting when performed, unilateral; for rupture, including temporary aortic and/or iliac balloon occlusion when performed (eg, for aneurysm, pseudoaneurysm, dissection, arteriovenous malformation, traumatic disruption)
Placement of extension prosthesis(es) distal to the common iliac artery(ies) or proximal to the renal artery(ies) for endovascular repair of infrarenal abdominal aortic or iliac aneurysm, false aneurysm, dissection, penetrating ulcer, including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, and treatment zone angioplasty/stenting when performed, per vessel treated (List separately in addition to code for primary procedure)
Delayed placement of distal or proximal extension prosthesis for endovascular repair of infrarenal abdominal aortic or iliac aneurysm, false aneurysm, dissection, endoleak, or endograft migration, including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, and treatment zone angioplasty/stenting when performed; initial vessel treated
Delayed placement of distal or proximal extension prosthesis for endovascular repair of infrarenal abdominal aortic or iliac aneurysm, false aneurysm, dissection, endoleak, or endograft migration, including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, and treatment zone angioplasty/stenting when performed; each additional vessel treated (List separately in addition to code for primary procedure)
Transcatheter delivery of enhanced fixation device(s) to the endograft (eg, anchor, screw, tack) and all associated radiological supervision and interpretation
Percutaneous access and closure of femoral artery for delivery of endograft through a large sheath (12 French or larger), including ultrasound guidance, when performed, unilateral (List separately in addition to code for primary procedure)
+34812

Open femoral artery exposure for delivery of endovascular prosthesis by groin incision, unilateral (List separately in addition to code for primary procedure)
Open femoral artery exposure with creation of conduit for delivery of endovascular prosthesis or for establishment of cardiopulmonary bypass, by groin incision, unilateral (List separately in addition to code for primary procedure)
Open iliac artery exposure for delivery of endovascular prosthesis or iliac occlusion by abdominal or retroperitoneal incision, unilateral (List separately in addition to code for primary procedure)
Open iliac artery exposure with creation of conduit for delivery of endovascular prosthesis or for establishment of cardiopulmonary bypass, by abdominal or retroperitoneal incision, unilateral (List separately in addition to code for primary procedure)
Open brachial artery exposure for delivery of endovascular prosthesis, unilateral (List separately in addition to code for primary procedure)
Open axillary/subclavian artery exposure for delivery of endovascular prosthesis by infraclavicular or supraclavicular incision, unilateral (List separately in addition to code for primary procedure)
Open axillary/subclavian artery exposure with creation of conduit for delivery of endovascular prosthesis or for establishment of cardiopulmonary bypass, by infraclavicular or supraclavicular incision, unilateral (List separately in addition to code for primary procedure)