**AAA Sensitive**

**Phenotype goal**

Detect most patients who have abdominal aortic aneurism (AAA), including those aneurysms that extend beyond the abdomen.

**Phenotype narrative**

Include AAA diagnoses and repair code (see CPT codes). Circumvent a bug in the OMOP terminology around AAA (should be addressed soon, but the fix here should still work).

CPT codes:

34800 (Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using aorto‐ aortic tube prosthesis)

34802 (Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using modular bifurcated prosthesis (1 docking limb))

34803 (Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using modular bifurcated prosthesis (2 docking limbs))

34804 (Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using unibody bifurcated prosthesis)

34805 (Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using aorto‐ uniiliac or aorto‐unifemoral prosthesis)

34830 (Open repair of infrarenal aortic aneurysm or dissection, plus repair of associated arterial trauma, following unsuccessful endovascular repair; tube prosthesis)

34831 (Open repair of infrarenal aortic aneurysm or dissection, plus repair of associated arterial trauma, following unsuccessful endovascular repair; aorto‐bi‐iliac prosthesis)

34832 (Open repair of infrarenal aortic aneurysm or dissection, plus repair of associated arterial trauma, following unsuccessful endovascular repair; aorto‐bifemoral prosthesis)

35081 (Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, abdominal aorta)

35082 (Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, abdominal aorta)

35091 (Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, abdominal aorta involving visceral vessels (mesenteric, celiac, renal))

35092 (Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, abdominal aorta involving visceral vessels (mesenteric, celiac, renal))

35102 (Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, abdominal aorta involving iliac vessels (common, hypogastric, external))

35103 (Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, abdominal aorta involving iliac vessels (common, hypogastric, external))

35131 (Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, iliac artery (common, hypogastric, external))

35132 (Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, iliac artery (common, hypogastric, external))

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**Text view**

Initial Event Cohort

People having any of the following:

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* /ko
* ko with: Criteria a procedure of AAA eMERGE AAA repair procedures1
* ko if: ko.utils.unwrapObservable(First) != null /ko ko if: ko.utils.unwrapObservable(OccurrenceStartDate) != null /ko ko if: ko.utils.unwrapObservable(ProcedureType) != null /ko ko if: ko.utils.unwrapObservable(Modifier) != null /ko ko if: ko.utils.unwrapObservable(Quantity) != null /ko ko if: ko.utils.unwrapObservable(ProcedureSourceConcept) != null /ko ko if: ko.utils.unwrapObservable(Age) != null /ko ko if: ko.utils.unwrapObservable(Gender) != null /ko ko if: ko.utils.unwrapObservable(ProviderSpecialty) != null /ko ko if: ko.utils.unwrapObservable(VisitType) != null /ko ko if: ko.utils.unwrapObservable(CorrelatedCriteria) != null /ko
* /ko
* /ko

with continuous observation of at least 0 days prior and 0 days after event index date, and limit initial events to: **earliest event per person.**

Limit qualifying cohort to: **earliest event per person.**

No end date strategy selected. By default, the cohort end date will be the end of the observation period that contains the index event.

ko if: expression().CensoringCriteria().length > 0 /ko

Appendix 1: Concept Set Definitions

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1. AAA eMERGE AAA repair procedures

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Concept Id** | **Concept Name** | **Domain** | **Vocabulary** | **Excluded** | **Descendants** | **Mapped** |
| 2107631 | Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, abdominal aorta | Procedure | CPT4 | NO | YES | NO |
| 2107645 | Repair of aortoiliac pseudoaneurysm using graft, with anastomosis of common iliac, renal, and mesenteric arteries to graft | Procedure | CPT4 | NO | YES | NO |
| 2107643 | Repair of abdominal aortic pseudoaneurysm using graft, with anastomosis of mesenteric and renal arteries to graft | Procedure | CPT4 | NO | YES | NO |
| 2107664 | Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, iliac artery (common, hypogastric, external) | Procedure | CPT4 | NO | YES | NO |
| 2107642 | Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, abdominal aorta | Procedure | CPT4 | NO | YES | NO |
| 2107646 | Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, abdominal aorta involving iliac vessels (common, hypogastric, external) | Procedure | CPT4 | NO | YES | NO |
| 2107644 | Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, abdominal aorta involving visceral vessels (mesenteric, celiac, renal) | Procedure | CPT4 | NO | YES | NO |
| 2107665 | Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, iliac artery (common, hypogastric, external) | Procedure | CPT4 | NO | YES | NO |
| 2107573 | Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using aorto-aortic tube prosthesis | Procedure | CPT4 | NO | YES | NO |
| 2107577 | Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using aorto-uniiliac or aorto-unifemoral prosthesis | Procedure | CPT4 | NO | YES | NO |
| 2107574 | Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using modular bifurcated prosthesis (1 docking limb) | Procedure | CPT4 | NO | YES | NO |
| 2107575 | Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using modular bifurcated prosthesis (2 docking limbs) | Procedure | CPT4 | NO | YES | NO |
| 2107576 | Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using unibody bifurcated prosthesis | Procedure | CPT4 | NO | YES | NO |
| 2107596 | Open repair of infrarenal aortic aneurysm or dissection, plus repair of associated arterial trauma, following unsuccessful endovascular repair; aorto-bi-iliac prosthesis | Procedure | CPT4 | NO | YES | NO |
| 2107597 | Open repair of infrarenal aortic aneurysm or dissection, plus repair of associated arterial trauma, following unsuccessful endovascular repair; aorto-bifemoral prosthesis | Procedure | CPT4 | NO | YES | NO |
| 2107595 | Open repair of infrarenal aortic aneurysm or dissection, plus repair of associated arterial trauma, following unsuccessful endovascular repair; tube prosthesis | Procedure | CPT4 | NO | YES | NO |

2. Abdominal aortic aneurysm

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Concept Id** | **Concept Name** | **Domain** | **Vocabulary** | **Excluded** | **Descendants** | **Mapped** |
| 198177 | Abdominal aortic aneurysm | Condition | SNOMED | NO | YES | NO |
| 321314 | Abdominal aortic aneurysm without rupture | Condition | SNOMED | NO | YES | NO |
| 436996 | Thoracoabdominal aortic aneurysm | Condition | SNOMED | NO | YES | NO |
| 195559 | Ruptured abdominal aortic aneurysm | Condition | SNOMED | NO | YES | NO |
| 433222 | Thoracoabdominal aortic aneurysm, ruptured | Condition | SNOMED | NO | YES | NO |
| 40323994 | Abdominal aortic aneurysm | Condition | SNOMED | NO | YES | NO |

==========================================================

**JSON**

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