## CABG algorithm summary (1/2)

<table>
<thead>
<tr>
<th>Trigger</th>
<th>A trigger for a CABG episode is a CABG procedure. Triggers must be associated with a hospitalization with a diagnosis of heart disease or with a procedure code for CABG</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAP</td>
<td>The PAP is the physician entity that performs the CABG</td>
</tr>
</tbody>
</table>
| Episode exclusions | Episodes meeting one or more of the following criteria will be excluded:  
- Inconsistent enrollment (i.e. not continuously enrolled) during the episode  
- Claims during the episode that are covered by a third party  
- Dual coverage of primary medical services by Medicaid and Medicare  
- PAP is a FQHC  
- PAP’s practice location is outside AR, LA, MO, MS, OK, TN, or TX  
- Billing provider ID of the PAP is not available  
- Claims information during the episode is missing or miscoded  
- Younger than eighteen (<18) years of age  
- Left against medical advice or discontinued care  
- Dies in the hospital during the episode  
- Comorbidities for which the medical risk cannot be reliably understood or measured\(^1\) (e.g. Acute kidney failure, cancer, HIV, two or more valve procedures) |
| Episode window | Episodes begin on the first day of a trigger and end 30-days after discharge from the facility in which the procedure occurred, or at the end of a readmission where the patient had entered the hospital within the 30 day post-discharge period |
| Claims included | All claims for the trigger hospitalization are included in the calculation of episode spend. During the 30 day post-trigger window, inpatient, outpatient, professional, and pharmacy claims that are related to the coronary arterial system are included in the calculation of episode spend |
| Quality measures | **Quality measures “to pass”:**  
- Percent of valid episodes with an adverse outcome during the trigger window or the post-trigger window. Adverse outcomes are defined as stroke, sternal wound infection, or post-operative renal failure. The maximum threshold is 0% on two or more of the three adverse outcomes  
**Quality measures “to track”:**  
- Percent of episodes during which at least one adverse outcome occurs  
- Percent of patients on a ventilator for longer than 24 hours after surgery  
- Average length of pre-operative inpatient stay  
- Percent of patients admitted on day of surgery  
- Percent of patients for whom an internal mammary artery is used |

---

\(^1\) Not an exhaustive list.
### Adjustments
For the purpose of determining a PAP’s performance, the episode spend is adjusted to reflect risk and/or severity factors of the patient and to account for fee schedule changes for certain medical services.

<table>
<thead>
<tr>
<th>Example trigger codes</th>
<th>Procedure codes include: 33510, 33511, 33512, 33513, 33514, 33516, 33517, 33518, 33519, 33521, 33522, 33523, 33533, 33534, 33535, 33536</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example episode exclusion codes</td>
<td>Diagnosis codes include: V568, V5632, V5631, V563, V562, V561, V560, V461, V4512, V4511, V420, 78551, 5856, 5855, 4467, 4466, 4465, 4464, 4463, 44629, 44621, 44620, 4461, 4460</td>
</tr>
<tr>
<td>Revenue codes include: 080x, 028x</td>
<td></td>
</tr>
<tr>
<td>Example included claims codes</td>
<td>Diagnosis codes include: 41419, 41412, 41411, 41410, 41407, 41406, 41405, 41404, 41403, 41402, 41401, 41400, 41189, 41181, 41092, 41091, 41090, 41082, 41081, 41080, 41072, 41071, 41070, 41062, 41061, 41060, 41052, 41051, 41050, 41042, 41041, 41040, 41032, 41031, 41030, 41022, 41021, 41020, 41012, 41011, 41010, 41002, 41001, 41000, 4243, 4242, 4241, 4240</td>
</tr>
</tbody>
</table>

Procedure codes include: 33510, 33511, 33512, 33513, 33514, 33516, 33517, 33518, 33519, 33521, 33522, 33523, 33533, 33534, 33535, 33536, 71010, 71015, 71020, 71021, 71022, 71023, 71030, 71034, 71035, 75557, 75559, 75561, 75563, 75565, 75571, 75572, 75573, 75574, 75600, 75605, 75625, 75630, 75635, 75658, 75705, 75710, 75716, 75726, 75731, 75733, 75736, 75741, 75743, 75746, 75756, 75774, 75791, 93000, 93005, 93010, 93451, 93452, 93453, 93454, 93455, 93456, 93457, 93458, 93459, 93460, 93461, 93501, 93508, 93510, 93511, 93514, 93524, 93526, 93527, 93528, 93529 |


---

1 Not an exhaustive list.