TEMP-07-CARD: (Inverse Measure)
Percentage of adult patients undergoing an open cardiac procedure for whom core temperature was ≥37.5 °C (99.5 °F) for over 5 consecutive minutes while on cardiopulmonary bypass.

Measure Time Period
Measure Start:
- Cardiopulmonary Bypass Initiated (ID:50410). If not present,
  Cardiopulmonary Bypass Start
Measure End:
- Cardiopulmonary Bypass Terminated (ID:50409). If not present,
  Cardiopulmonary Bypass End
  Anesthesia End

Start: All patients
Age < 18 years
Exclude

AIA 5 & 6 including Organ Procurement
Exclude

Open cardiac case? Determined by Procedure Type: Cardiac
Exclude

Did patient require Cardiopulmonary Bypass?
Exclude

Determine Measure Start
Measure Start:
- Cardiopulmonary Bypass Initiated (ID:50410).
- Cardiopulmonary Bypass Start

Was last temperature within 5 minutes before CBP start > 37.5 °C (99.5 °F)?

Was there less than 5 consecutive minutes of non-artifact body temperature > 37.5 °C during measure time period?

Pass
Flag

Adjust Measure Start Time: 30 minutes after CBP Start

Artefakt Algorithm:
- Less than 32.0 °C (89.6°F)
- Greater than 40.0 °C (104.0°F)
- Any minute to minute jumps > 1°C/2min
  - Example: 0.2°C/2min, 0.5°C/2min, 3°C/2min

All core temperature measurements will be prioritised over mean-core measurements with hierarchy applied in the following order:
- Arterial Bypass Cannula Temperature (Concept ID: 3260)
- Nasopharyngeal (Concept ID: 3059)
- Esophageal (Concept ID: 3055)
- Bladder (Concept ID: 3056)
- Rectal (Concept ID: 3061)
- Zero-flux thermometer (non-core) – via keyword search of temperature routes
- Other non-core routes (axillary, oral, skin, temporal, tympanic, unspecified)