This form contains the measure information submitted by stewards. Blank fields indicate no information was provided. Attachments also may have been submitted and are provided to reviewers. The sub-criteria and most of the footnotes from the evaluation criteria are provided in Word comments and will appear if your cursor is over the highlighted area (or in the margin if your Word program is set to show revisions in balloons). Hyperlinks to the evaluation criteria and ratings are provided in each section.

TAP/Workgroup (if utilized): Complete all yellow highlighted areas of the form. Evaluate the extent to which each sub-criterion is met. Based on your evaluation, summarize the strengths and weaknesses in each section.

Note: If there is no TAP or workgroup, the SC also evaluates the sub-criteria (yellow highlighted areas).

Steering Committee: Complete all pink highlighted areas of the form. Review the workgroup/TAP assessment of the sub-criterion, noting any areas of disagreement; then evaluate the extent to which each major criterion is met; and finally, indicate your recommendation for the endorsement. Provide the rationale for your ratings.

Evaluation ratings of the extent to which the criteria are met
C = Completely (unquestionably demonstrated to meet the criterion)
P = Partially (demonstrated to partially meet the criterion)
M = Minimally (addressed BUT demonstrated to only minimally meet the criterion)
N = Not at all (NOT addressed; OR incorrectly addressed; OR demonstrated to NOT meet the criterion)
NA = Not applicable (only an option for a few sub-criteria as indicated)

(for NQF staff use) NQF Review #: ACP-019-10  NQF Project: Ambulatory Care - Additional Outpatient Measures 2010

DEASURE DESCRIPTIVE INFORMATION
De.1 Measure Title: Troponin results for Emergency Department acute myocardial infarction (AMI) patients or chest pain patients (with Probable Cardiac Chest Pain) Received within 60 minutes of arrival.
De.2 Brief description of measure: Emergency Department acute myocardial infarction (AMI) patients or chest pain patients (with Probable Cardiac Chest Pain) with an order for Troponin during the stay and having a time from ED arrival to completion of Troponin results within 60 minutes of arrival.
De.3 Type of Measure: process
De.4 If included in a composite or paired with another measure, please identify composite or paired measure N/A
De.5 National Priority Partners Priority Area: safety
De.6 IOM Quality Domain: timeliness
De.7 Consumer Care Need: Getting Better

CONDITIONS FOR CONSIDERATION BY NQF
Four conditions must be met before proposed measures may be considered and evaluated for suitability as voluntary consensus standards:

A. The measure is in the public domain or an intellectual property (measure steward agreement) is signed.
Public domain only applies to governmental organizations. All non-government organizations must sign a measure steward agreement even if measures are made publicly and freely available.
A.1 Do you attest that the measure steward holds intellectual property rights to the measure and the right to use aspects of the measure owned by another entity (e.g., risk model, code set)? Yes
A.2 Indicate if Proprietary Measure (as defined in measure steward agreement):
A.3 Measure Steward Agreement: government entity- public domain- No Agreement
A.4 Measure Steward Agreement attached:

<table>
<thead>
<tr>
<th>B</th>
<th>Y</th>
<th>N</th>
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<tr>
<td>2</td>
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B. The measure owner/steward verifies there is an identified responsible entity and process to maintain and update the measure on a schedule that is commensurate with the rate of clinical innovation, but at least every 3 years. Yes, information provided in contact section

<table>
<thead>
<tr>
<th>C</th>
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C. The intended use of the measure includes both public reporting and quality improvement.

► Purpose: public reporting, quality improvement Payment Incentive, Accountability

D. The requested measure submission information is complete. Generally, measures should be fully developed and tested so that all the evaluation criteria have been addressed and information needed to evaluate the measure is provided. Measures that have not been tested are only potentially eligible for a time-limited endorsement and in that case, measure owners must verify that testing will be completed within 12 months of endorsement.

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<tr>
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</table>

D.1 Testing: No, testing will be completed within 12 months

D.2 Have NQF-endorsed measures been reviewed to identify if there are similar or related measures? Yes

(for NQF staff use) Have all conditions for consideration been met?

Staff Notes to Steward (if submission returned):

Staff Notes to Reviewers (issues or questions regarding any criteria):

Staff Reviewer Name(s):

### Extent to which the specific measure focus is important to making significant gains in health care quality (safety, timeliness, effectiveness, efficiency, equity, patient-centeredness) and improving health outcomes for a specific high impact aspect of healthcare where there is variation in or overall poor performance.

Measures must be judged to be important to measure and report in order to be evaluated against the remaining criteria. (evaluation criteria)

1a. High Impact

(for NQF staff use) Specific NPP goal:

1a.1 Demonstrated High Impact Aspect of Healthcare: affects large numbers, frequently performed procedure

1a.2

1a.3 Summary of Evidence of High Impact: The troponin test is administered when a patient presents to the emergency department (ED) with a suspected heart attack (Lab Tests Online, 2010). In 2006, there were 40.5 ED visits for every 100 people in the United States (Schappert, 2008). In 2004, there were approximately 110.2 million visits to the emergency department (MCCaig, 2006). The rate of ED visits has continued to increase since 1994 for the age groups 22-49 years, 50-64 years, and over 65 years (MCCaig, 2006). Numerous studies have shown compelling reductions in laboratory turnaround time and associations with reduced emergency services diversion and improvements in the average length of stay, care provided to the patient, patient satisfaction, estimated time to treatment, patient throughput, and cost (Derlet, 2001; Caragher 2002; Newby, 2001; Altinier, 2001; McCord, 2001; Apple, 2006).


Apple FS, Chung AY, Kogut ME, Bubany S, Murakami MM. Decreased patient charges following

Rating: C=Completely; P=Partially; M=Minimally; N=Not at all; NA=Not applicable
1b. Opportunity for Improvement

1b.1 Benefits (improvements in quality) envisioned by use of this measure: Both patients and clinicians are impacted by the timeliness of laboratory reporting (Howanitz, 2001). Decreasing laboratory turnaround times increases ED efficiency, specifically by decreasing diversion time and decreasing length of stay (Storrow, 2008). Decreasing the numbers of hours a day on diversion as well as decreasing patients’ length of stay in the emergency department allows for the treatment of a greater number of patients. Studies have found correlations between the length of stay and mean turnaround times (Holland, 2008). The Clinical Laboratory Improvement Amendment establishes standards and enforcement of these policies promotes improvements in the timeliness of patient test results indicating this is an important parameter of measurement (Rivers, 2005). Efficiencies in throughput with tasks can lead to less diversion, less overcrowding, less elopements and less financial loss (Falvo, 2007).

1b.2 Summary of data demonstrating performance gap (variation or overall poor performance) across providers:

One study (Hawkins 2008) found that a 90% completion time of less than 60 minutes for common laboratory tests is accepted as an initial acceptance turnaround time (TAT) goal. That same study also showed that, in more than 50% of cases, TAT was thought to have been the cause of delayed ED treatment. The introduction of a Stat lab led to a decrease in TAT, which then resulted in a decreased patient length of stay in the emergency department (Singer, 2008).

1b.3 Citations for data on performance gap:


1b.4 Summary of Data on disparities by population group:

A study published in 2009 compared emergency departments within hospitals and between hospitals and

Rating: C=Completely; P=Partially; M=Minimally; N=Not at all; NA=Not applicable
found that black patients in the emergency department have a longer length of stay in the emergency department when compared with non-blacks (Pines, 2009). The study looked at over 400 hundred emergency departments in the United States and found that the average wait time for all patients is 349 minutes but that the average wait time for black patients was approximately one hour longer than non-black patients (the study adjusted for factors that might influence length of stay disparities).

1b.5 Citations for data on Disparities:

1c. Outcome or Evidence to Support Measure Focus

1c.4 Summary of Evidence (as described in the criteria; for outcomes, summarize any evidence that healthcare services/care processes influence the outcome):
Both patients and clinicians are affected by the timeliness of laboratory reporting (Howanitz, 2001). Decreasing laboratory turnaround times increases ED efficiency, specifically by decreasing diversion time and decreasing length of stay (Sorrow, 2008). Decreasing the number of hours a day on diversion as well as decreasing patients’ length of stay in the ED allows for the treatment of a greater number of patients. Studies have found correlations between the length of stay and mean turnaround times (Holland, 2008). The Clinical Laboratory Improvement Amendment establishes standards and enforcement of these policies promotes improvements in the timeliness of patient test results indicating this is an important parameter of measurement (Rivers, 2005). Efficiencies in throughput with tasks can lead to less diversion, less overcrowding, fewer elopements, and less financial loss (Falvo, 2007).

1c.5 Rating of strength/quality of evidence (also provide narrative description of the rating and by whom):
Level A (randomized controlled trial/meta-analysis): High quality randomized controlled trial that considers all important outcomes. High-quality meta-analysis (quantitative systematic review) using comprehensive search strategies.
Level B (other evidence):
A well-designed, nonrandomized clinical trial. A nonquantitative systematic review with appropriate search strategies and well-substantiated conclusions. Includes lower quality randomized controlled trials, clinical cohort studies, and case-controlled studies with nonbiased selection of study participants and consistent findings. Other evidence, such as high-quality, historical, uncontrolled studies, or well-designed epidemiologic studies with compelling findings, is also included.
Level C (consensus/expert opinion):
Consensus viewpoint or expert opinion. Expert opinion is sometimes the best evidence available.

1c.6 Method for rating evidence:
ABC Scale
• Level A (randomized controlled trial/meta-analysis):
High quality randomized controlled trial that considers all important outcomes. High-quality meta-analysis (quantitative systematic review) using comprehensive search strategies.
• Level B (other evidence):
A well-designed, nonrandomized clinical trial. A nonquantitative systematic review with appropriate search strategies and well-substantiated conclusions. Includes lower quality randomized controlled trials, clinical cohort studies, and case-controlled studies with nonbiased selection of study participants and consistent findings. Other evidence, such as high-quality, historical, uncontrolled studies, or well-designed epidemiologic studies with compelling findings, is also included.
• Level C (consensus/expert opinion):
Consensus viewpoint or expert opinion. Expert opinion is sometimes the best evidence available.

1c.7 Summary of Controversy/Contradictory Evidence: The risk in advancing measures that address timeliness is that there may be a decrease in testing performance to avoid measurement, however this is not likely due to the need to assess diagnostic results to ensure a proper diagnosis.

1c.8 Citations for Evidence (other than guidelines):
| 1c.9 Quote the Specific guideline recommendation (including guideline number and/or page number): | N/A |
| 1c.10 Clinical Practice Guideline Citation: | N/A |
| 1c.11 National Guideline Clearinghouse or other URL: | N/A |
| 1c.12 Rating of strength of recommendation (also provide narrative description of the rating and by whom): | N/A |
| 1c.13 Method for rating strength of recommendation (if different from USPSTF system, also describe rating and how it relates to USPSTF): | N/A |
| 1c.14 Rationale for using this guideline over others: | N/A |

TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Importance to Measure and Report?

Steering Committee: Was the threshold criterion, Importance to Measure and Report, met?

Rationale:

**2. SCIENTIFIC ACCEPTABILITY OF MEASURE PROPERTIES**

Extent to which the measure, as specified, produces consistent (reliable) and credible (valid) results about the quality of care when implemented. (evaluation criteria)

<table>
<thead>
<tr>
<th>Eval Rating</th>
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**2a. MEASURE SPECIFICATIONS**

S.1 Do you have a web page where current detailed measure specifications can be obtained?  
S.2 If yes, provide web page URL:

2a. Precisely Specified

<table>
<thead>
<tr>
<th>2a.1 Numerator Statement (Brief, text description of the numerator - what is being measured about the target population, e.g. target condition, event, or outcome):</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Department acute myocardial infarction (AMI) patients or chest pain patients (with Probable Cardiac Chest Pain) with an order for Troponin whose time from ED arrival to completion of Troponin results is within 60 minutes of arrival.</td>
<td></td>
</tr>
</tbody>
</table>

2a.2 Numerator Time Window (The time period in which cases are eligible for inclusion in the numerator):

Within 60 minutes of arrival

2a.3 Numerator Details (All information required to collect/calculate the numerator, including all codes, |  |

Comment [K7]: USPSTF grading system

http://www.ahrq.gov/clinic/uspstf/grades.htm

A - The USPSTF recommends the service. There is high certainty that the net benefit is substantial.

B - The USPSTF recommends the service. There is high certainty that the net benefit is moderate or there is moderate certainty that the net benefit is moderate to substantial.

C - The USPSTF recommends against routinely providing the service. There may be considerations that support providing the service in an individual patient. There is at least moderate certainty that the net benefit is small. Offer or provide this service only if other considerations support the offering or providing the service in an individual patient.

D - The USPSTF recommends against the service. There is moderate or high certainty that the service has no net benefit or that the harms outweigh the benefits.

I - The USPSTF concludes that the current evidence is insufficient to assess the balance of benefits and harms of the service. Evidence is lacking, of poor quality, or conflicting, and the balance of benefits and harms cannot be determined.

Comment [KP6]: 2a. The measure is well defined and precisely specified so that it can be implemented consistently within and across organizations and allow for comparability. The required data elements are of high quality as defined by NQF’s Health Information Technology Expert Panel (HITEP).
logic, and definitions):  

Included Populations: Not Applicable  

Excluded Populations: None  

Data Elements:  

• Arrival Time  
• Outpatient Encounter Date  
• Troponin Order  
• Troponin Results Date and Time  

2a.4 Denominator Statement (Brief, text description of the denominator - target population being measured):  

Emergency Department acute myocardial infarction (AMI) patients or chest pain patients (with Probable Cardiac Chest Pain) patients with an order for Troponin.  

2a.5 Target population gender: Female, Male  
2a.6 Target population age range: Age 18 and over  

2a.7 Denominator Time Window (The time period in which cases are eligible for inclusion in the denominator):  

N/A  

2a.8 Denominator Details (All information required to collect/calculate the denominator - the target population being measured - including all codes, logic, and definitions):  

• Patients with a patient age on Outpatient Encounter Date (Outpatient Encounter Date – Birthdate) >= 18 years, and  
• An ICD-9-CM Principal Diagnosis Code for AMI as defined in Appendix A, OP Table 1.1 or an ICD-9-CM Principal or Other Diagnosis Codes for Angina, Acute Coronary Syndrome, or Chest Pain as defined in Appendix A, OP Table 1.1a with Probable Cardiac Chest Pain, and  
• Patients who had a Troponin Order as defined in the Data Dictionary, and  
• An E/M Code for emergency department encounter as defined in Appendix A, OP Table 1.0, and  
• Patients discharged/transferred to a short term general hospital for inpatient care, or to a Federal healthcare facility  

Comment [k9]: 11 Risk factors that influence outcomes should not be specified as exclusions.  
12 Patient preference is not a clinical exception to eligibility and can be influenced by provider interventions.  

2a.9 Denominator Exclusions (Brief text description of exclusions from the target population):  

• Patients less than 18 years of age  
• Patients who expired in the emergency department  
• Patients who left the emergency department against medical advice or discontinued care  

2a.10 Denominator Exclusion Details (All information required to collect exclusions to the denominator, including all codes, logic, and definitions):  

• Arrival Time  
• Birthdate  
• Discharge Status  
• E/M Code  
• ICD-9-CM Other Diagnosis Code  
• ICD-9-CM Principal Diagnosis Code  
• Outpatient Encounter Date  
• Probable Cardiac Chest Pain  
• Troponin Order  
• Troponin Results Date and Time  

2a.11 Stratification Details/Variables (All information required to stratify the measure including the stratification variables, all codes, logic, and definitions):  

Plan is to stratify measure by ED annual volume and the presence of race/ethnicity, age and gender  

Rating: C=Completely; P=Partially; M=Minimally; N=Not at all; NA=Not applicable
demographics will allow for stratification of results.

### 2a.12-13 Risk Adjustment Type
No risk adjustment necessary

### 2a.14 Risk Adjustment Methodology/Variables
List risk adjustment variables and describe conceptual models, statistical models, or other aspects of model or method:

N/A

### 2a.15-17 Detailed risk model available
Web page URL or attachment:

### 2a.18-19 Type of Score
Rate/proportion

### 2a.20 Interpretation of Score
Better quality = higher score

### 2a.21 Calculation Algorithm
Describe the calculation of the measure as a flowchart or series of steps:

Per the guidance of Elisa Munthali: The algorithm can be found in the document uploaded for question 2a.29. Data Dictionary or Code Table; please refer to page 5 of the attached document.

### 2a.22 Describe the method for discriminating performance
(e.g., significance testing):

N/A

### 2a.23 Sampling (Survey) Methodology
If measure is based on a sample (or survey), provide instructions for obtaining the sample, conducting the survey and guidance on minimum sample size (response rate):

If a measure is based on a sample (or survey), provide instructions for obtaining the sample and conducting the survey, and lend guidance on minimum sample size (response rate).

A sampling similar to that used for the Outpatient Prospective Payment System can be used if medical record implementation is utilized. For hospitals submitting electronic health records, all cases submitted will be utilized.

Sampling
Sampling is a process of selecting a representative part of a population in order to estimate the hospital’s performance, without collecting data for the hospital’s entire population. Using a statistically valid sample, a hospital can measure its performance in an effective and efficient manner. Sampling is a particularly useful technique for performance measures that require primary data collection from a source such as the medical record. Sampling should not be used unless the hospital has a large number of cases in the outpatient population because a fairly large number of sample cases are needed to achieve a representative sample of the population. For the purpose of sampling outpatient department quality measures, the terms “sample,” “effective sample,” and “case” are defined below:

- The sample is the fraction of the population that is selected for further study.
- Effective sample refers to the part of the sample that makes it into the denominator of an outpatient measure set. This term is defined as the sample for an outpatient measure set minus all the exclusions and contraindications for the outpatient measure set in the sample.
- A case refers to a single record (or an encounter) within the population. For example, during the first quarter a hospital may have 100 patients who had a principal diagnosis associated with the OP-1, 2, 3, 4, and 5 measures. The hospital’s outpatient population would include 100 cases or 100 outpatient records for these measures during the first quarter.

To obtain statistically valid sample data, the sample size should be carefully determined and the sample cases should be randomly selected in such a way that the individual cases in the population have an equal chance of being selected. Only when the sample data truly represent the whole population can the sample-based performance outpatient measure set data be meaningful and useful. Each hospital is ultimately responsible for adhering to the sampling requirements outlined in this manual.

As a general rule/policy of CMS, providers are encouraged to submit as many cases as possible up to the entire population of cases if reasonably feasible. For example, if the raw data can be easily extracted from an existing electronic database or the abstraction burden is manageable, providers should consider submitting the entire population of cases that meet the initial selection criteria. Otherwise, a statistically valid sample can be selected.

Note: Hospitals are NOT required to sample their data if they elect to include all eligible cases. For example, a hospital has 100 cases for the quarter and must select a sample of 80 cases. The hospital may choose to use all 100 cases given the minimal benefit sampling would offer.
<table>
<thead>
<tr>
<th>Data Source</th>
<th>Data source/data collection instrument</th>
<th>Data source/data collection instrument reference web page URL or attachment</th>
<th>Data dictionary/code table web page URL or attachment</th>
<th>Testing/Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic administrative data/claims, paper medical record/flowsheet, electronic Health/Medical Record, Electronic clinical data, lab data</td>
<td>The CMS Abstraction &amp; Reporting Tool or Electronic Health Record</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>2a.24</td>
<td>2a.25</td>
<td>2a.26-28</td>
<td>2a.29-31</td>
<td>2a.30-35</td>
</tr>
</tbody>
</table>

**2b. Reliability testing**

| Data/sample (description of data/sample and size) | N/A |
| Analytic Method (type of reliability & rationale, method for testing) | N/A |
| Testing Results (reliability statistics, assessment of adequacy in the context of norms for the test conducted) | N/A |

**2c. Validity testing**

| Data/sample (description of data/sample and size) | N/A |
| Analytic Method (type of validity & rationale, method for testing) | N/A |
| Testing Results (statistical results, assessment of adequacy in the context of norms for the test conducted) | N/A |

**2d. Exclusions Justified**

| Summary of Evidence supporting exclusion(s) | N/A |
| Citations for Evidence | N/A |
| Data/sample (description of data/sample and size) | N/A |
| Analytic Method (type analysis & rationale) | N/A |

**Comment [KP10]:** 2b. Reliability testing demonstrates the measure results are repeatable, producing the same results a high proportion of the time assessed in the same population in the same time period.

**Comment [KP11]:** 8 Examples of reliability testing include, but are not limited to: inter-rater/abstractor or intra-rater/abstractor studies; internal consistency for multi-item scales; test-retest for survey items. Reliability testing may address the data items or final measure score.

**Comment [KP12]:** 3c. Validity testing demonstrates the measure reflects the quality of care provided, adequately distinguishing good and poor quality. If face validity is the only validity addressed, it is systematically assessed.

**Comment [KP13]:** 9 Examples of validity testing include, but are not limited to: determining if measure scores adequately distinguish between providers known to have good or poor quality assessed by another valid method; correlation of measure scores with another valid indicator of quality for the specific topic; ability of measure scores to predict scores on some other related valid measure; content validity for multi-item scales/tests. Face validity is a subjective assessment by expert of whether the measure reflects the quality of care (e.g., whether the proportion of patients with BP < 140/90 is a marker of quality). If face validity is the only validity addressed, it is systematically assessed (e.g., ratings by relevant stakeholders) and the measure is judged to represent quality care for the specific topic and that the measure focus is the most important aspect of quality for the specific topic.

**Comment [KP14]:** 2d. Clinically necessary measure exclusions are identified and must be: supported by evidence of sufficient frequency of occurrence so that results are distorted without the exclusion; AND clinically appropriate exception (e.g., contraindication) to eligibility for the measure focus; AND precisely defined and specified:—if there is substantial variability in exclusions across providers, the measure is specified so that exclusions are computable and the effect on the measure is transparent (i.e., impact clearly delineated, such as number of cases excluded, exclusion rates by type of exclusion); if patient preference (e.g., informed decision-making) is a basis for exclusion, there must be evidence that it strongly impacts performance on the measure and the measure must be specified so that the information about patient preference and the effect on the measure is transparent (e.g., numerator category … [2])

**Comment [KP15]:** 10 Examples of evidence that an exclusion distorts measure results include, but are not limited to: frequency of occurrence, sensitivity analyses with and without the exclusion, and variability of exclusions across providers.

Rating: C=Completely; P=Partially; M=Minimally; N=Not at all; NA=Not applicable
2e. Risk Adjustment for Outcomes/Resource Use Measures

2e.1 Data/sample (description of data/sample and size): N/A

2e.2 Analytic Method (type of risk adjustment, analysis, & rationale):

2e.3 Testing Results (risk model performance metrics):

N/A

2e.4 If outcome or resource use measure is not risk adjusted, provide rationale: N/A

2f. Identification of Meaningful Differences in Performance

2f.1 Data/sample from Testing or Current Use (description of data/sample and size): N/A

2f.2 Methods to identify statistically significant and practically/meaningfully differences in performance (type of analysis & rationale):

N/A

2f.3 Provide Measure Scores from Testing or Current Use (description of scores, e.g., distribution by quartile, mean, median, SD, etc.; identification of statistically significant and meaningfully differences in performance):

N/A

2g. Comparability of Multiple Data Sources/Methods

2g.1 Data/sample (description of data/sample and size): N/A

2g.2 Analytic Method (type of analysis & rationale):

N/A

2g.3 Testing Results (e.g., correlation statistics, comparison of rankings):

N/A

2h. Disparities in Care

2h.1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts): N/A

2h.2 If disparities have been reported/identified, but measure is not specified to detect disparities, provide follow-up plans:

N/A

TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Scientific Acceptability of Measure Properties?

Steering Committee: Overall, to what extent was the criterion, Scientific Acceptability of Measure Properties, met? Rationale:

3. Usability

Extent to which intended audiences (e.g., consumers, purchasers, providers, policy makers) can understand the results of the measure and are likely to find them useful for decision making. (evaluation criteria)

3a. Meaningful, Understandable, and Useful Information

Rating: C=Completely; P=Partially; M=Minimally; N=Not at all; NA=Not applicable
### 3a. Current Use

- **3a.1 Current Use:** testing not yet completed

- **3a.2 Use in public reporting initiative** (disclosure of performance results to the public at large) *(If used in a public reporting initiative, provide name of initiative(s), locations, Web page URL(s). If not publicly reported, state the plans to achieve public reporting within 3 years):*

- **Plan for Public Reporting via Hospital Compare**

- **Testing of Interpretability** *(Testing that demonstrates the results are understood by the potential users for public reporting and quality improvement)*

- **3a.3 If used in other programs/initiatives** *(If used in quality improvement or other programs/initiatives, name of initiative(s), locations, Web page URL(s). If not used for QI, state the plans to achieve use for QI within 3 years):*

  - **Plan for implementation in the Hospital Outpatient Department Quality Data Reporting Program**

- **3a.4 Data/sample** *(description of data/sample and size):* N/A

- **3a.5 Methods** *(e.g., focus group, survey, QI project):* N/A

- **3a.6 Results** *(qualitative and/or quantitative results and conclusions):* N/A

### 3b/3c. Relation to other NQF-endorsed measures

- **3b.1 NQF # and Title of similar or related measures:**

  287 Fibrinolytic Received Within 30 Minutes

  *(for NQF staff use)* **Notes on similar/related endorsed or submitted measures:**

- **3b. Harmonization**

  - If this measure is related to measure(s) already endorsed by NQF *(e.g., same topic, but different target population-setting/data source or different topic but same target population):*

  - **3b.2 Are the measure specifications harmonized? If not, why?**

    Where applicable, measures specifications are fully harmonized.

- **3c. Distinctive or Additive Value**

  - **3c.1 Describe the distinctive, improved, or additive value this measure provides to existing NQF-endorsed measures:**

- **5.1 Competing Measures**

  - If this measure is similar to measure(s) already endorsed by NQF *(i.e., on the same topic and the same target population), describe why it is a more valid or efficient way to measure quality:*

### TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Usability?

- **Rationale:**

### 4. FEASIBILITY

- **Extent to which the required data are readily available, retrievable without undue burden, and can be implemented for performance measurement.** *(evaluation criteria)*

  **4a. Data Generated as a Byproduct of Care Processes**

Rationale:

Rating: C=Completely; P=Partially; M=Minimally; N=Not at all; NA=Not applicable

---

**Comment [KP23]:** 3b. The measure specifications are harmonized with other measures, and are applicable to multiple levels and settings.

**Comment [k24]:** Measure harmonization refers to the standardization of specifications for similar measures on the same topic *(e.g., influenza immunization)* of patients in hospitals or nursing homes, or related measures for the same target population *(e.g., eye exam and HbA1c for patients with diabetes)*, or definitions applicable to many measures *(e.g., age designation for children)* so that they are uniform or compatible, unless differences are dictated by the evidence. The dimensions of harmonization can include numerator, denominator, exclusions, and data source and collection instructions. The extent of harmonization depends on the relationship of the measures, the evidence for the specific measure focus, and differences in data sources.

**Comment [KP25]:** 3c. Review of existing endorsed measures and measure sets demonstrates that the measure provides a distinctive or additive value to existing NQF-endorsed measures *(e.g., provides a more complete picture of quality for a particular condition or aspect of healthcare)*.

**Comment [k26]:** 5. Demonstration that the measure is superior to competing measures - new submissions and/or endorsed measures *(e.g., is a more valid or efficient way to measure)*.

**Comment [KP27]:** 4a. For clinical measures, required data elements are routinely generated concurrent with and as a byproduct of care processes during care delivery *(e.g., BP recorded in the electronic record, not abstracted from the record later by other personnel; patient self-assessment tools, e.g., depression scale; lab values, meds, etc.)*.
## 4a.1-2 How are the data elements that are needed to compute measure scores generated?

*Coding/abstraction performed by someone other than person obtaining original information, C=P=M=N NA*  

## 4b. Electronic Sources

### 4b.1 Are all the data elements available electronically? *(elements that are needed to compute measure scores are in defined, computer-readable fields, e.g., electronic health record, electronic claims)*

- **C**
- **P**
- **M**
- **N**

**Comment [KP28]:** The required data elements are available in electronic sources. If the required data are not in existing electronic sources, a credible, near-term path to electronic collection by most providers is specified and clinical data elements are specified for transition to the electronic health record.

### 4b.2 If not, specify the near-term path to achieve electronic capture by most providers.

- No, however work is progressing to make all elements available with the implementation of the Healthcare Information Technology Standards Panel recommendations.

**Comment [KP29]:** 4c. Exclusions should not require additional data sources beyond what is required for the numerator and denominator specifications (e.g., excluding data sources that are not necessary for scoring the measure).

## 4c. Exclusions

### 4c.1 Do the specified exclusions require additional data sources beyond what is required for the numerator and denominator specifications?

- No

**Comment [KP30]:** 4d. Susceptibility to inaccuracies, errors, or unintended consequences and the ability to audit the data items to detect such problems are identified.

### 4c.2 If yes, provide justification.

## 4d. Susceptibility to Inaccuracies, Errors, or Unintended Consequences

### 4d.1 Identify susceptibility to inaccuracies, errors, or unintended consequences of the measure and describe how these potential problems could be audited. If audited, provide results.

The risk in advancing measures that address timeliness is that there may be a decrease in testing performance to avoid measurement, however this is not likely due to the need to assess diagnostic results to ensure a proper diagnosis.

**Comment [KP31]:** 4e. Demonstration that the data collection strategy (e.g., source, timing, frequency, sampling, patient confidentiality, etc.) can be implemented (e.g., already in operational use, or testing demonstrates that it is ready to put into operational use).

## 4e. Data Collection Strategy/Implementation

### 4e.1 Describe what you have learned/modified as a result of testing and/or operational use of the measure regarding data collection, availability of data/missing data, timing/frequency of data collection, patient confidentiality, time/cost of data collection, other feasibility/implementation issues:

N/A

### 4e.2 Costs to implement the measure *(costs of data collection, fees associated with proprietary measures)*:

Cost/administrative burden has not been assessed, however it is expected facilities with dedicated EHRs will experience less burden in the collection of data.

### 4e.3 Evidence for costs:

N/A

### 4e.4 Business case documentation: N/A

**TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Feasibility?**

**Steering Committee: Overall, to what extent was the criterion, Feasibility, met?**

**Rationale:**

---

**RECOMMENDATION**

*Check if measure is untested and only eligible for time-limited endorsement.*

**Rating: C=Completely; P=Partially; M=Minimally; N=Not at all; NA=Not applicable**

11
<table>
<thead>
<tr>
<th>CONTACT INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Co.1 Measure Steward (Intellectual Property Owner)</strong></td>
</tr>
<tr>
<td><strong>Co.1 Organization</strong></td>
</tr>
<tr>
<td>Centers for Medicare &amp; Medicaid Services</td>
</tr>
<tr>
<td><strong>Co.2 Point of Contact</strong></td>
</tr>
<tr>
<td>Wanda</td>
</tr>
<tr>
<td><strong>Co.3 Organization</strong></td>
</tr>
<tr>
<td>Optimal Solutions Group, LLC</td>
</tr>
<tr>
<td><strong>Co.4 Point of Contact</strong></td>
</tr>
<tr>
<td>Kianna</td>
</tr>
<tr>
<td><strong>Co.5 Submitter if different from Measure Steward POC</strong></td>
</tr>
<tr>
<td>Kianna</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADDITIONAL INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Workgroup/Expert Panel involved in measure development</strong></td>
</tr>
<tr>
<td>Ad.1 Provide a list of sponsoring organizations and workgroup/panel members’ names and organizations.</td>
</tr>
<tr>
<td>Describe the members’ role in measure development.</td>
</tr>
<tr>
<td>The TEP assisted in selection of the measure for development as well as review of preliminary specifications. The TEP was disassembled and any modifications made to the specifications resulted from further development of like measures and recommendations from the NQF steering committee on prior measures.</td>
</tr>
<tr>
<td>Each member of the technical expert panel was asked to communicate via e-mail any potential conflicts of interest related to the list of proposed measures that were discussed. All members of the committee volunteered their time.</td>
</tr>
<tr>
<td>Dr. Jim Adams</td>
</tr>
<tr>
<td>Dr. Brent Asplin</td>
</tr>
<tr>
<td>Dr. James Augustine</td>
</tr>
<tr>
<td>Kristie Baus</td>
</tr>
<tr>
<td>Dr. Dale Bratzler</td>
</tr>
<tr>
<td>Katherine Brown</td>
</tr>
<tr>
<td>Dr. Stephen Cantrill</td>
</tr>
<tr>
<td>Joyce Dubow</td>
</tr>
<tr>
<td>Jennifer Eames</td>
</tr>
<tr>
<td>Jennifer Faerberg</td>
</tr>
<tr>
<td>Brent Fisher</td>
</tr>
<tr>
<td>Nancy Foster</td>
</tr>
<tr>
<td>Irene Fraser</td>
</tr>
<tr>
<td>Dr. Leon Haley Jr.</td>
</tr>
<tr>
<td>Dr. Howard Iseinstein</td>
</tr>
<tr>
<td>Rebecca Jones</td>
</tr>
<tr>
<td>Dr. Rahul Khare</td>
</tr>
<tr>
<td>Dr. Jon Krohmer</td>
</tr>
<tr>
<td>Dr. Jim Leo</td>
</tr>
<tr>
<td>Donna Mason</td>
</tr>
<tr>
<td>Ad.2 If adapted, provide name of original measure:</td>
</tr>
<tr>
<td>Ad.3-5 If adapted, provide original specifications URL or attachment</td>
</tr>
<tr>
<td>Measure Developer/Steward Updates and Ongoing Maintenance</td>
</tr>
<tr>
<td>Ad.6 Year the measure was first released:</td>
</tr>
<tr>
<td>Ad.7 Month and Year of most recent revision:</td>
</tr>
<tr>
<td>Ad.8 What is your frequency for review/update of this measure?</td>
</tr>
<tr>
<td>Ad.9 When is the next scheduled review/update for this measure?</td>
</tr>
<tr>
<td>Ad.10 Copyright statement/disclaimers:</td>
</tr>
<tr>
<td>Ad.11 -13 Additional Information web page URL or attachment:</td>
</tr>
<tr>
<td>Date of Submission (MM/DD/YY):</td>
</tr>
</tbody>
</table>
1c. The measure focus is:

- an outcome (e.g., morbidity, mortality, function, health-related quality of life) that is relevant to, or associated with, a national health goal/priority, the condition, population, and/or care being addressed;

OR

- if an intermediate outcome, process, structure, etc., there is evidence that supports the specific measure focus as follows:
  - Intermediate outcome - evidence that the measured intermediate outcome (e.g., blood pressure, Hba1c) leads to improved health/avoidance of harm or cost/benefit.
  - Process - evidence that the measured clinical or administrative process leads to improved health/avoidance of harm and if the measure focus is on one step in a multi-step care process, it measures the step that has the greatest effect on improving the specified desired outcome(s).
  - Structure - evidence that the measured structure supports the consistent delivery of effective processes or access that lead to improved health/avoidance of harm or cost/benefit.
  - Patient experience - evidence that an association exists between the measure of patient experience of health care and the outcomes, values and preferences of individuals/ the public.
  - Access - evidence that an association exists between access to a health service and the outcomes of, or experience with, care.
  - Efficiency - demonstration of an association between the measured resource use and level of performance with respect to one or more of the other five IOM aims of quality.

2d. Clinically necessary measure exclusions are identified and must be:

- supported by evidence of sufficient frequency of occurrence so that results are distorted without the exclusion; AND

- a clinically appropriate exception (e.g., contraindication) to eligibility for the measure focus; AND

- precisely defined and specified:
  - if there is substantial variability in exclusions across providers, the measure is specified so that exclusions are computable and the effect on the measure is transparent (i.e., impact clearly delineated, such as number of cases excluded, exclusion rates by type of exclusion);

if patient preference (e.g., informed decision-making) is a basis for exclusion, there must be evidence that it strongly impacts performance on the measure and the measure must be specified so that the information about patient preference and the effect on the measure is transparent (e.g., numerator category computed separately, denominator exclusion category computed separately).
Measure Information Form

**Measure Set:** Emergency Department

**Set Measure ID #:** ED

**Performance Measure Name:** Troponin Results for Emergency Department acute myocardial infarction (AMI) patients or chest pain patients (with *Probable Cardiac Chest Pain*) Received within 60 minutes of arrival.

**Description:** Emergency Department acute myocardial infarction (AMI) patients or chest pain patients (with *Probable Cardiac Chest Pain*) with an order for troponin during the stay and having a time from ED arrival to completion of Troponin results within 60 minutes of arrival.

**Rationale:**
Cardiac biomarkers are diagnostic tools to assist in the identification of myocardial necrosis (Braunwald, 2002) and essential for risk stratification of unstable angina and non-ST Elevation Myocardial Infarction and diagnosis of MI (Anderson 2007). Troponin is a cardiac biomarker used in the identification of patients experiencing acute coronary events who may be at risk for myocardial infarction or death (Gibler, 2005). Laboratory turnaround times for troponin should be under one hour (Gibler, 2005). Evaluation of timeliness of diagnostic tools used to identify patients experiencing cardiac damage has the potential to promote early intervention. This measure will identify the median time to troponin completion for chest pain or AMI patients and provide potential opportunities for improvement to decrease the times to troponin.

Both patients and clinicians are impacted by the timeliness of laboratory reporting (Howanitz, 2001). Decreasing laboratory turnaround times increases ED efficiency, specifically by decreasing diversion time and decreasing length of stay (Storrow, 2008). Decreasing the numbers of hours a day on diversion as well as decreasing patients’ length of stay in the emergency department allows for the treatment of a greater number of patients. Studies have found correlations between the length of stay and mean turnaround times (Holland, 2008). The Clinical Laboratory Improvement Amendment establishes standards and enforcement of these policies promotes improvements in the timeliness of patient test results indicating this is an important parameter of measurement (Rivers, 2005). Efficiencies in throughput with tasks can lead to less diversion, less overcrowding, less elopements and less financial loss (Falvo, 2007).

**Type of Measure:** Process

**Improvement Noted As:** An increase in the rate
**Numerator Statement:** Emergency Department acute myocardial infarction (AMI) patients or chest pain patients (with *Probable Cardiac Chest Pain*) with an order for Troponin whose time from ED arrival to completion of Troponin results is within 60 minutes of arrival.

**Included Populations:** Not Applicable

**Excluded Populations:** None

**Data Elements:**
- Arrival Date
- Arrival Time
- Outpatient Encounter Date
- Troponin Order
- Troponin Results Date and Time

**Denominator Statement:** Emergency Department acute myocardial infarction (AMI) patients or chest pain patients (with *Probable Cardiac Chest Pain*) patients with an order for Troponin.

**Included Populations:**
- Patients with a patient age on *Arrival Date* or *Outpatient Encounter Date* (Arrival Date or Outpatient Encounter Date – Birthdate) >= 18 years, and
- An *ICD-9-CM Principal Diagnosis Code* for AMI as defined in Appendix A, OP Table 1.1 or an *ICD-9-CM Principal or Other Diagnosis Codes* for Angina, Acute Coronary Syndrome, or Chest Pain as defined in Appendix A, OP Table 1.1a with *Probable Cardiac Chest Pain*, and
- Patients who had a *Troponin Order* as defined in the Data Dictionary, and
- An *E/M Code* for emergency department encounter as defined in Appendix A, OP Table 1.0

**Excluded Populations:**
- Patients less than 18 years of age
- Patients who expired in the emergency department
- Patients who left the emergency department against medical advice or discontinued care

**Data Elements:**
- Arrival Date
- Arrival Time
- Birthdate
- Discharge Status
- E/M Code
- ICD-9-CM Other Diagnosis Code
- **ICD-9-CM Principal Diagnosis Code**
- **Outpatient Encounter Date**
- **Probable Cardiac Chest Pain**
- **Troponin Order**
- **Troponin Results Date and Time**

**Risk Adjustment:** No

**Data Collection Approach:** Retrospective data sources for required data elements include administrative data and medical records. Some facilities may prefer to gather data concurrently by identifying patients in the population of interest. This approach provides opportunity for improvement at the point of care/service. However, complete documentation includes the ICD-9-CM diagnosis, which requires retrospective data entry.

**Data Accuracy:** N/A

**Measure Analysis Suggestions:** None

**Sampling:** Yes, for additional information see the Population and Sampling Specifications section.

**Data Reported As:** Aggregate rate generated from count data reported as a proportion.

**Suggested References:**


### Code Tables

**OP Table 1.0 E/M Codes for Emergency Department Encounter**

<table>
<thead>
<tr>
<th>Code</th>
<th>E/M Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>99281</td>
<td>Emergency department visit, new or established patient</td>
</tr>
<tr>
<td>99282</td>
<td>Emergency department visit, new or established patient</td>
</tr>
<tr>
<td>99283</td>
<td>Emergency department visit, new or established patient</td>
</tr>
<tr>
<td>99284</td>
<td>Emergency department visit, new or established patient</td>
</tr>
<tr>
<td>99285</td>
<td>Emergency department visit, new or established patient</td>
</tr>
<tr>
<td>99291</td>
<td>Critical care, evaluation and management</td>
</tr>
</tbody>
</table>

**OP Table 1.1: Acute Myocardial Infarction (AMI) Diagnosis Codes**

<table>
<thead>
<tr>
<th>Code</th>
<th>ICD-9-CM Description</th>
<th>Shortened Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>410.00</td>
<td>Anterolateral wall, acute myocardial infarction-episode of care unspecified</td>
<td>AMI ANTEROLATERAL, UNSPEC</td>
</tr>
<tr>
<td>410.01</td>
<td>Anterolateral wall, acute myocardial infarction-initial episode</td>
<td>AMI ANTEROLATERAL, INIT</td>
</tr>
<tr>
<td>410.10</td>
<td>Other anterior wall, acute myocardial infarction-episode of care unspecified</td>
<td>AMI ANTERIOR WALL, UNSPEC</td>
</tr>
<tr>
<td>410.11</td>
<td>Other anterior wall, acute myocardial infarction-initial episode</td>
<td>AMI ANTERIOR WALL, INIT</td>
</tr>
<tr>
<td>410.20</td>
<td>Inferolateral wall, acute myocardial infarction-episode of care unspecified</td>
<td>AMI INFEROLATERAL, UNSPEC</td>
</tr>
<tr>
<td>410.21</td>
<td>Inferolateral wall, acute myocardial infarction-initial episode</td>
<td>AMI INFEROLATERAL, INIT</td>
</tr>
<tr>
<td>410.30</td>
<td>Inferoposterior wall, acute myocardial infarction-episode of care unspecified</td>
<td>AMI INFEROPOST, UNSPEC</td>
</tr>
<tr>
<td>410.31</td>
<td>Inferoposterior wall, acute myocardial infarction-initial episode</td>
<td>AMI INFEROPOST, INITIAL</td>
</tr>
<tr>
<td>410.40</td>
<td>Other inferior wall, acute myocardial infarction-episode of care unspecified</td>
<td>AMI INFERIOR WALL, UNSPEC</td>
</tr>
<tr>
<td>410.41</td>
<td>Other inferior wall, acute myocardial infarction-initial episode</td>
<td>AMI INFERIOR WALL, INIT</td>
</tr>
<tr>
<td>410.50</td>
<td>Other lateral wall, acute myocardial infarction-episode of care unspecified</td>
<td>AMI LATERAL NEC, UNSPEC</td>
</tr>
<tr>
<td>410.51</td>
<td>Other lateral wall, acute myocardial infarction-initial episode</td>
<td>AMI LATERAL NEC, INITIAL</td>
</tr>
<tr>
<td>410.60</td>
<td>True posterior wall, acute myocardial infarction-episode of care unspecified</td>
<td>TRUE POST INFARCT, UNSPEC</td>
</tr>
<tr>
<td>410.61</td>
<td>True posterior wall, acute myocardial infarction-initial episode</td>
<td>TRUE POST INFARCT, INIT</td>
</tr>
<tr>
<td>410.70</td>
<td>Subendocardial, acute myocardial infarction-episode of care unspecified</td>
<td>SUBENDO INFARCT, UNSPEC</td>
</tr>
</tbody>
</table>
### OP Table 1.1: Acute Myocardial Infarction (AMI) Diagnosis Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>ICD-9-CM Description</th>
<th>Shortened Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>410.71</td>
<td>Subendocardial, acute myocardial infarction-initial episode</td>
<td>SUBENDO INFARCT, INITIAL</td>
</tr>
<tr>
<td>410.80</td>
<td>Other specified sites, acute myocardial infarction-episode of care unspecified</td>
<td>AMI NEC, UNSPECIFIED</td>
</tr>
<tr>
<td>410.81</td>
<td>Other specified sites, acute myocardial infarction-initial episode</td>
<td>AMI NEC, INITIAL</td>
</tr>
<tr>
<td>410.90</td>
<td>Unspecified site, acute myocardial infarction-episode of care unspecified</td>
<td>AMI NOS, UNSPECIFIED</td>
</tr>
<tr>
<td>410.91</td>
<td>Unspecified site, acute myocardial infarction-initial episode</td>
<td>AMI NOS, INITIAL</td>
</tr>
</tbody>
</table>

### OP Table 1.1a: Chest Pain, Angina, Acute Coronary Syndrome Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>ICD-9-CM Description</th>
<th>Shortened Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>411.1</td>
<td>Intermediate coronary syndrome</td>
<td>INTERMED CORONARY SYND</td>
</tr>
<tr>
<td>411.89</td>
<td>Acute ischemic heart disease other</td>
<td>AC ISCHEMIC HRT DIS NEC</td>
</tr>
<tr>
<td>413.0</td>
<td>Angina Decubitis</td>
<td>ANGINA DECUBITIS</td>
</tr>
<tr>
<td>413.1</td>
<td>Prinzmetal Angina</td>
<td>ANGINA DECUBITIS</td>
</tr>
<tr>
<td>413.9</td>
<td>Other and unspecified angina pectoris</td>
<td>ANGINA PECTORIS NEC/NOS</td>
</tr>
<tr>
<td>786.51</td>
<td>Precordial Chest Pain</td>
<td>PRECORDIAL PAIN</td>
</tr>
<tr>
<td>786.52</td>
<td>Painful Respiration</td>
<td>PAINFUL RESPIRATION</td>
</tr>
<tr>
<td>786.59</td>
<td>Chest pain, other</td>
<td>CHEST PAIN NEC</td>
</tr>
</tbody>
</table>
Data Element Name: Arrival Time

Collected For: All Records

Definition: The earliest documented time (military time) the patient arrived at the outpatient or emergency department.

Suggested Data Collection Question: What was the earliest documented time the patient arrived at the outpatient or emergency department?

Format:

Length: 5 - HH:MM (with or without colon) or UTD
Type: Time
Occurs: 1

Allowable Values: Enter the earliest documented time of arrival
HH = Hour (00-23)
MM = Minutes (00-59)

UTD = Unable to Determine

Time must be recorded in military time format. With the exception of Midnight and Noon:
- If the time is in the a.m., conversion is not required.
- If the time is in the p.m., add 12 to the clock time hour.

Examples:
Midnight - 00:00 Noon - 12:00
5:31 am - 05:31 5:31 pm - 17:31
11:59 am - 11:59 11:59 pm - 23:59

Note:
00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Outpatient Encounter Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.

When converting Midnight or 24:00 to 00:00 do not forget to change the Outpatient Encounter Date.
Example: Midnight or 24:00 on 11-24-20XX= 00:00 on
For times that include “seconds,” remove the seconds and record the military time.
   Example: 15:00:35 would be recorded as 15:00

Note:
Transmission of a case with an invalid time will be rejected from the OPPS Clinical Warehouse. Use of “UTD” for Arrival Time allows the case to be accepted into the warehouse, but should only be used when all efforts to locate or determine an Arrival Time have been exhausted.

Notes for Abstraction:

- If the time of the outpatient or emergency department arrival is unable to be determined from medical record documentation, enter UTD.
- The medical record must be abstracted as documented (taken at “face value”). When the time documented is obviously in error (not a valid time) and no other documentation is found that provides this information, the abstractor should select “UTD.”
  Example:
  o Documentation indicates that the arrival time was 3300. No other documentation in the medical record provides a valid time. Since the arrival time is outside of the range listed in the Allowable Values for “Hour,” it is not a valid time and the abstractor should select “UTD.”
- When reviewing records for arrival time do NOT include any documentation from external sources (e.g., ambulance records, physician/advanced practice nurse/physician assistant [physician/APN/PA] office record, laboratory reports, or ECGs) obtained prior to arrival. The intent is to utilize any documentation which reflects processes that occurred after arrival.

NOTE: Medical record documentation should be carefully examined in determining the most correct time of the outpatient or emergency department arrival. The arrival time should NOT be abstracted simply as the earliest time in the acceptable sources, without regard to other (i.e., ancillary services) substantiating documentation. If documentation suggests that the earliest time in the acceptable sources does not reflect the time the patient arrived at the outpatient or emergency department, this time should not be used.
Suggested Data Sources:
- Emergency Department record
- Outpatient record

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name: Birthdate

Collected For: All Records

Definition: The month, day, and year the patient was born.

NOTE: Patient Age on Outpatient Encounter Date (in years) is calculated by Outpatient Encounter Date minus Birthdate. The algorithm to calculate age must use the month and day portion of encounter date and birthdate to yield the most accurate age.

Suggested Data Collection Question: What is the patient's date of birth?

Format: Length: 10 – MM-DD-YYYY (includes dashes)
Type: Date
Occurs: 1

Allowable Values: MM = Month (01-12)
DD = Day (01-31)
YYYY = Year (1880-Current Year)

Notes for Abstraction: Because this data element is critical in determining the population for all measures, the abstractor should NOT assume that the claim information for the birthdate is correct. If the abstractor determines through chart review that the date is incorrect, correct and override the downloaded value. If the abstractor is unable to determine the correct birthdate through chart review, default to the date of birth on the claim information.

Suggested Data Sources: • Outpatient record
• Emergency Department record

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Data Element Name:</td>
<td>Discharge Status</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Collected For:</td>
<td>OP-ED</td>
</tr>
<tr>
<td>Definition:</td>
<td>The place or setting to which the patient was discharged from the emergency department.</td>
</tr>
<tr>
<td>Suggested Data Collection Question:</td>
<td>What was the patient’s discharge disposition from the emergency department?</td>
</tr>
<tr>
<td>Format:</td>
<td>Length: 2 Type: Alphanumeric Occurs: 1</td>
</tr>
</tbody>
</table>
| Allowable Values: | 01 Discharged to home care or self care (routine discharge)  
**Usage Note:** Includes discharge to home; home on oxygen if DME only; any other DME only; group home, foster care, independent living and other residential care arrangements; outpatient programs, such as partial hospitalization or outpatient chemical dependency programs. |
|                   | 02 Discharged/transferred to a short term general hospital for inpatient care (Acute Care Facility) |
|                   | 03 Discharged/transferred to skilled nursing facility (SNF) with Medicare certification in anticipation of covered skilled care  
**Usage Note:** Medicare indicates that the patient is discharged/transferred to a Medicare certified nursing facility. For hospitals with an approved swing bed arrangement, use Code 61-Swing Bed. For reporting other discharges/transfers to nursing facilities, see 04 and 64. |
|                   | 04 Discharged/transferred to a facility that provides custodial or supportive care  
**Usage Note:** Includes intermediate care facilities (ICFs) if specifically designated at the state level. Also used to designate patients that are discharged/transferred to a nursing facility with neither Medicare nor Medicaid certification and for discharges/transfers to Assisted... |
Living Facilities.

05 **Discharged/transferred to a designate cancer center or children’s hospital**

*Usage Note:* Transfers to non-designated cancer hospitals should use Code 02. A list of (National Cancer Institute) Designated Cancer Centers can be found at http://www3.cancer.gov/cancercenters/centerslist.html

06 **Discharged/transferred to home under care of organized home health service organization in anticipation of covered skilled care**

*Usage Note:* Report this code when the patient is discharged/transferred to home with a **written plan of care** (tailored to the patient’s medical needs) for home care services.

07 **Left against medical advice or discontinued care**

09 **Admitted as an inpatient to this hospital**

*Usage Note:* For use only on Medicare outpatient claims. Applies only to those Medicare outpatient services that begin greater than three days prior to an admission.

20 **Expired**

21 **Discharged/transferred to court/law enforcement**

*Usage Note:* Includes transfers to incarceration facilities such as jail, prison, or other detention facilities.

41 **Expired in a medical facility (e.g., hospital, SNF, ICF or freestanding hospice)**

*Usage Note:* For use only on Medicare and TRICARE claims for hospice care.

43 **Discharged/transferred to a Federal health care facility**
Usage Note: Discharges and transfers to a government operated health care facility such as a Department of Defense hospital, a Veteran’s Administration hospital or a Veteran’s Administration nursing facility. To be used whenever the destination at discharge is a federal health care facility, whether the patient resides there or not.

50 Hospice - home

51 Hospice - medical facility (certified) providing hospice level of care

61 Discharged/transferred to hospital-based Medicare approved swing bed
   Usage Note: Medicare-used for reporting patients discharged/transferred to a SNF level of care within the hospital's approved swing bed arrangement.

62 Discharged/transferred to an inpatient rehabilitation facility (IRF) including rehabilitation distinct part units of a hospital

63 Discharged/transferred to a Medicare certified long term care hospital (LTCH)
   Usage Note: For hospitals that meet the Medicare criteria for LTCH certification.

64 Discharged/transferred to a nursing facility certified under Medicaid but not certified under Medicare

65 Discharged/transferred to a psychiatric hospital or psychiatric distinct part of a hospital

66 Discharged/transferred to a Critical Access Hospital (CAH)

70 Discharged/transferred to another type of Health Care Institution not Defined Elsewhere in this Code List (see code 05)

Note: CMS is aware that there are additional UB-04 allowable values for this data element; however, they are not used for
the hospital outpatient measures at this time.

Notes for Abstraction:

- The values for Discharge Status are taken from the National Uniform Billing Committee (NUBC) manual which is used by the billing/HIM to complete the UB-04.
- Because this data element is critical in determining the population for these measures, the abstractor should NOT assume that the UB-04 value is what is reflected in the medical record. For abstraction purposes, it is important that the medical record reflect the appropriate discharge status. If the abstractor determines through chart review that the claim information discharge status is not what is reflected in the medical record, correct and override the downloaded value.

Suggested Data Sources:

- Emergency Department record
- UB-04

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name:  

E/M Code

Collected For:  

OP-ED

Definition:  

The code used to report evaluation and management services provided in the hospital outpatient department clinic or emergency department.

Suggested Data Collection Question:  

What was the E/M Code documented for this outpatient encounter?

Format:  

Length:  5  
Type:  Alphanumeric  
Occurs:  1

Allowable Values:  

Select the E/M code from Appendix A, OP Table 1.0.

Suggested Data Sources:  

- Outpatient record

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to Appendix A, OP Table 1.0, E/M Codes.</td>
<td>None</td>
</tr>
</tbody>
</table>
**Data Element Name:** ICD-9-CM Other Diagnosis Code

**Collected For:** OP-ED

**Definition:** The International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) codes associated with the diagnosis for this record.

**Suggested Data Collection Question:** What were the ICD-9-CM other diagnoses codes selected for this medical record?

**Format:**
- **Length:** 6 (with or without decimal)
- **Type:** Alphanumeric
- **Occurs:** 17

**Allowable Values:** Any valid ICD-9-CM diagnosis code

**Notes for Abstraction:** None

**Suggested Data Sources:**
- Outpatient record
- Emergency Department record
- UB-04, Field Locations: 67A-Q

**NOTE:** Medicare will only accept codes listed in fields A-H

**Inclusion Guidelines for Abstraction:** None

**Exclusion Guidelines for Abstraction:** None
Data Element Name: **ICD-9-CM Principal Diagnosis Code**

Collected For: OP-ED

Definition: The International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) code associated with the diagnosis established after study to be chiefly responsible for the outpatient encounter.

Suggested Data Collection Question: What was the ICD-9-CM code selected as the principal diagnosis for this record?

Format: Length: 6 (with or without a decimal point)  
Type: Alphanumeric  
Occurs: 1

Allowable Values: Any valid ICD-9-CM diagnosis code

Notes for Abstraction: The principal diagnosis is defined in the Uniform Hospital Discharge Data Set (UHDDS) as “that condition established after study to be chiefly responsible for occasioning the admission of the patient to the hospital for care.”

Suggested Data Sources:  
• Outpatient record  
• Emergency Department record  
• UB-04, Field Location: 67

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to Appendix A, ICD-9-CM Code tables</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name:  *Outpatient Encounter Date*

Collected For:  All Records

Definition:  The documented month, day and year the patient arrived in the hospital outpatient setting.

Suggested Data Collection Question:  What was date the patient arrived in the hospital outpatient setting?

Format:  
- **Length:** 10 – MM-DD-YYYY (includes dashes)
- **Type:** Date
- **Occurs:** 1

Allowable Values:  
- MM = Month (01-12)
- DD = Day (01-31)
- YYYY = Year (2008-Current Year)

Notes for Abstraction:  
- The intent of this data element is to determine the date the patient arrived in the hospital outpatient setting.
- UTD is NOT an allowable value.
- Consider the outpatient encounter date as the earliest documented date the patient arrived in the applicable hospital outpatient setting.

Suggested Data Sources:  
- Outpatient record
- Emergency Department record

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
DATA ELEMENT NAME: Troponin Order

COLLECTED FOR: ED

DEFINITION: Documentation in the medical record a Troponin was ordered during emergency department visit.

SUGGESTED DATA COLLECTION QUESTION: Was a Troponin ordered by the physician/APN/PA during the emergency department visit?

FORMAT: Length: 1
Type: Alphanumeric
Occurs: 1

ALLOWABLE VALUES: Y (Yes) There is documentation the physician/APN/PA ordered a Troponin during the emergency department visit.

N (No) There is no documentation the physician/APN/PA ordered a Troponin during the emergency department visit or unable to determine (UTD).

NOTES FOR ABSTRACTION: If there is documentation a Troponin was ordered and then the test was cancelled by the physician/APN/PA, select NO.

DATA SOURCES: Nurses Notes
Physician Notes/Orders
Radiology Notes

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name:  *Troponin Results Date and Time*

Collected For:  ED

Definition:  The month, day, year and the exact time (military time) represented in hours and minutes at which the earliest Troponin results were completed.

Suggested Data Collection Question:  What is the date and time of the earliest Troponin results?

Format:  

**Length:**  16 → MM-DD-YYYY (includes dashes) and HH:MM (with or without colon) or UTD

**Type:**  Date/Time

**Occurs:**  1

Allowable Values:  

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MM</td>
<td>=</td>
<td>Month (01-12)</td>
</tr>
<tr>
<td>DD</td>
<td>=</td>
<td>Day (01-31)</td>
</tr>
<tr>
<td>YYYY</td>
<td>=</td>
<td>Year (2000-Current Year)</td>
</tr>
<tr>
<td>HH</td>
<td>=</td>
<td>Hour (00-23)</td>
</tr>
<tr>
<td>MM</td>
<td>=</td>
<td>Minutes (00-59)</td>
</tr>
<tr>
<td>UTD</td>
<td>=</td>
<td>Unable to Determine</td>
</tr>
</tbody>
</table>

Time must be recorded in military time format. With the exception of Midnight and Noon:

- If the time is in the a.m., conversion is not required.
- If the time is in the p.m., add 12 to the clock time hour.

Examples:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Midnight - 00:00</td>
<td>Noon - 12:00</td>
<td></td>
</tr>
<tr>
<td>5:31 am - 05:31</td>
<td>5:31 pm - 17:31</td>
<td></td>
</tr>
<tr>
<td>11:59 am - 11:59</td>
<td>11:59 pm - 23:59</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**

00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Troponin Results Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.

When converting Midnight or 24:00 to 00:00 do not forget to
change the Troponin Results Date.
Example: Midnight or 24:00 on 11-24-20XX = 00:00 on 11-25-20XX

**Note:**
Transmission of a case with an invalid date will be rejected from the OPPS Clinical Warehouse. Use of "UTD" for *Troponin Results Date and Time* allows the case to be accepted into the warehouse.

**Notes for Abstraction:**
For times that include “seconds”, remove the seconds and record the military time
Example:
15:00:35 would be recorded as 15:00

If the date and/or time of the Troponin completion is unable to be determined from medical record documentation, abstract UTD.

Abstract the completion time of the earliest Troponin ordered (closest to arrival).

If there are multiple completion times documented for the same Troponin, use the earliest completion time.

**Suggested Data Sources:**
- Emergency Department record

**Guidelines for Abstraction:**

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
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</tbody>
</table>
National Quality Forum Steering Committee for the National Voluntary Consensus Standards for Ambulatory Care – Outpatient Measures 2010

Measure Revisions

Prepared for:
National Quality Forum
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Point-of-Contact:
Kianna Banks, Optimal Solutions Group
Phone: 301.918.7307 Fax: 301.306.1197
Email: kbanks@optimalsolutionsgroup.com

May 17, 2010
<table>
<thead>
<tr>
<th>NQF Measure ID: ACP-019-10</th>
<th>Measure Title: Median time to troponin results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measure revisions:</strong></td>
<td></td>
</tr>
<tr>
<td>• Title of measure changed to “Troponin Results for Emergency Department acute myocardial infarction (AMI) patients or chest pain patients (with Probable Cardiac Chest Pain) Received within 60 minutes of arrival;”</td>
<td></td>
</tr>
<tr>
<td>• Results for Non-Traumatic Chest Pain Received within 60 minutes of arrival;</td>
<td></td>
</tr>
<tr>
<td>• Denominator was revised to only include those patients with non-traumatic chest pain and AMI; and</td>
<td></td>
</tr>
<tr>
<td>• The time frame was revised to capture time of arrival to time the test is complete.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NQF Measure ID: ACP-021-10</th>
<th>Measure Title: Median time from head CT scan order to head CT scan interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measure revisions:</strong></td>
<td></td>
</tr>
<tr>
<td>• Title of measure changed to “Head CT Scan Results for Acute Ischemic Stroke or Hemorrhagic stroke who Received Head CT Scan Interpretation within 45 minutes of Arrival;”</td>
<td></td>
</tr>
<tr>
<td>• Optimal revised the measure to capture Acute Ischemic Stroke and Hemorrhagic Stroke patients who arrive at the ED within 2 hours of the onset of symptoms who have a head CT scan performed during the stay and having a time from ED arrival to interpretation of the Head CT scan within 45 minutes of arrival.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NQF Measure ID: ACP-023-10</th>
<th>Measure Title: Time to pain management for long bone fracture</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measure revisions:</strong></td>
<td></td>
</tr>
<tr>
<td>• Measure now includes ages &gt;= age 2;</td>
<td></td>
</tr>
<tr>
<td>• Measure specifications were revised to include parenteral pain medications for patients with shaft fractures of the tibia, femur, and humerus with a median time with a range.</td>
<td></td>
</tr>
</tbody>
</table>
Data Element Name: Troponin Results Date and Time

Collected For: ED

Definition: The month, day, year and the exact time (military time) represented in hours and minutes at which the earliest Troponin results were reported.

Suggested Data Collection Question: What is the date and time of the earliest Troponin results?

Format: Length: 16 – MM-DD-YYYY (includes dashes) and HH:MM (with or without colon) or UTD

Type: Date/Time

Occurs: 1

Allowable Values:

- MM = Month (01-12)
- DD = Day (01-31)
- YYYY = Year (2000-Current Year)
- HH = Hour (00-23)
- MM = Minutes (00-59)
- UTD = Unable to Determine

Time must be recorded in military time format. With the exception of Midnight and Noon:

- If the time is in the a.m., conversion is not required.
- If the time is in the p.m., add 12 to the clock time hour.

Examples:

- Midnight - 00:00
- Noon - 12:00
- 5:31 am - 05:31
- 5:31 pm - 17:31
- 11:59 am - 11:59
- 11:59 pm - 23:59

Note:

- 00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Discharge Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.

When converting Midnight or 24:00 to 00:00 do not forget to
change the Discharge Date.  
Example:  Midnight or 24:00 on 11-24-20XX = 00:00 on 11-25-20XX  

**Note:**  
Transmission of a case with an invalid date will be rejected from the OPPS Clinical Warehouse. Use of “UTD” for *Troponin Results Date and Time* allows the case to be accepted into the warehouse.  

**Notes for Abstraction:**  
For times that include “seconds”, remove the seconds and record the military time  
Example:  
15:00:35 would be recorded as 15:00  

If the date and/or time of the Troponin result is unable to be determined from medical record documentation, abstract UTD.  

Abstract the result of the earliest Troponin ordered (closest to arrival).  

If there are multiple result times documented for the same Troponin, use the earliest result time.  

**Suggested Data Sources:**  
- Emergency Department record  

**Guidelines for Abstraction:**  

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Measure Information Form

Measure Set: Emergency Department

Set Measure ID #: OP-ED-6

Performance Measure Name: Median Time to Troponin Results

Description: Median time from initial troponin order to time troponin results are reported to emergency department staff.

Rationale:
Both patients and clinicians are impacted by the timeliness of laboratory reporting (Howanitz, 2001). Decreasing laboratory turnaround times increases ED efficiency, specifically by decreasing diversion time and decreasing length of stay (Storrow, 2008). Decreasing the numbers of hours a day on diversion as well as decreasing patients’ length of stay in the emergency department allows for the treatment of a greater number of patients. Studies have found correlations between the length of stay and mean turnaround times (Holland, 2008). The Clinical Laboratory Improvement Amendment establishes standards and enforcement of these policies promotes improvements in the timeliness of patient test results indicating this is an important parameter of measurement (Rivers, 2005). Efficiencies in throughput with tasks can lead to less diversion, less overcrowding, less elopements and less financial loss (Falvo, 2007).

Type of Measure: Process

Improvement Noted As: A decrease in the median value

Continuous Variable Statement: Time (in minutes) from initial troponin order to time troponin results are reported to emergency department staff.

Included Populations:
- Patients with a patient age on Outpatient Encounter Date (Outpatient Encounter Date – Birthdate) >= 18 years, and
- Patients who had a Troponin Order as defined in the Data Dictionary, and
- An E/M Code for emergency department encounter as defined in Appendix A, OP Table 1.0

Excluded Populations:
- Patients less than 18 years of age
- Patients who expired in the emergency department
- Patients who left the emergency department against medical advice or discontinued care
Data Elements:

- Birthdate
- Discharge Status
- E/M Code
- Outpatient Encounter Date
- Troponin Order
- Troponin Order Date and Time
- Troponin Results Date and Time

Risk Adjustment: No

Data Collection Approach: Retrospective data sources for required data elements include administrative data and medical records. Some facilities may prefer to gather data concurrently by identifying patients in the population of interest. This approach provides opportunity for improvement at the point of care/service. However, complete documentation includes the ICD-9-CM diagnosis, which requires retrospective data entry.

Data Accuracy:

Measure Analysis Suggestions: None

Sampling: Yes, for additional information see the Population and Sampling Specifications section.

Data Reported As: Aggregate measure of central tendency

Suggested References:

**OP-ED-6: Median Time to Troponin Results**

**Continuous Variable Statement:** Time (in minutes) from initial troponin order to time troponin results are reported to emergency department staff.

---

**START**

- **Discharge Status**
  - 07 or 20 -> **OP-ED-6 B**
  - 01, 02, 03, 04, 05, 06, 09, 41, 43, 50, 51, 61, 62, 63, 64, 65, 66, or 70

- **Troponin Order**
  - Missing
  - = Y -> **OP-ED-6 B**
  - = N -> **OP-ED-6 B**

- **Troponin Order Date and Time**
  - Missing
  - = UTD
  - Non-UTD Value

- **Troponin Results Date and Time**
  - Missing
  - = UTD
  - Non-UTD Value

**Measurement Value** = Troponin Results Date and Time minus Troponin Order Date and Time (in minutes)

- Measurement Value < 0 minutes -> **Not In Measure Population**
- Measurement Value >= 0 minutes -> **In Measure Population**

**Case Will Be Rejected**

**STOP**
Data Elements

Data Element Name: Arrival Time

Collected For: All Records (used in algorithm for OP-1, OP-2, OP-3, OP-5)

Definition: The earliest documented time (military time) the patient arrived at the outpatient or emergency department.

Suggested Data Collection Question: What was the earliest documented time the patient arrived at the outpatient or emergency department?

Format: Length: 5 - HH:MM (with or without colon) or UTD
Type: Time
Occurs: 1

Allowable Values:
Enter the earliest documented time of arrival
HH = Hour (00-23)
MM = Minutes (00-59)
UTD = Unable to Determine

Time must be recorded in military time format. With the exception of Midnight and Noon:
- If the time is in the a.m., conversion is not required.
- If the time is in the p.m., add 12 to the clock time hour.

Examples:
Midnight - 00:00  Noon - 12:00
5:31 am - 05:31  5:31 pm - 17:31
11:59 am - 11:59  11:59 pm - 23:59

Note:
00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Outpatient Encounter Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.

When converting Midnight or 24:00 to 00:00 do not forget to change the Outpatient Encounter Date.
   Example: Midnight or 24:00 on 11-24-20XX= 00:00 on
11-25-20XX

For times that include “seconds,” remove the seconds and record the military time.
Example: 15:00:35 would be recorded as 15:00
Note:
Transmission of a case with an invalid time will be rejected from the OPPS Clinical Warehouse. Use of “UTD” for Arrival Time allows the case to be accepted into the warehouse, but should only be used when all efforts to locate or determine an Arrival Time have been exhausted.

Notes for Abstraction:

- If the time of the outpatient or emergency department arrival is unable to be determined from medical record documentation, enter UTD.
- The medical record must be abstracted as documented (taken at “face value”). When the time documented is obviously in error (not a valid time) and no other documentation is found that provides this information, the abstractor should select “UTD.”
  Example:
  1. Documentation indicates that the arrival time was 3300. No other documentation in the medical record provides a valid time. Since the arrival time is outside of the range listed in the Allowable Values for “Hour,” it is not a valid time and the abstractor should select “UTD.”
- When reviewing records for arrival time do NOT include any documentation from external sources (e.g., ambulance records, physician/advanced practice nurse/physician assistant [physician/APN/PA] office record, laboratory reports, or ECGs) obtained prior to arrival. The intent is to utilize any documentation which reflects processes that occurred after arrival.

NOTE: Medical record documentation should be carefully examined in determining the most correct time of the outpatient or emergency department arrival. The arrival time should NOT be abstracted simply as the earliest time in the acceptable sources, without regard to other (i.e., ancillary services) substantiating documentation. If documentation suggests that the earliest time in the acceptable sources does not reflect the time the patient arrived at the outpatient or emergency department, this time should not be used.

Suggested Data Sources:

- Emergency Department record
- Outpatient record
## Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name: Birthdate

Collected For: All Records

Definition: The month, day, and year the patient was born.

NOTE: Patient Age on Outpatient Encounter Date (in years) is calculated by Outpatient Encounter Date minus Birthdate. The algorithm to calculate age must use the month and day portion of encounter date and birthdate to yield the most accurate age.

Suggested Data Collection Question: What is the patient’s date of birth?

Format: Length: 10 – MM-DD-YYYY (includes dashes)
Type: Date
Occurs: 1

Allowable Values: MM = Month (01-12)
DD = Day (01-31)
YYYY = Year (1880-Current Year)

Notes for Abstraction: Because this data element is critical in determining the population for all measures, the abstractor should NOT assume that the claim information for the birthdate is correct. If the abstractor determines through chart review that the date is incorrect, correct and override the downloaded value. If the abstractor is unable to determine the correct birthdate through chart review, default to the date of birth on the claim information.

Suggested Data Sources:
• Outpatient record
• Emergency Department record

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
DATA ELEMENT NAME: BMP Order

COLLECTED FOR: ED

DEFINITION: Documentation in the medical record a Basic Metabolic Panel (BMP) or Electrolyte panel was ordered during emergency department visit.

SUGGESTED DATA COLLECTION QUESTION: Was a BMP or electrolyte panel ordered by the physician/APN/PA during the emergency department visit?

FORMAT: Length: 1
Type: Alphanumeric
Occurs: 1

ALLOWABLE VALUES: Y (Yes) There is documentation the physician/APN/PA ordered a BMP or electrolyte panel during the emergency department visit.

N (No) There is no documentation the physician/APN/PA ordered a BMP or electrolyte panel during the emergency department visit or unable to determine (UTD).

NOTES FOR ABSTRACTION: If there is documentation a BMP or electrolyte panel was ordered and then the test was cancelled by the physician/APN/PA, select NO.

DATA SOURCES: Nurses Notes
Physician Notes/Orders
Radiology Notes

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name:  
*BMP Order Date and Time*

Collected For:  
ED

Definition:  
The month, day, year and the exact time (military time) represented in hours and minutes at which the earliest BMP or electrolyte panel was ordered.

Suggested Data Collection Question:  
What is the date and time of the earliest BMP or electrolyte panel order?

Format:  

<table>
<thead>
<tr>
<th>Length</th>
<th>MM-DD-YYYY (includes dashes) and HH:MM (with or without colon) or UTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Date/Time</td>
</tr>
<tr>
<td>Occurs</td>
<td>1</td>
</tr>
</tbody>
</table>

Allowable Values:  

<table>
<thead>
<tr>
<th>MM</th>
<th>= Month (01-12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD</td>
<td>= Day (01-31)</td>
</tr>
<tr>
<td>YYYY</td>
<td>= Year (2000-Current Year)</td>
</tr>
<tr>
<td>HH</td>
<td>= Hour (00-23)</td>
</tr>
<tr>
<td>MM</td>
<td>= Minutes (00-59)</td>
</tr>
<tr>
<td>UTD</td>
<td>= Unable to Determine</td>
</tr>
</tbody>
</table>

Time must be recorded in military time format. With the exception of Midnight and Noon:

- If the time is in the a.m., conversion is not required.
- If the time is in the p.m., add 12 to the clock time hour.

Examples:
- Midnight - 00:00  
- Noon - 12:00  
- 5:31 am - 05:31  
- 5:31 pm - 17:31  
- 11:59 am - 11:59  
- 11:59 pm - 23:59

Note:  
00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Discharge Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.

When converting Midnight or 24:00 to 00:00 do not forget to...
change the Discharge Date.
Example: Midnight or 24:00 on 11-24-20XX = 00:00 on 11-25-20XX

Note:
Transmission of a case with an invalid date will be rejected from the OPPS Clinical Warehouse. Use of “UTD” for BMP Order Date and Time allows the case to be accepted into the warehouse.

Notes for Abstraction:
For times that include “seconds”, remove the seconds and record the military time
Example:
15:00:35 would be recorded as 15:00

If the date and/or time of the BMP or electrolyte panel order is unable to be determined from medical record documentation, abstract UTD.

Abstract the order of the earliest BMP or electrolyte panel ordered (closest to arrival).

If there are multiple order times documented for the same BMP or electrolyte panel order, use the earliest order time.

Suggested Data Sources:
• Emergency Department record

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name: \textit{BMP Results Date and Time} \\

Collected For: ED \\

Definition: The month, day, year and the exact time (military time) represented in hours and minutes at which the earliest BMP or electrolyte panel results were reported.

Suggested Data Collection Question: What is the date and time of the earliest BMP or electrolyte panel results?

Format: \\
Length: 16 \text{ – MM-DD-YYYY (includes dashes) and HH:MM (with or without colon) or UTD} \\
Type: Date/Time \\
Occurs: 1 \\

Allowable Values: MM = Month (01-12) \\
DD = Day (01-31) \\
YYYY = Year (2000-Current Year) \\
HH = Hour (00-23) \\
MM = Minutes (00-59) \\
UTD = Unable to Determine

Time must be recorded in military time format. With the exception of Midnight and Noon:
- If the time is in the a.m., conversion is not required.
- If the time is in the p.m., add 12 to the clock time hour.

Examples:
Midnight - 00:00 \quad Noon - 12:00 \\
5:31 am - 05:31 \quad 5:31 pm - 17:31 \\
11:59 am - 11:59 \quad 11:59 pm - 23:59

Note: 00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Discharge Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.

When converting Midnight or 24:00 to 00:00 do not forget to
change the Discharge Date.
Example: Midnight or 24:00 on 11-24-20XX = 00:00 on 11-25-20XX

**Note:**
Transmission of a case with an invalid date will be rejected from the OPPS Clinical Warehouse. Use of “UTD” for BMP Results Date and Time allows the case to be accepted into the warehouse.

**Notes for Abstraction:**
For times that include “seconds”, remove the seconds and record the military time
Example: 15:00:35 would be recorded as 15:00

If the date and/or time of the BMP or electrolyte panel result is unable to be determined from medical record documentation, abstract UTD.

Abstract the result of the earliest BMP or electrolyte panel ordered (closest to arrival).

If there are multiple result times documented for the same BMP or electrolyte panel, use the earliest result time.

**Suggested Data Sources:**
- Emergency Department record

**Guidelines for Abstraction:**

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
**DATA ELEMENT NAME:** CBC Order  
**COLLECTED FOR:** ED  
**DEFINITION:** Documentation in the medical record a Completed Blood Count (CBC) was ordered during the emergency department visit.  
**SUGGESTED DATA COLLECTION QUESTION:** Was a CBC ordered by the physician/APN/PA during the emergency department visit?  
**FORMAT:** Length: 1  
Type: Alphanumeric  
**Occurs:** 1  
**ALLOWABLE VALUES:**  
Y (Yes) There is documentation a CBC was ordered by the physician/APN/PA during the emergency department visit.  
N (No) There is no documentation a CBC was ordered by the physician/APN/PA during the emergency department visit.  
**NOTES FOR ABSTRACTION:** If there is documentation a CBC was ordered and then the test was cancelled by the physician/APN/PA, select NO.  
**DATA SOURCES:**  
Nurses Notes  
Physician Notes/Orders  
Radiology Notes  
**Guidelines for Abstraction:**  
<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name: CBC Order Date and Time

Collected For: ED

Definition: The month, day, year and the exact time (military time) represented in hours and minutes at which the earliest Complete Blood Count (CBC) was ordered.

Suggested Data Collection Question: What is the date and time of the earliest CBC order?

Format: Length: 16 – MM-DD-YYYY (includes dashes) and HH:MM (with or without colon) or UTD
Type: Date/Time
Occurs: 1

Allowable Values:

<table>
<thead>
<tr>
<th>MM</th>
<th>=</th>
<th>Month (01-12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD</td>
<td>=</td>
<td>Day (01-31)</td>
</tr>
<tr>
<td>YYYY</td>
<td>=</td>
<td>Year (2000-Current Year)</td>
</tr>
<tr>
<td>HH</td>
<td>=</td>
<td>Hour (00-23)</td>
</tr>
<tr>
<td>MM</td>
<td>=</td>
<td>Minutes (00-59)</td>
</tr>
<tr>
<td>UTD</td>
<td>=</td>
<td>Unable to Determine</td>
</tr>
</tbody>
</table>

Time must be recorded in military time format. With the exception of Midnight and Noon:
- If the time is in the a.m., conversion is not required.
- If the time is in the p.m., add 12 to the clock time hour.

Examples:
- Midnight - 00:00
- Noon - 12:00
- 5:31 am - 05:31
- 5:31 pm - 17:31
- 11:59 am - 11:59
- 11:59 pm - 23:59

Note:
00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Discharge Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.
When converting Midnight or 24:00 to 00:00 do not forget to change the Discharge Date.
Example: Midnight or 24:00 on 11-24-20XX = 00:00 on 11-25-20XX

**Note:**
Transmission of a case with an invalid date will be rejected from the OPPS Clinical Warehouse. Use of “UTD” for *CBC Order Date and Time* allows the case to be accepted into the warehouse.

**Notes for Abstraction:**
For times that include “seconds”, remove the seconds and record the military time
Example:
15:00:35 would be recorded as 15:00

If the date and/or time of the CBC order is unable to be determined from medical record documentation, abstract UTD.

Abstract the order of the earliest CBC ordered (closest to arrival).

If there are multiple order times documented for the same CBC order, use the earliest order time.

**Suggested Data Sources:**
- Emergency Department record

**Guidelines for Abstraction:**

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
**Data Element Name:** CBC Results Date and Time  

**Collected For:** ED  

**Definition:** The month, day, year and the exact time (military time) represented in hours and minutes at which the earliest Completed Blood Count (CBC) results were reported.

**Suggested Data Collection Question:** What is the date and time of the earliest CBC results?

**Format:**  

<table>
<thead>
<tr>
<th>Length</th>
<th>MM-DD-YYYY (includes dashes) and HH:MM (with or without colon) or UTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Date/Time</td>
</tr>
<tr>
<td>Occurs</td>
<td>1</td>
</tr>
</tbody>
</table>

**Allowable Values:**  

<table>
<thead>
<tr>
<th>MM</th>
<th>Month (01-12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD</td>
<td>Day (01-31)</td>
</tr>
<tr>
<td>YYYY</td>
<td>Year (2000-Current Year)</td>
</tr>
<tr>
<td>HH</td>
<td>Hour (00-23)</td>
</tr>
<tr>
<td>MM</td>
<td>Minutes (00-59)</td>
</tr>
<tr>
<td>UTD</td>
<td>Unable to Determine</td>
</tr>
</tbody>
</table>

Time must be recorded in military time format. With the exception of Midnight and Noon:

- If the time is in the a.m., conversion is not required.
- If the time is in the p.m., add 12 to the clock time hour.

**Examples:**  

| Midnight - 00:00 | Noon - 12:00 | 5:31 am - 05:31 | 5:31 pm - 17:31 | 11:59 am - 11:59 | 11:59 pm - 23:59 |

**Note:**  

00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Discharge Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.

When converting Midnight or 24:00 to 00:00 do not forget to...
change the Discharge Date.
Example: Midnight or 24:00 on 11-24-20XX = 00:00 on 11-25-20XX

Note:
Transmission of a case with an invalid date will be rejected from the OPPS Clinical Warehouse. Use of “UTD” for CBC Results Date and Time allows the case to be accepted into the warehouse.

Notes for Abstraction:
For times that include “seconds”, remove the seconds and record the military time
Example:
15:00:35 would be recorded as 15:00

If the date and/or time of the CBC result is unable to be determined from medical record documentation, abstract UTD.

Abstract the result of the earliest CBC ordered (closest to arrival).

If there are multiple result times documented for the same CBC, use the earliest result time.

Suggested Data Sources:
- Emergency Department record

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
DATA ELEMENT NAME: Chest X-Ray Order

COLLECTED FOR: ED

DEFINITION: Documentation in the medical record a chest x-ray was ordered during the emergency department visit.

SUGGESTED DATA COLLECTION QUESTION: Was a chest x-ray ordered by the physician/APN/PA during the emergency department visit?

FORMAT:

- Length: 1
- Type: Alphanumeric
- Occurs: 1

ALLOWABLE VALUES:

- Y (Yes) There is documentation a chest x-ray was ordered by the physician/APN/PA during the emergency department visit.
- N (No) There is no documentation a chest x-ray was ordered by the physician/APN/PA during the emergency department visit.

NOTES FOR ABSTRACTION: For purposes of the chest x-ray order use these priority sources:

- Nurses notes
- Physician notes/orders
- Radiology notes

DATA SOURCES: Nurses Notes
Physician Notes/Orders
Radiology Notes

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Data Element Name: Chest X-Ray Order Date and Time
Collected For: ED

Definition: The month, day, year and the exact time (military time) represented in hours and minutes at which the earliest Chest X-Ray (CXR) panel was ordered.

Suggested Data Collection Question: What is the date and time of the earliest CXR order?

Format:

<table>
<thead>
<tr>
<th>Length</th>
<th>MM-DD-YYYY (includes dashes) and HH:MM (with or without colon) or UTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Date/Time</td>
</tr>
<tr>
<td>Occurs</td>
<td>1</td>
</tr>
</tbody>
</table>

Allowable Values:

<table>
<thead>
<tr>
<th>MM</th>
<th>Month (01-12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD</td>
<td>Day (01-31)</td>
</tr>
<tr>
<td>YYYY</td>
<td>Year (2000-Current Year)</td>
</tr>
<tr>
<td>HH</td>
<td>Hour (00-23)</td>
</tr>
<tr>
<td>MM</td>
<td>Minutes (00-59)</td>
</tr>
<tr>
<td>UTD</td>
<td>Unable to Determine</td>
</tr>
</tbody>
</table>

Time must be recorded in military time format.
With the exception of Midnight and Noon:
- If the time is in the a.m., conversion is not required.
- If the time is in the p.m., add 12 to the clock time hour.

Examples:
- Midnight - 00:00
- Noon - 12:00
- 5:31 am - 05:31
- 5:31 pm - 17:31
- 11:59 am - 11:59
- 11:59 pm - 23:59

Note:
00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Discharge Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.

When converting Midnight or 24:00 to 00:00 do not forget to change the Discharge Date.
Example: Midnight or 24:00 on 11-24-20XX = 00:00 on 11-
25-20XX

**Note:**
Transmission of a case with an invalid date will be rejected from the OPPS Clinical Warehouse. Use of “UTD” for CXR *Order Date and Time* allows the case to be accepted into the warehouse.

**Notes for Abstraction:**
For times that include “seconds”, remove the seconds and record the military time
Example:
15:00:35 would be recorded as 15:00

If the date and/or time of the CXR order is unable to be determined from medical record documentation, abstract UTD.

Abstract the order of the earliest CXR ordered (closest to arrival).

If there are multiple order times documented for the same CXR order, use the earliest order time.

**Suggested Data Sources:**
- Emergency Department record

**Guidelines for Abstraction:**

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name: Chest X-Ray Exam Date and Time

Collected For: ED

Definition: The month, day, year and the exact time (military time) represented in hours and minutes at which the earliest Chest X-Ray exam was completed.

Suggested Data Collection Question: What is the date and time of the earliest Chest X-Ray exam was completed?

Format:
Length: 16 – MM-DD-YYYY (includes dashes) and HH:MM (with or without colon) or UTD
Type: Date/Time
Occurs: 1

Allowable Values:
- MM = Month (01-12)
- DD = Day (01-31)
- YYYY = Year (2000-Current Year)
- HH = Hour (00-23)
- MM = Minutes (00-59)
- UTD = Unable to Determine

Time must be recorded in military time format. With the exception of Midnight and Noon:
- If the time is in the a.m., conversion is not required.
- If the time is in the p.m., add 12 to the clock time hour.

Examples:
- Midnight - 00:00
- Noon - 12:00
- 5:31 am - 05:31
- 5:31 pm - 17:31
- 11:59 am - 11:59
- 11:59 pm - 23:59

Note:
00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Discharge Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.

When converting Midnight or 24:00 to 00:00 do not forget to
change the Discharge Date.
Example: Midnight or 24:00 on 11-24-20XX = 00:00 on 11-25-20XX

Note:
Transmission of a case with an invalid date will be rejected from the OPPS Clinical Warehouse. Use of “UTD” for Chest X-Ray Exam Date and Time allows the case to be accepted into the warehouse.

Notes for Abstraction:
For times that include “seconds”, remove the seconds and record the military time
Example:
15:00:35 would be recorded as 15:00

If the date and/or time of the Chest X-Ray exam is unable to be determined from medical record documentation, abstract UTD.

Abstract the result of the earliest Chest X-Ray exam ordered (closest to arrival).

If there are multiple result times documented for the same Chest X-Ray exam, use the earliest time.

Suggested Data Sources:
• Emergency Department record

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Data Element Name:</td>
<td>Discharge Status</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Collected For:</td>
<td>ED</td>
</tr>
<tr>
<td>Definition:</td>
<td>The place or setting to which the patient was discharged from the emergency department.</td>
</tr>
<tr>
<td>Suggested Data Collection Question:</td>
<td>What was the patient’s discharge disposition from the emergency department?</td>
</tr>
<tr>
<td>Format:</td>
<td>Length: 2</td>
</tr>
<tr>
<td></td>
<td>Type: Alphanumeric</td>
</tr>
<tr>
<td></td>
<td>Occurs: 1</td>
</tr>
<tr>
<td>Allowable Values:</td>
<td>01 Discharged to home care or self care (routine discharge)</td>
</tr>
<tr>
<td></td>
<td>Usage Note: Includes discharge to home; home on oxygen if DME only; any other DME only; group home, foster care, independent living and other residential care arrangements; outpatient programs, such as partial hospitalization or outpatient chemical dependency programs.</td>
</tr>
<tr>
<td></td>
<td>02 Discharged/transferred to a short term general hospital for inpatient care (Acute Care Facility)</td>
</tr>
<tr>
<td></td>
<td>03 Discharged/transferred to skilled nursing facility (SNF) with Medicare certification in anticipation of covered skilled care</td>
</tr>
<tr>
<td></td>
<td>Usage Note: Medicare indicates that the patient is discharged/transferred to a Medicare certified nursing facility. For hospitals with an approved swing bed arrangement, use Code 61-Swing Bed. For reporting other discharges/transfers to nursing facilities, see 04 and 64.</td>
</tr>
<tr>
<td></td>
<td>04 Discharged/transferred to a facility that provides custodial or supportive care</td>
</tr>
<tr>
<td></td>
<td>Usage Note: Includes intermediate care facilities (ICFs) if specifically designated at the state level. Also used to designate patients that are discharged/transferred to a nursing facility with neither Medicare nor Medicaid certification and for discharges/transfers to Assisted</td>
</tr>
</tbody>
</table>
Living Facilities.

05 Discharged/transfered to a designate cancer center or children’s hospital
Usage Note: Transfers to non-designated cancer hospitals should use Code 02. A list of (National Cancer Institute) Designated Cancer Centers can be found at http://www3.cancer.gov/cancercenters/centerslist.html

06 Discharged/transfered to home under care of organized home health service organization in anticipation of covered skilled care
Usage Note: Report this code when the patient is discharged/transfered to home with a written plan of care (tailored to the patient’s medical needs) for home care services.

07 Left against medical advice or discontinued care

09 Admitted as an inpatient to this hospital
Usage Note: For use only on Medicare outpatient claims. Applies only to those Medicare outpatient services that begin greater than three days prior to an admission.

20 Expired

21 Discharged/transfered to court/law enforcement
Usage Note: Includes transfers to incarceration facilities such as jail, prison, or other detention facilities.

41 Expired in a medical facility (e.g., hospital, SNF, ICF or freestanding hospice)
Usage Note: For use only on Medicare and TRICARE claims for hospice care.

43 Discharged/transfered to a Federal health care facility
Usage Note: Discharges and transfers to a government operated health care facility such as a Department of Defense hospital, a Veteran’s Administration hospital or a Veteran’s Administration nursing facility. To be used whenever the destination at discharge is a federal health care facility, whether the patient resides there or not.

50 Hospice - home

51 Hospice - medical facility (certified) providing hospice level of care

61 Discharged/transferred to hospital-based Medicare approved swing bed
   Usage Note: Medicare-used for reporting patients discharged/ transferred to a SNF level of care within the hospital's approved swing bed arrangement.

62 Discharged/transferred to an inpatient rehabilitation facility (IRF) including rehabilitation distinct part units of a hospital

63 Discharged/transferred to a Medicare certified long term care hospital (LTCH)
   Usage Note: For hospitals that meet the Medicare criteria for LTCH certification.

64 Discharged/transferred to a nursing facility certified under Medicaid but not certified under Medicare

65 Discharged/transferred to a psychiatric hospital or psychiatric distinct part of a hospital

66 Discharged/transferred to a Critical Access Hospital (CAH)

70 Discharged/transferred to another type of Health Care Institution not Defined Elsewhere in this Code List (see code 05)

Note:
CMS is aware that there are additional UB-04 allowable values for this data element; however, they are not used for
the hospital outpatient measures at this time.

Notes for Abstraction:

- The values for Discharge Status are taken from the National Uniform Billing Committee (NUBC) manual which is used by the billing/HIM to complete the UB-04.
- Because this data element is critical in determining the population for these measures, the abstractor should NOT assume that the UB-04 value is what is reflected in the medical record. For abstraction purposes, it is important that the medical record reflect the appropriate discharge status. If the abstractor determines through chart review that the claim information discharge status is not what is reflected in the medical record, correct and override the downloaded value.

Suggested Data Sources:

- Emergency Department record
- UB-04

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
**Data Element Name:** *E/M Code*

**Collected For:** OP-1, OP-2, OP-3, OP-4, OP-5

**Definition:** The code used to report evaluation and management services provided in the hospital outpatient department clinic or emergency department.

**Suggested Data Collection Question:** What was the E/M Code documented for this outpatient encounter?

**Format:**
- **Length:** 5
- **Type:** Alphanumeric
- **Occurs:** 1

**Allowable Values:** Select the E/M code from Appendix A, OP Table 1.0.

**Suggested Data Sources:**
- Outpatient record

**Guidelines for Abstraction:**

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to Appendix A, OP Table 1.0, E/M Codes.</td>
<td>None</td>
</tr>
</tbody>
</table>
DATA ELEMENT NAME: Head CT Scan Order

COLLECTED FOR: ED

DEFINITION: Documentation in the medical record that a computed topography (CT) scan of the head was ordered during emergency department visit.

SUGGESTED DATA COLLECTION QUESTION: Was a Head CT scan ordered by the physician during the emergency department visit?

FORMAT:

<table>
<thead>
<tr>
<th>Length</th>
<th>Type</th>
<th>Occurs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Alphanumeric</td>
<td>1</td>
</tr>
</tbody>
</table>

ALLOWABLE VALUES:

Y (Yes) There is documentation a Head CT scan was ordered by the physician/PA/APN during the emergency department visit.

N (No) There is no documentation a Head CT scan was ordered by the physician/PA/APN during the emergency department visit.

NOTES FOR ABSTRACTION: For purposes of the Head CT Scan Order use these priority sources:

- Nurses notes
- Physician notes/orders
- Radiology notes

DATA SOURCES:

- Nurses Notes
- Physician Notes/Orders
- Radiology Notes

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name: Head CT Scan Interpretation Date and Time

Collected For: ED

Definition: The month, day, year and the exact time (military time) represented in hours and minutes at which the earliest Head CT Scan Interpretation was completed.

Suggested Data Collection Question: What is the date and time of the earliest Head CT Scan Interpretation exam was completed?

Format: Length: 16 – MM-DD-YYYY (includes dashes) and HH:MM (with or without colon) or UTD
Type: Date/Time
Occurs: 1

Allowable Values:

| MM  | = Month (01-12) |
| DD  | = Day (01-31)  |
| YYYY| = Year (2000-Current Year) |

| HH  | = Hour (00-23) |
| MM  | = Minutes (00-59) |
| UTD | = Unable to Determine |

Time must be recorded in military time format. With the exception of Midnight and Noon:

- If the time is in the a.m., conversion is not required.
- If the time is in the p.m., add 12 to the clock time hour.

Examples:
- Midnight - 00:00
- Noon - 12:00
- 5:31 am - 05:31
- 5:31 pm - 17:31
- 11:59 am - 11:59
- 11:59 pm - 23:59

Note:
00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Discharge Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.

When converting Midnight or 24:00 to 00:00 do not forget to
change the Discharge Date.
Example: Midnight or 24:00 on 11-24-20XX = 00:00 on 11-25-20XX

**Note:**
Transmission of a case with an invalid date will be rejected from the OPPS Clinical Warehouse. Use of “UTD” for *Head CT Scan Interpretation Date and Time* allows the case to be accepted into the warehouse.

**Notes for Abstraction:**

For times that include “seconds”, remove the seconds and record the military time
Example:
15:00:35 would be recorded as 15:00

If the date and/or time of the Head CT Scan Interpretation results is unable to be determined from medical record documentation, abstract UTD.

Abstract the result of the earliest Head Ct Scan Interpretation ordered (closest to arrival).

If there are multiple result times documented for the same Head CT Scan, use the earliest time.

**Suggested Data Sources:**

- Emergency Department record

**Guidelines for Abstraction:**

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
**Data Element Name:** Heat CT Scan Order Date and Time

**Collected For:** ED

**Definition:** The month, day, year and the exact time (military time) represented in hours and minutes at which the earliest Head CT Scan was ordered.

**Suggested Data Collection Question:** What is the date and time of the earliest Head CT Scan order?

**Format:**

- **Length:** 16 – MM-DD-YYYY (includes dashes) and HH:MM (with or without colon) or UTD
- **Type:** Date/Time
- **Occurs:** 1

**Allowable Values:**

- **MM** = Month (01-12)
- **DD** = Day (01-31)
- **YYYY** = Year (2000-Current Year)
- **HH** = Hour (00-23)
- **MM** = Minutes (00-59)
- **UTD** = Unable to Determine

Time must be recorded in military time format. With the exception of Midnight and Noon:

- If the time is in the a.m., conversion is not required.
- If the time is in the p.m., add 12 to the clock time hour.

**Examples:**

- Midnight - 00:00
- Noon - 12:00
- 5:31 am - 05:31
- 5:31 pm - 17:31
- 11:59 am - 11:59
- 11:59 pm - 23:59

**Note:**

00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Discharge Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.

When converting Midnight or 24:00 to 00:00 do not forget to...
change the Discharge Date.
Example: Midnight or 24:00 on 11-24-20XX = 00:00 on 11-25-20XX

Note:
Transmission of a case with an invalid date will be rejected from the OPPS Clinical Warehouse. Use of “UTD” for Head CT Scan Order Date and Time allows the case to be accepted into the warehouse.

Notes for Abstraction:

For times that include “seconds”, remove the seconds and record the military time
Example:
15:00:35 would be recorded as 15:00

If the date and/or time of the Head CT Scan order is unable to be determined from medical record documentation, abstract UTD.

Abstract the order of the earliest Head CT Scan ordered (closest to arrival).

If there are multiple order times documented for the same Head CT Scan order, use the earliest order time.

Suggested Data Sources:

- Emergency Department record

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name: ICD-9-CM Principal Diagnosis Code

Collected For: ED

Definition: The International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) code associated with the diagnosis established after study to be chiefly responsible for the outpatient encounter.

Suggested Data Collection Question: What was the ICD-9-CM code selected as the principal diagnosis for this record?

Format: Length: 6 (with or without a decimal point) Type: Alphanumeric Occurs: 1

Allowable Values: Any valid ICD-9-CM diagnosis code

Notes for Abstraction: The principal diagnosis is defined in the Uniform Hospital Discharge Data Set (UHDDS) as “that condition established after study to be chiefly responsible for occasioning the admission of the patient to the hospital for care.”

Suggested Data Sources: • Outpatient record • Emergency Department record • UB-04, Field Location: 67

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to Appendix A, ICD-9-CM Code tables</td>
<td>None</td>
</tr>
</tbody>
</table>
DATA ELEMENT NAME: Left Before Seen by Physician

COLLECTED FOR: ED

DEFINITION: There is documentation the patient left the emergency department prior to being seen by the physician/APN/PA.

SUGGESTED DATA COLLECTION QUESTION: Was there documentation the patient left the emergency department before being seen by the physician/PA/APN?

FORMAT:
Length: 1
Type: Alphanumeric
Occurs: 1

ALLOWABLE VALUES:
Y (Yes) There is documentation the patient left the emergency department prior to being seen by the physician/PA/APN.

N (No) There is no documentation the patient left the emergency department prior to being seen by the physician/PA/APN or unable to determine (UTD).

NOTES FOR ABSTRACTION:
If there is physician/PA/APN documentation of patient assessment select NO.

Left before seen by the physician/APN/PA is different than leaving against medical advice (AMA) or leaving before treatment is complete. If there is documentation of the patient leaving AMA or leaving before treatment complete, select NO.

DATA SOURCES: Nurses Notes
Physician Notes

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to Appendix A, ICD-9-CM Code tables</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name: Observation Services

Collected For: Informational Only: ED-1, ED-2

Definition: Observation services are those services furnished by a hospital on the hospital's premises, including use of a bed and periodic monitoring by a hospital's nursing or other staff, which are reasonable and necessary to evaluate an outpatient's condition or determine the need for a possible admission to the hospital as an inpatient.

Suggested Data Collection Question: Was there documentation the patient was placed in observation services during the encounter or hospitalization?

Format:
- Length: 1
- Type: Alphanumeric
- Occurs: 1

Allowable Values:
- Y (Yes) There was documentation the patient was placed into observation services in this facility’s emergency department.
- N (No) There was no documentation the patient was placed into observation services in this facility’s emergency department or unable to determine from medical record documentation.

Notes for Abstraction:
- If there is documentation the patient was placed into observation services and received care in observation provide by the emergency department or an observation unit of the emergency department, select “Yes.”
- If there is documentation the patient is being admitted for observation outside the emergency department, select “No.”
- If there is no documentation the patient received services in observation either in the emergency department or was to be admitted to another department for observation, select “No.”
- The intent is to capture emergency department patients placed into observation services prior to admission to the facility as an inpatient.

Suggested Data Sources:
ONLY ALLOWABLE SOURCES:
Emergency Department record

Inclusion Guidelines for Abstraction:
None
Exclusion Guidelines for Abstraction:
None
Data Element Name: *Outpatient Encounter Date*

Collected For: All Records

Definition: The documented month, day and year the patient arrived in the hospital outpatient setting.

Suggested Data Collection Question: What was date the patient arrived in the hospital outpatient setting?

Format:

- Length: 10 – MM-DD-YYYY (includes dashes)
- Type: Date
- Occurs: 1

Allowable Values:

- MM = Month (01-12)
- DD = Day (01-31)
- YYYY = Year (2008-Current Year)

Notes for Abstraction:

- The intent of this data element is to determine the date the patient arrived in the hospital outpatient setting.
- UTD is NOT an allowable value.
- Consider the outpatient encounter date as the earliest documented date the patient arrived in the applicable hospital outpatient setting.

Suggested Data Sources:

- Outpatient record
- Emergency Department record

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
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</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
DATA ELEMENT NAME: Pain Medication

COLLECTED FOR: ED

DEFINITION: Documentation the patient was administered oral or parenteral pain medication. Assessment and relief of pain is an expectation patients have when they visit the ED. Documentation of medication administration is a standard of care.

SUGGESTED DATA COLLECTION QUESTION: Was there documentation the patient received oral or parenteral pain medication during this emergency department visit?

FORMAT: Length: 1
Type: Alphanumeric
Occurs: 1

ALLOWABLE VALUES: Y (Yes) There is documentation the patient received oral or parenteral pain medication or there is documentation the patient refused the pain medication during this emergency department visit.

N (No) There is no documentation the patient received oral or parenteral pain medication during this emergency department visit or unable to determine from medical record documentation.

NOTES FOR ABSTRACTION: In order to select “yes”:
- There must be documentation in the medical record the medication was administered in the emergency department, not just ordered.
- There must be documentation in the medical record of the medication route either in the physician orders or the medication administration documentation.
- Medication administration documentation must include the signature or initials of the person administering the medication.
- If there is documentation in the medical record the patient received pain medication prior to arrival, abstract as “yes”.
- If there is physician/PA/APN documentation of a reason for not administering pain medication, select “No”. E.g. pt unconscious, decreased respiratory rate, patient refusal.

DATA SOURCES:  
Nurses Notes  
Physician Notes

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
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</thead>
<tbody>
<tr>
<td>See Appendix C, OP Table 8.1 for a list of pain medications</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name:  

*Pain Medication Date and Time*

Collected For:  
ED

Definition:  
The month, day, year and the exact time (military time) represented in hours and minutes at which the earliest oral or parenteral pain medication was administered.

Suggested Data Collection Question:  
What is the date and time of the earliest pain medication administration?

Format:  
Length: 16 – MM-DD-YYYY (includes dashes) and HH:MM (with or without colon) or UTD

Type:  
Date/Time

Occurs: 1

Allowable Values:  
MM = Month (01-12)  
DD = Day (01-31)  
YYYY = Year (2000-Current Year)

HH = Hour (00-23)  
MM = Minutes (00-59)

UTD = Unable to Determine

Time must be recorded in military time format.  
With the exception of Midnight and Noon:
- If the time is in the a.m., conversion is not required.  
- If the time is in the p.m., add 12 to the clock time hour.

Examples:
Midnight - 00:00  
Noon - 12:00  
5:31 am - 05:31  
5:31 pm - 17:31  
11:59 am - 11:59  
11:59 pm - 23:59

Note:
00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Discharge Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.

When converting Midnight or 24:00 to 00:00 do not forget to
change the Discharge Date.
Example: Midnight or 24:00 on 11-24-20XX = 00:00 on 11-25-20XX

Note:
Transmission of a case with an invalid date will be rejected from the OPPS Clinical Warehouse. Use of “UTD” for Pain Medication Date and Time allows the case to be accepted into the warehouse.

Notes for Abstraction:

For times that include “seconds”, remove the seconds and record the military time
Example:
15:00:35 would be recorded as 15:00

If the date and/or time of the pain medication administration is unable to be determined from medical record documentation, abstract UTD.

If there are multiple medication administration times documented, use the earliest result time.

If there is documentation in the medical record the patient received pain medication prior to arrival abstract the pain medication date and time as the patient arrival date and time.

Suggested Data Sources:
• Emergency Department record

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
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</tbody>
</table>
DATA ELEMENT NAME: Troponin Order

COLLECTED FOR: ED

DEFINITION: Documentation in the medical record a Troponin was ordered during emergency department visit.

SUGGESTED DATA COLLECTION QUESTION: Was a Troponin ordered by the physician/APN/PA during the emergency department visit?

FORMAT: 
- **Length:** 1
- **Type:** Alphanumeric
- **Occurs:** 1

ALLOWABLE VALUES: 
- Y (Yes) There is documentation the physician/APN/PA ordered a Troponin during the emergency department visit.
- N (No) There is no documentation the physician/APN/PA ordered a Troponin during the emergency department visit or unable to determine (UTD).

NOTES FOR ABSTRACTION: If there is documentation a Troponin was ordered and then the test was cancelled by the physician/APN/PA, select NO.

DATA SOURCES: 
- Nurses Notes
- Physician Notes/Orders
- Radiology Notes

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
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</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name:  *Troponin Order Date and Time*

Collected For:  ED

Definition:  The month, day, year and the exact time (military time) represented in hours and minutes at which the earliest Troponin was ordered.

Suggested Data Collection Question:  What is the date and time of the earliest Troponin order?

Format:  
Length:  16 – MM-DD-YYYY (includes dashes) and HH:MM (with or without colon) or UTD
Type:  Date/Time
Occurs:  1

Allowable Values:  
MM = Month (01-12)
DD = Day (01-31)
YYYY = Year (2000-Current Year)
HH = Hour (00-23)
MM = Minutes (00-59)
UTD = Unable to Determine

Time must be recorded in military time format. With the exception of Midnight and Noon:
- If the time is in the a.m., conversion is not required.
- If the time is in the p.m., add 12 to the clock time hour.

Examples:
Midnight - 00:00  Noon - 12:00
5:31 am - 05:31  5:31 pm - 17:31
11:59 am - 11:59 11:59 pm - 23:59

Note:
00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Discharge Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.

When converting Midnight or 24:00 to 00:00 do not forget to
change the Discharge Date.
Example: Midnight or 24:00 on 11-24-20XX = 00:00 on 11-25-20XX

Note:
Transmission of a case with an invalid date will be rejected from the OPPS Clinical Warehouse. Use of “UTD” for Troponin Order Date and Time allows the case to be accepted into the warehouse.

Notes for Abstraction:
For times that include “seconds”, remove the seconds and record the military time
Example:
15:00:35 would be recorded as 15:00

If the date and/or time of the Troponin order is unable to be determined from medical record documentation, abstract UTD.

Abstract the order of the earliest Troponin ordered (closest to arrival).

If there are multiple order times documented for the same Troponin order, use the earliest order time.

Suggested Data Sources:
- Emergency Department record

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Data Element Name: Troponin Results Date and Time

Collected For: ED

Definition: The month, day, year and the exact time (military time) represented in hours and minutes at which the earliest Troponin results were reported.

Suggested Data Collection Question: What is the date and time of the earliest Troponin results?

Format: Length: 16 – MM-DD-YYYY (includes dashes) and HH:MM (with or without colon) or UTD

Type: Date/Time

Occurs: 1

Allowable Values:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tbody>
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<td>DD</td>
<td>Day (01-31)</td>
</tr>
<tr>
<td>YYYY</td>
<td>Year (2000-Current Year)</td>
</tr>
<tr>
<td>HH</td>
<td>Hour (00-23)</td>
</tr>
<tr>
<td>MM</td>
<td>Minutes (00-59)</td>
</tr>
<tr>
<td>UTD</td>
<td>Unable to Determine</td>
</tr>
</tbody>
</table>

Time must be recorded in military time format. With the exception of Midnight and Noon:

- If the time is in the a.m., conversion is not required.
- If the time is in the p.m., add 12 to the clock time hour.

Examples:

<table>
<thead>
<tr>
<th>Time Format</th>
<th>Military Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midnight</td>
<td>00:00</td>
</tr>
<tr>
<td>Noon</td>
<td>12:00</td>
</tr>
<tr>
<td>5:31 am</td>
<td>05:31</td>
</tr>
<tr>
<td>5:31 pm</td>
<td>17:31</td>
</tr>
<tr>
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</tr>
<tr>
<td>11:59 pm</td>
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Note: 00:00 = midnight. If the time is documented as 00:00 11-24-20XX, review supporting documentation to determine if the Discharge Date should remain 11-24-20XX or if it should be converted to 11-25-20XX.

When converting Midnight or 24:00 to 00:00 do not forget to
change the Discharge Date.  
Example:  Midnight or 24:00 on 11-24-20XX = 00:00 on 11-25-20XX

Note:  
Transmission of a case with an invalid date will be rejected from the OPPS Clinical Warehouse. Use of “UTD” for Troponin Results Date and Time allows the case to be accepted into the warehouse.

Notes for Abstraction:

For times that include “seconds”, remove the seconds and record the military time  
Example:  
15:00:35 would be recorded as 15:00

If the date and/or time of the Troponin result is unable to be determined from medical record documentation, abstract UTD.

Abstract the result of the earliest Troponin ordered (closest to arrival).

If there are multiple result times documented for the same Troponin, use the earliest result time.

Suggested Data Sources:

• Emergency Department record

Guidelines for Abstraction:

<table>
<thead>
<tr>
<th>Inclusion</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
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