NATIONAL QUALITY FORUM

Measure Evaluation 4.1 January 2010

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-036-10 NQF Project: Ambulatory Care - Additional Outpatient Measures 2010

MEASURE DESCRIPTIVE INFORMATION

De.1 Measure Title: Patient(s) with an emergency medicine visit for non-traumatic chest pain that had an ECG.

De.2 Brief description of measure: This measure identifies patients with an emergency medicine visit for non-traumatic chest pain that had an ECG done as part of their evaluation.

1.1-2 Type of Measure: process

De.3 If included in a composite or paired with another measure, please identify composite or paired measure Does not apply

De.4 National Priority Partners Priority Area: care coordination

De.5 IOM Quality Domain: effectiveness

De.6 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:	NQF Staff
 A. The measure is in the public domain or an intellectual property (measure steward agreement) is signed. <i>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.</i> 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 (<i>as defined in measure steward agreement</i>): proprietary measure A.3 Measure Steward Agreement: agreement signed and submitted A.4 Measure Steward Agreement attached: Measure steward addendum_Ingenix 012510-634000232573535247.doc 	A Y N

NQF #ACP-	036-10
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	B Y□ N□
 C. The intended use of the measure includes <u>both</u> public reporting <u>and</u> quality improvement. Purpose: public reporting, quality improvement Payment Incentive, Accountability 	C Y N
 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. D.1Testing: Yes, fully developed and tested D.2 Have NQF-endorsed measures been reviewed to identify if there are similar or related measures? Yes 	D Y N
(for NQF staff use) Have all conditions for consideration been met? Staff Notes to Steward (<i>if submission returned</i>): Staff Notes to Reviewers (<i>issues or questions regarding any criteria</i>):	Met Y N
Staff Reviewer Name(s):	

TAP/Workgroup Reviewer Name:

Steering Committee Reviewer Name:

1. IMPORTANCE TO MEASURE AND REPORT

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: patient/societal consequences of poor quality, affects large numbers
1a.2

1a.3 Summary of Evidence of High Impact: ST-segment elevation myocardial infarction (STEMI) remains a significant public health problem in industrialized countries (1). Based on one conservative estimate, at least 500,000 STEMI events occur each year in the U.S. (2). Because there is strong evidence that ST-segment elevation identifies patients who benefit from reperfusion therapy, a 12-lead ECG in the emergency department is essential to the therapeutic decision pathway (2).

1a.4 Citations for Evidence of High Impact: 1. Rogers WJ, Canto JG, Lambrew CT, et al. Temporal trends in the treatment of over 1.5 million patients with myocardial infarction in the US from 1990 through 1999: the National Registry of Myocardial Infarction 1, 2 and 3. J Am Coll Cardiol 2000;36:2056-63. 2. Antman EM, Anbe DT, Armstrong PW, Bates ER, Green LA, Hand M, Hochman JS, Krumholz HM, Kushner FG, Lamas GA, Mullany CJ, Ornato JP, Pearle DL, Sloan MA, Smith SC Jr. ACC/AHA guidelines for the management of patients with ST-elevation myocardial infarction: executive summary: a report of the ACC/AHA Task Force on Practice Guidelines (Committee to Revise the 1999 Guidelines on the Management of Patients With Acute Myocardial Infarction). J Am Coll Cardiol 2004;44:671-719.

1b. Opportunity for Improvement

1a C P M N 1b

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Eval

Rating

Comment [KP2]: 1b. Demonstration of quality problems and opportunity for improvement, i.e., data demonstrating considerable variation, or overall poor performance, in the quality of care across providers and/or population groups (disparities in care).

Comment [KP1]: 1a. The measure focus

•a specific national health goal/priority identified by NQF's National Priorities

•a demonstrated high impact aspect of healthcare (e.g., affects large numbers,

leading cause of morbidity/mortality, high resource use (current and/or future), severity

of illness, and patient/societal consequences

addresses

Partners; OR

of poor quality).

1b.1 Benefits (improvements in quality) envisioned by use of this measure: This measure will identify patients with an emergency department visit for non-traumatic chest pain who had an ECG as part of their evaluation. This evaluation will identify patients with cardiac ischemic events who should receive targeted interventions demonstrated to reduce morbidity and mortality.

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

Using a geographically diverse 15 million member benchmark database (this database represents predominately a commercial population less than 65 year of age) the compliance rate was 78.6 percent, indicating a clear gap in care and opportunity for care improvement.

1b.3 Citations for data on performance gap: Ingenix EBM Connect benchmark results, September 2009

1b.4 Summary of Data on disparities by population group: None

1b.5 Citations for data on Disparities:

1c. Outcome or Evidence to Support Measure Focus

1c.1 Relationship to Outcomes (*For non-outcome measures, briefly describe the relationship to desired outcome. For outcomes, describe why it is relevant to the target population*): This measure will identify patients with an emergency department visit for non-traumatic chest pain who had an ECG as part of their evaluation. An ECG is essential in order to identify patients with cardiac ischemia who should receive targeted interventions that have been demonstrated to reduce morbidity and mortality.

1c.2-3. Type of Evidence: evidence based guideline, expert opinion

1c.4 Summary of Evidence (as described in the criteria; for outcomes, summarize any evidence that healthcare services/care processes influence the outcome):

Adults who present to an emergency room with non-traumatic chest pain should have a 12-lead electrocardiogram (ECG) performed and read by a physician within ten minutes of arrival. Prompt identification of ischemia or infarction on an ECG can result in quick initiation of life-saving interventions such as anti-embolic medication or percutaneous procedures (1). This is a recommendation from ACC/AHA guidelines (1).

1c.5 Rating of strength/quality of evidence (also provide narrative description of the rating and by whom):

ACC/AHA: Class 1 Recommendation; Level of Evidence C

1c.6 Method for rating evidence: ACC/AHA Classification of Recommendations
Class I: Conditions for which there is evidence for and/or general agreement that the procedure or treatment is useful and effective.
Class II: Conditions for which there is conflicting evidence and/or divergence of opinion about the usefulness/efficacy of a procedure or treatment.
Class II: The weight of evidence or opinion is in favor of the procedure or treatment.
Class III: Sefulness/efficacy is less well established by evidence or opinion.
Class III: Conditions for which there is evidence and/or general agreement that the procedure or treatment is not useful/effective and in some cases may be harmful.
ACC/AHA Levels of Evidence:

Level A: Data from multiple randomized clinical trials or meta-analyses. Level B: Data derived from a single randomized trial, or nonrandomized studies. Level C: Only consensus opinion of experts, case studies, or standard-of-care.

1c.7 Summary of Controversy/Contradictory Evidence: None identified. This recommendation is supported by AMA PCPI and CMS PQRI measures that address this aspect of care.

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

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Comment [k3]: 1 Examples of data on opportunity for improvement include, but are not limited to: prior studies, epidemiologic data, measure data from pilot testing or implementation. If data are not available, the measure focus is systematically assessed (e.g., expert panel rating) and judged to be a quality problem.

Comment [k4]: 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

or if an intermediate outcome, process, structure, etc., there is evidence that supports the specific measure focus as follows: <u>oIntermediate outcome</u> – evidence that the measured intermediate outcome (e.g., blood pressure, Hba1c) leads to improved health/avoidance of harm or cost/benefit. <u>oProcess</u> – 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 multistep care process, it measures the step that has the greatest effect on improving the specified desired outcome(s).

o<u>Structure</u> - 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.

o<u>Patient experience</u> - evidence that an association exists between the measure of patient experience of health care and th(....[1]

Comment [k5]: 4 Clinical care processes typically include multiple steps: assess \rightarrow identify problem/potential problem \rightarrow choose/plan intervention (with patient input) \rightarrow provide intervention \rightarrow evaluate impact on health status. If the measure focus is one step in such a multi-step process, the step with the greatest effect on the desired outcome should be selected as the focus of measurement. For example, although assessment of immunization status and recommending immunization are necessary steps, they are not sufficient to achieve the desired impact on health status patients must be vaccinated to achieve immunity. This does not preclude consideration of measures of preventive

screening interventions where there is a ... [2] Comment [k6]: 3 The strength of the body of

evidence for the specific measure focus should be systematically assessed and rated (e.g., USPSTF grading system

http://www.ahrq.gov/clinic/uspstf07/method s/benefit.htm). If the USPSTF grading system was not used, the grading system is explained including how it relates to the USPSTF grades or why it does not. However, evidence is not limited to quantitative studies and the best type of evidence depends upon the question being studied (e.g., randomized controlled trials appropriate for studying drug efficacy are not well suited for complex system changes). When qualitative research criteria are used to judge the strength of the evidence.

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1c.8 Citations for Evidence (other than guidelines):	
1c.9 Quote the Specific guideline recommendation (<i>including guideline number and/or page number</i>): ACC/AHA guideline - page 678	
A 12-lead ECG should be performed and shown to an experienced emergency physician within 10 minutes of ED arrival for all patients with chest discomfort (or anginal equivalent) or other symptoms suggestive of STEMI. (ACC/AHA)(Class I, Level C)	
The 12-lead ECG in the ED is at the center of the therapeutic decision pathway because of the strong evidence that ST-segment elevation identifies patients who benefit from reperfusion therapy.	
1c.10 Clinical Practice Guideline Citation: 1. Antman EM, Anbe DT, Armstrong PW, Bates ER, Green LA, Hand M, Hochman JS, Krumholz HM, Kushner FG, Lamas GA, Mullany CJ, Ornato JP, Pearle DL, Sloan MA, Smith SC Jr. ACC/AHA guidelines for the management of patients with ST-elevation myocardial infarction: executive summary: a report of the ACC/AHA Task Force on Practice Guidelines (Committee to Revise the 1999 Guidelines on the Management of Patients With Acute Myocardial Infarction). J Am Coll Cardiol 2004;44:671-719.	
1c.11 National Guideline Clearinghouse or other URL: www.acc.org	
1c.12 Rating of strength of recommendation (also provide narrative description of the rating and by	
whom): ACC/AHA: Class 1 Recommendation; Level of Evidence C	
1c.13 Method for rating strength of recommendation (<i>If different from</i> USPSTF system, <i>also describe rating and how it relates to USPSTF</i>): The rating system is described in	
1c.14 Rationale for using this guideline over others: This internationally recognized 2004 guideline was developed through a collaborative effort involving the American College of Cardiology and American Heart Association Task Force. The 2009 guideline represents a focused update that only addresses aspects of STEMI care that have changed since the 2004 guidelines were published. As such, ECG testing was not addressed in the 2009 guideline.	
TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for <i>Importance</i> to Measure and Report?	1
Steering Committee: Was the threshold criterion, <i>Importance to Measure and Report</i> , met? Rationale:	1 Y N
2. SCIENTIFIC ACCEPTABILITY OF MEASURE PROPERTIES	
Extent to which the measure, <u>as specified</u> , produces consistent (reliable) and credible (valid) results about the quality of care when implemented. (evaluation criteria)	Eval Rating
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	- - 2a
2a.1 Numerator Statement (<i>Brief, text description of the numerator - what is being measured about the target population, e.g. target condition, event, or outcome</i>): Patients who have an emergency medicine visit for non-traumatic chest pain, who had an electrocardiogram (ECG) during the event	specs C P M N N

Comment [KP8]: 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).

4

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

Comment [k7]: USPSTF grading system http://www.ahrq.gov/clinic/uspstf/grades.ht m: 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.

	NQF #AU
2a.2 Numerator Time Window	ו (The time period in which cases are eligible for inclusion in the
numerator):	
During the emergency medicir	e event, defined as one day prior to the start date of the emergency
	ne day after the end date of the emergency medicine encounter
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2a.3 Numerator Details (All in	nformation required to collect/calculate the numerator, including all codes,
logic, and definitions):	
· · · · · · · · · · · · · · · · · · ·	one of the following criteria (A or B) during the following time period: one
	he emergency medicine encounter through one day after the end date of the
emergency medicine encounte	
U	ocardiogram (ECG) (code sets PR0304, RV0304, LC0049)
	ECG performed (code set PR0305) and NO claim with a procedure code for
	dicated a reason for not obtaining a 12-lead ECG (code set PR0306)
	ure Exclusion Modifier due to medical reasons)
	ure Exclusion Modifier due to patient reasons)
2. Zr (renormance meas	are Exclusion mounter due to patient reasons)
Cd. Set Cd. Set Description	Procedure Code
PR0304 Electrocardiography	0178T
PR0304 Electrocardiography	0179T
PR0304 Electrocardiography	0180T
PR0304 Electrocardiography	89.52
PR0304 Electrocardiography	89.53
PR0304 Electrocardiography PR0304 Electrocardiography	93000
	93005
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PR0304 Electrocardiography	93010
PR0304 Electrocardiography	93015
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	93018 99350
PR0304 Electrocardiography	99350
	Descentions Carda
Cd. Set Code Set Description	Procedure Code
PR0305 12-lead ECG performe	
Cd. Set Code Set Description	PR Code Modifier
PR0306 12-lead ECG performe	
PR0306 12-lead ECG performe	
Cd. Set Code Set Description	Revenue Code
RV0304 Electrocardiography	0482
RV0304 Electrocardiography	0730
RV0304 Electrocardiography	0739
	0/3/
Cd. Set Code Set Description	LOINC Code
LC0049 Electrocardiography	10000-8
LC0049 Electrocardiography	10001-6
LC0049 Electrocardiography	10002-4
LC0049 Electrocardiography	10003-2
LC0049 Electrocardiography	10004-0
LC0049 Electrocardiography LC0049 Electrocardiography	10005-7 10006-5
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LC0049 Electrocardiography	10009-9
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LC0040 Electrocordiography	
LC0049 Electrocardiography	
LC0049 Electrocardiography	10011-5

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

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LC0049 Electrocardiography	10015-6		
LC0049 Electrocardiography	10016-4		
LC0049 Electrocardiography	10017-2		
LC0049 Electrocardiography	10018-0		
LC0049 Electrocardiography	10019-8		
LC0049 Electrocardiography	10020-6		
LC0049 Electrocardiography	10021-4		
LC0049 Electrocardiography	10022-2		
LC0049 Electrocardiography	10023-0		
LC0049 Electrocardiography	10024-8		
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LC0049 Electrocardiography	10026-3		
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LC0049 Electrocardiography	10029-7		
LC0049 Electrocardiography	10030-5		
LC0049 Electrocardiography	10031-3		
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LC0049 Electrocardiography	10033-9		
LC0049 Electrocardiography	10034-7		
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LC0049 Electrocardiography	10067-7		
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 $Rating: \ C=Completely; \ P=Partially; \ M=Minimally; \ N=Not \ at \ all; \ NA=Not \ applicable$

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LC0049 Electrocardiography	10074-3		
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LC0049 Electrocardiography	10078-4		
LC0049 Electrocardiography	10079-2		
LC0049 Electrocardiography	10080-0		
LC0049 Electrocardiography	10081-8		
LC0049 Electrocardiography	10082-6		
LC0049 Electrocardiography	10083-4		
LC0049 Electrocardiography	10084-2		
LC0049 Electrocardiography	10085-9		
LC0049 Electrocardiography	10086-7		
LC0049 Electrocardiography	10087-5		
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LC0049 Electrocardiography	10089-1		
LC0049 Electrocardiography	10090-9		
LC0049 Electrocardiography	10091-7		
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LC0049 Electrocardiography	10093-3		
LC0049 Electrocardiography	10094-1		
LC0049 Electrocardiography	10095-8		
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LC0049 Electrocardiography	10097-4		
LC0049 Electrocardiography	10098-2		
LC0049 Electrocardiography	10099-0		
LC0049 Electrocardiography	10100-6		
LC0049 Electrocardiography	10101-4		
LC0049 Electrocardiography	10102-2		
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Rating: C=Completely; P=Partially; M=Minimally; N=Not at all; NA=Not applicable

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

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LC0049 Electrocardiography	18548-8	
LC0049 Electrocardiography	18549-6	
LC0049 Electrocardiography	18550-4	
LC0049 Electrocardiography	18551-2	
LC0049 Electrocardiography	18552-0	
LC0049 Electrocardiography	18553-8	
LC0049 Electrocardiography	18554-6	
LC0049 Electrocardiography	18555-3	
LC0049 Electrocardiography	18556-1	
LC0049 Electrocardiography	18557-9	
LC0049 Electrocardiography	18558-7	
LC0049 Electrocardiography	18559-5	
LC0049 Electrocardiography	18560-3	
LC0049 Electrocardiography	18561-1	
LC0049 Electrocardiography	18562-9	
LC0049 Electrocardiography	18563-7	
LC0049 Electrocardiography	18564-5	
LC0049 Electrocardiography	18565-2	
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LC0049 Electrocardiography	18579-3	
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LC0049 Electrocardiography	8608-2	
LC0049 Electrocardiography	8609-0	
LC0049 Electrocardiography	8610-8	
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LC0049 Electrocardiography	8622-3	
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 $Rating: \ C=Completely; \ P=Partially; \ M=Minimally; \ N=Not \ at \ all; \ NA=Not \ applicable$

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LC0049 Electrocardiography	9885-5		
LC0049 Electrocardiography	9886-3		
LC0049 Electrocardiography	9887-1		
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LC0049 Electrocardiography	9889-7		
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LC0049 Electrocardiography	9893-9		
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LC0049 Electrocardiography	9940-8		
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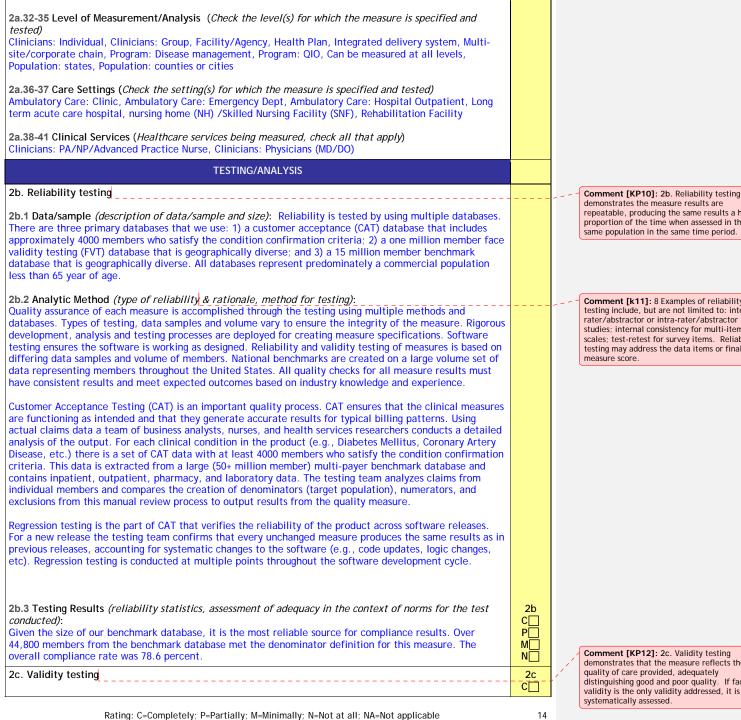
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LC0049 Electrocardiography	9943-2		
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LC0049 Electrocardiography	9996-0		
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 $Rating: \ C=Completely; \ P=Partially; \ M=Minimally; \ N=Not \ at \ all; \ NA=Not \ applicable$

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2a.4 Denominator Statement (Brief, text description of the denominator - target population being measured):		
Patients 40 years of age or older who have an emergency medicine encounter with a diagnosis of chest pain		
2a.5 Target population gender: Female, Male 2a.6 Target population age range: Patients 40 years of age or older at the end of the report period		
2a.7 Denominator Time Window (<i>The time period in which cases are eligible for inclusion in the denominator</i>):		
The following time period will be used to find eligible emergency medicine encounters: one day after the start of the 12-month report period through one day prior to the end of the 12-month report period.		
2a.8 Denominator Details (<i>All information required to collect/calculate the denominator - the target population being measured - including all codes, logic, and definitions</i>) : Criteria for inclusion in the denominator are as follows:		
1. All males or females that are 40 years of age or older at the end of the report period		
2. The patient must be continuously enrolled in both medical and pharmacy benefits throughout the emergency medicine event. The event is defined as one day prior to the start date of the emergency medicine encounter through one day after the end date of that encounter. The standard EBM Connect®		
enrollment break logic allows unlimited breaks in coverage of no more than 45 days and no breaks greater than 45 days.		
3. Build an event with a claim during the following window of time: one day after the start of the 12- month report period through one day prior to the end of the 12-month report period, where the diagnosis is non-traumatic chest pain (as defined by CMS) (code set DX0305) and the procedure on the claim is		
emergency medicine service codes (CMS defined) (code set PR0303). The emergency medicine event will encompass the following period of time: one day prior to the emergency medicine encounter through one		
day after that encounter. EBM Connect® allows multiple emergency medicine events within the time period defined in the "denominator time window" section if denominator requirements are met for all		
events.		
Cd. Set Code Set Description DX Code Diagnosis Code Description DX0305 Non-traumatic chest pain (CMS) 413.0 ANGINA DECUBITUS DX0205 Non-traumatic chest pain (CMS) 413.1 DNGINA DECUBITUS		
DX0305 Non-traumatic chest pain (CMS) 413.1 PRINZMETAL ANGINA DX0305 Non-traumatic chest pain (CMS) 413.9 OTHER & UNSPEC ANGINA PECTORIS		
DX0305 Non-traumatic chest pain (CMS) 786.50 CHEST PAIN UNSPECIFIED DX0305 Non-traumatic chest pain (CMS) 786.51 PRECORDIAL PAIN		
DX0305 Non-traumatic chest pain (CMS) 786.52 PAINFUL RESPIRATION DX0305 Non-traumatic chest pain (CMS) 786.59 OTHER CHEST PAIN		
Cd. Set Code Set Description Procedure Code		
PR0303 Emergency medicine service codes (CMS) 99281 PR0303 Emergency medicine service codes (CMS) 99282		
PR0303 Emergency medicine service codes (CMS) 99283 PR0303 Emergency medicine service codes (CMS) 99284		
PR0303 Emergency medicine service codes (CMS) 99285		
PR0303 Emergency medicine service codes (CMS) 99291		
2a.9 Denominator Exclusions (<i>Brief text description of exclusions from the target population</i>): 1. Exclude emergency medicine events that included hospitalizations		Comment [k9]: 11 Risk factors that influence outcomes should not be specified as exclusions.
 Exclude emergency medicine events without a preceding clear window Exclude emergency medicine events where the member was less than 40 years of age on the episode end date 		12 Patient preference is not a clinical exception to eligibility and can be influenced by provider interventions.
2 40 Dependent Fuel view Details (All information required to collect evolutions to the dependent of		
2a.10 Denominator Exclusion Details (<i>All information required to collect exclusions to the denominator, including all codes, logic, and definitions</i>):		
1. Exclude the event if, during the following time period: one day prior to the emergency medicine encounter through one day after that encounter, a facility event - confinement/admission (i.e.,		
Rating: C=Completely; P=Partially; M=Minimally; N=Not at all; NA=Not applicable	12	

NQF #ACP-	-036
 hospitalization) occurred. 2. Exclude the event if, on the event start date (one day prior to the start date of the emergency room encounter), there is a claim with any diagnosis where the procedure is emergency medicine service codes (CMS-defined) (code set PR0303). 3. Exclude the event if the patient was less than 40 years of age on the episode end date (defined as the end date of the emergency medicine encounter) 	
Cd. Set Code Set DescriptionProcedure CodePR0303 Emergency medicine service codes (CMS)99281PR0303 Emergency medicine service codes (CMS)99282PR0303 Emergency medicine service codes (CMS)99283PR0303 Emergency medicine service codes (CMS)99284PR0303 Emergency medicine service codes (CMS)99285PR0303 Emergency medicine service codes (CMS)99291	
2a.11 Stratification Details/Variables (All information required to stratify the measure including the stratification variables, all codes, logic, and definitions): Does not apply	
 2a.12-13 Risk Adjustment Type: no risk adjustment necessary 2a.14 Risk Adjustment Methodology/Variables (<i>List risk adjustment variables and describe conceptual models, statistical models, or other aspects of model or method</i>): 	
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): 1. Exclude members who meet denominator exclusion criteria 2. Assign a YES or NO result to remaining members based on numerator response 3. Rate = YES/[YES+NO]	
2a.22 Describe the method for discriminating performance (e.g., significance testing): Over 44,800 patients met the denominator definition from a geographically diverse 15 million member benchmark database. More than 9500 patients did not meet numerator compliance, indicating a significant population with a gap in care. The subsequent compliance rate was 78.6 percent.	
2a.23 Sampling (Survey) Methodology <i>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):</i> A 15 million patient population sample was chosen to analyze the potential patient safety gap in care. The sample was derived from more than 60 million patients based on criteria including national geographic representation, commercial health coverage and patient age less than 65.	
2a.24 Data Source (Check the source(s) for which the measure is specified and tested) Electronic adminstrative data/claims, lab data	
2a.25 Data source/data collection instrument (<i>Identify the specific data source/data collection instrument, e.g. name of database, clinical registry, collection instrument, etc.</i>): Our data source is a proprietary Ingenix provider database that includes more than 60 million patients, over multiple years. It includes data from multiple payors. This measure specifically uses the following data from this database: member demographics, ICD-9 codes, revenue codes, CPT codes, place of service codes, and LOINC EKG lab results.	
2a.26-28 Data source/data collection instrument reference web page URL or attachment:	
2a.29-31 Data dictionary/code table web page URL or attachment: Attachment Input Guide_NQF- 634013990035360963.doc	



demonstrates the measure results are repeatable, producing the same results a high proportion of the time when assessed in the same population in the same time period.

Comment [k11]: 8 Examples of reliability testing include, but are not limited to: interrater/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]: 2c. Validity testing demonstrates that 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.

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2c.1 Data/sample (description of data/sample and size): Our data sample for face validity testing includes a geographically diverse one million member database. Our data sample for benchmark testing includes a geographically diverse 15 million member database. Both databases represent predominately a commercial population less than 65 year of age.

2c.2 Analytic Method (type of validity & rationale, method for testing):

Face Validity Testing (FVT) is the final testing step in the software release cycle. One million members are randomly selected from the large multi-payer benchmark database and their claims data is processed through the software. The Medical Director reviews the results to verify that:

1. Prevalence rates for a condition are comparable to nationally published rates

2. Compliance rates for a measure are comparable to the rates reported in the published literature or by other national sources (e.g. HEDIS). If no comparable sources are available, the rates are judged based on what is clinically reasonable.

In addition, all results are reviewed for face validity by members of an external physician clinical consultant panel.

A similar review of benchmark test results occurs in conjunction with a software release. With benchmark testing, 15 million members are randomly selected from the large multi-payer benchmark database and their claims data is processed through the software.

Our claims-based measures have been validated using a chart review comparison process. This validation project is summarized below:

Goal: evaluate the reliability of claims-based measure results using chart review as the gold standard Methods:

The charts of 100 members from two clinics in one city were reviewed. Results from our claims-based measures were compared to information present in the chart. During this process, 726 measures were evaluated. Results:

The overall error rate was less than 5%. The error rate varied depending on the type of claim required for numerator compliance and is summarized as follows:

o The error rate was highest with medications, with an 11 percent error rate (2/18). From chart review, it was difficult to tell if this represented a real error, a medication sample was provided, or the prescription was never filled).

o The error rate was 4 percent (14/318) for measures that required labs for numerator compliance. It was noted that a claims-based measure approach sometimes identified labs that were missing in chart review. o The error rate for office visit and specialty appointments was 2 percent (8/390). Of note, administrative claims was more likely than chart review to identify relevant office and specialty visits, particularly for appointments that occurred outside the clinic or network.

o Errors were found related to coding in claims data, not due to the claims-based measures or methodology. These errors were not quantified.

2c.3 Testing Results (statistical results, assessment of adequacy in the context of norms for the test conducted):

Summarized in 2b3

2d. Exclusions Justified

2d.1 Summary of Evidence supporting exclusion(s): This measure does not include any exclusions.

2d.2 Citations for Evidence:

2d.3 Data/sample (description of data/sample and size):

2d.4 Analytic Method (type analysis & rationale):

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Comment [k13]: 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 experts 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

•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).

Comment [k15]: 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.

2d.5 Testing Results (e.g., frequency, variability, sensitivity analyses): 2e. Risk Adjustment for Outcomes/ Resource Use Measures[2e.1 Data/sample (description of data/sample and size): This measure does not include risk adjustment. 2e.2 Analytic Method (type of risk adjustment, analysis, & rationale]: 2e.3 Testing Results (risk model performance metrics): 2e.4 If outcome or resource use measure is not risk adjusted, provide rationale: 2f. Identification of Meaningful Differences in Performance] 2f.1 Identification of Meaningful Differences in Performance] 2f.1 Identification of meaningful Differences in Performance] 2f.4 Identification of Meaningful Differences in Performance] 2f.4 Identification of Meaningful Differences in Performance] 2f.2 Methods to identify statistically significant and practically/meaningfully differences in performance (type of analysis & rationale): During benchmark testing, 15 million members are randomly selected from the large multi-payer benchmark database and their claims data is processed through the software. The Medical Director reviews the results to verify that: 1. Prevalence rates for a condition are comparable to nationally published rates 2. Compliance rates for a condition are comparable sources are available, the rates are judged based on what is clinical consumered. 2. Compliance rates for a condition are comparable sources are available. 2. Compliance rates for a condition are comparable sources are ava	NQF #ACF	P-036-10	
2e.1 Data/sample (description of data/sample and size): This measure does not include risk adjustment. 2e.2 Analytic Method (type of risk adjustment, analysis, & rationalé): 26 2e.3 Testing Results (risk model performance metrics): M	2d.5 Testing Results (e.g., frequency, variability, sensitivity analyses):		
2e.2 Analytic Method (<i>type of risk adjustment, analysis, & rationale</i>): 2e 2e.3 Testing Results (<i>risk model performance metrics</i>): P 2e.4 If outcome or resource use measure is not risk adjusted, provide rationale: NA 2f. Identification of Meaningful Differences in Performance NA 2f.1 Data/sample from Testing or Current Use (<i>description of data/sample and size</i>): Our benchmark database represents predominately a commercial population less than 65 year of age. NA 2f.2 Methods to identify statistically significant and practically/meaningfully differences in performance (<i>type of analysis & rationale</i>): P During benchmark tababase and their claims data is processed through the software. The Medical Director reviews the results to verify that: I. revalence rates for a condition are comparable to nationally published rates 2. Compliance rates for a condition are comparable to the rates reported in the published literature or by other national sources (<i>a.g. HEDIS</i>). If no comparable sources are available, the rates are judged based on what is clinical consultant panel. Zf 2f. 3 Provide Measure Scores from Testing or Current Use (<i>description of scores, e.g., distribution by pustformance</i>): Summarized in 2b3 Zg 2g. Comparability of Multiple Data Sources/Methods! Zg 2g. Comparability of Multiple Data Sources/Methods! P 2g. 1 Data/sample (<i>description of data/sample and size</i>): 2g. 2 Analytic Method (<i>type of analysis & rationale</i>): NA NA	2e. Risk Adjustment for Outcomes/ Resource Use Measures		. – –
2e.3 Testing Results (risk model performance metrics): P 2e.4 If outcome or resource use measure is not risk adjusted, provide rationale: N 2f. Identification of Meaningful Differences in Performance 21.1 21.1 Data/sample from Testing or Current Use (description of data/sample and size): Our benchmark database represents predominately a commercial population less than 65 year of age. Our benchmark database represents predominately acommercial population less than 65 year of age. 21.2 Methods to identify statistically significant and practically/meaningfully differences in performance (type of analysis & rationale): During benchmark database and their claims data is processed through the software. The Medical Director reviews the results to verify that: Nedical Director reviews the rasults to verify that: 1. Providence rates for a condition are comparable to nationally published rates 2 2. Compliance rates for a measure are comparable to nationally published rates 2 2. Gompliance rates for a measure are comparable to nationally published rates 2 2. Gompliance rates for a condition are comparable sources are available, the rates are judged based on what is clinical consultant panel. 2 1. Baddition, all results are systematically reviewed for face validity by members of an external physician clinical consultant panel. 2 2.1. Data/sample (description of data/sample and size): 2 2 2.1. Data/sample (description of data/sample a	2e.1 Data/sample (description of data/sample and size): This measure does not include risk adjustment.		
2e.3 Testing Results (<i>risk model performance metrics</i>): P 2e.4 If outcome or resource use measure is not risk adjusted, provide rationale: NA 2f. Identification of Meaningful Differences in Performance[NA 2f.1 Data/sample from Testing or Current Use (<i>description of data/sample and size</i>): Our benchmark database represents predominately a commercial population less than 65 year of age. Image: Commercial population less than 65 year of age. 2f.2 Methods to identify statistically significant and practically/meaningfully differences in performance (<i>type of analysis & rationale</i>): Image: Commercial population are comparable to mationally published rates 2. Compliance rates for a condition are comparable to the rates reported in the published literature or by other national sources (e.g., HEDIS). If no comparable sources are available, the rates are judged based on what is clinically resonable. Image: Comparable to the rates reported in the published literature or by other national, SD, etc.; identification of statistically significant and meaningfully differences in performance; Summarized in 2b3 2g. Comparability of Multiple Data Sources/Methods Image: Comparability of Multiple Data Sources/Methods 2g. 1 Data/sample (<i>description of data/sample and size</i>): 2g 2g. 3 Testing Results (e.g., correlation statistics, comparison of rankings): NM NA NA 2h. 1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts): P P <td>2e.2 Analytic Method (type of risk adjustment, analysis, & rationale):</td> <td></td> <td></td>	2e.2 Analytic Method (type of risk adjustment, analysis, & rationale):		
2f. Identification of Meaningful Differences in Performance Image: Comparison of the example of	2e.3 Testing Results (risk model performance metrics):	C P M	````
2f.1 Data/sample from Testing or Current Use (description of data/sample and size): Our benchmark data sample includes a geographically diverse 15 million member benchmark database. The database represents predominately a commercial population less than 65 year of age. 2f.2 Methods to identify statistically significant and practically/meaningfully differences in performance (type of analysis & rationale): During benchmark testing, 15 million members are randomly selected from the large multi-payer benchmark database and their claims data is processed through the software. The Medical Director reviews the results to verify that: 1. Prevalence rates for a condition are comparable to nationally published rates 2. Compilance rates for a measure are comparable to the rates reported in the published literature or by other national sources (e.g. HEDIS). If no comparable sources are available, the rates are judged based on what is clinical resounds and their claims of the rate of a section of scores, e.g., distribution by performance); 2f.3 Provide Measure Scores from Testing or Current Use (description of scores, e.g., distribution by performance); Summarized in 2b3 2g. Comparability of Multiple Data Sources/Methods 2g.1 Data/sample (description of data/sample and size): 2g.2 Analytic Method (type of analysis & rationale): 2h. Disparities in Care[2h. Disparities in Care[2h. Disparities in Care[2h. If measure is stratified, provide stratified results (scores by stratified categories/cohorts): 2h. Disparities in Care[</td <td>2e.4 If outcome or resource use measure is not risk adjusted, provide rationale:</td> <td>NA</td> <td></td>	2e.4 If outcome or resource use measure is not risk adjusted, provide rationale:	NA	
data sample includes a geographically diverse 15 million member benchmark database. The database represents predominately a commercial population less than 65 year of age. 2f.2 Methods to identify statistically significant and practically/meaningfully differences in performance (type of analysis & rationale): During benchmark testing, 15 million members are randomly selected from the large multi-payer benchmark database and their claims data is processed through the software. The Medical Director reviews the results to verify that: 1. Prevalence rates for a condition are comparable to nationally published rates 2. Compliance rates for a condition are comparable to the rates reported in the published literature or by other national sources (e.g. HEDIS). If no comparable sources are available, the rates are judged based on what is clinically reviewed for face validity by members of an external physician clinical consultant panel. 2f. 3 Provide Measure Scores from Testing or Current Use (description of scores, e.g., distribution by purformance): 2f 2g. Comparability of Multiple Data Sources/Methods 2g 2g. 1 Data/sample (description of data/sample and size): 2g 2g. 3 Testing Results (e.g., correlation statistics, comparison of rankings): N	2f. Identification of Meaningful Differences in Performance		
(type of analysis & rationale): 2 During benchmark testing, 15 million members are randomly selected from the large multi-payer benchmark database and their claims data is processed through the software. The Medical Director reviews the results to verify that: 1 1. Prevalence rates for a condition are comparable to nationally published rates 2 2. Compliance rates for a measure are comparable to the rates reported in the published literature or by other national sources (e.g. HEDIS). If no comparable sources are available, the rates are judged based on what is clinically reasonable. 2f In addition, all results are systematically reviewed for face validity by members of an external physician clinical consultant panel. 2f 2f.3 Provide Measure Scores from Testing or Current Use (description of scores, e.g., distribution by guartile, mean, median, SD, etc.; identification of statistically significant and meaningfully differences in performance): 2f 2g. Comparability of Multiple Data Sources/Methods! 2g 2g.1 Data/sample (description of data/sample and size): 2g 2g.3 Testing Results (e.g., correlation statistics, comparison of rankings): N N N 2h. Disparities in Care! 2h 2h.1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts): P PL M N 2h.2 If disparities have been reported/identified, but measure is not	data sample includes a geographically diverse 15 million member benchmark database. The database		
During benchmark testing, 15 million members are randomly selected from the large multi-payer benchmark database and their claims data is processed through the software. The Medical Director reviews the results to verify that: Prevalence rates for a condition are comparable to nationally published rates Compliance rates for a measure are comparable to the rates reported in the published literature or by other national sources (e.g. HEDIS). If no comparable sources are available, the rates are judged based on what is clinically reasonable. In addition, all results are systematically reviewed for face validity by members of an external physician clinical consultant panel. 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): Summarized in 2b3 2g. Comparability of Multiple Data Sources/Methods 2g., 2 Analytic Method (type of analysis & rationale): 2g. 3 Testing Results (e.g., correlation statistics, comparison of rankings): NN NA 2h. Disparities in Care 2h. 1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts): P M NA NA		,	
clinical consultant panel. 2f 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 P P guartile, mean, median, SD, etc.; identification of statistically significant and meaningfully differences in N P 2g. Comparability of Multiple Data Sources/Methods 2g 2g.1 Data/sample (description of data/sample and size): 2g 2g.2 Analytic Method (type of analysis & rationale): P P P 2g.3 Testing Results (e.g., correlation statistics, comparison of rankings): N 2h.1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts): P P N 2h.2 If disparities have been reported/identified, but measure is not specified to detect disparities, provide follow-up plans: N TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Scientific Acceptability of Measure Properties? 2	During benchmark testing, 15 million members are randomly selected from the large multi-payer benchmark database and their claims data is processed through the software. The Medical Director reviews the results to verify that: 1. Prevalence rates for a condition are comparable to nationally published rates 2. Compliance rates for a measure are comparable to the rates reported in the published literature or by other national sources (e.g. HEDIS). If no comparable sources are available, the rates are judged based on	х, 	
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): C Summarized in 2b3 P 2g. Comparability of Multiple Data Sources/Methods 2 2g.1 Data/sample (description of data/sample and size): 2 2g.2 Analytic Method (type of analysis & rationale): C 2g.3 Testing Results (e.g., correlation statistics, comparison of rankings): N 2h. Disparities in Care 2h 2h.1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts): P PL M NL N 2h.2 If disparities have been reported/identified, but measure is not specified to detect disparities, provide follow-up plans: N NA N TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Scientific Acceptability of Measure Properties? 2			
2g.1 Data/sample (description of data/sample and size): 2g 2g.2 Analytic Method (type of analysis & rationale): P 2g.3 Testing Results (e.g., correlation statistics, comparison of rankings): N 2h. Disparities in Care 2h. 1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts): 2h. 2h.2 If disparities have been reported/identified, but measure is not specified to detect disparities, provide follow-up plans: M TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Scientific Acceptability of Measure Properties? 2	quartile, mean, median, SD, etc.; identification of statistically significant and meaningfully differences in performance):	C P M	
2g.2	2g. Comparability of Multiple Data Sources/Methods		
2g.2 Analytic Method (type of analysis & rationale): C 2g.3 Testing Results (e.g., correlation statistics, comparison of rankings): N 2h. Disparities in Care N 2h.1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts): 2h 2h.2 If disparities have been reported/identified, but measure is not specified to detect disparities, provide follow-up plans: M TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Scientific Acceptability of Measure Properties? 2	2g.1 Data/sample (description of data/sample and size):		
2g.3 Testing Results (e.g., correlation statistics, comparison of rankings): N 2h. Disparities in Care 2h 2h.1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts): 2h 2h.2 If disparities have been reported/identified, but measure is not specified to detect disparities, provide follow-up plans: M TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Scientific Acceptability of Measure Properties? 2	2g.2 Analytic Method (type of analysis & rationale):	C	
2h.1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts): 2h 2h.1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts): P 2h.2 If disparities have been reported/identified, but measure is not specified to detect disparities, provide follow-up plans: M TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Scientific Acceptability of Measure Properties? 2	2g.3 Testing Results (e.g., correlation statistics, comparison of rankings):	N	
2h.1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts): CP 2h.2 If disparities have been reported/identified, but measure is not specified to detect disparities, provide follow-up plans: MN	2h. Disparities in Care		
2h.2 If disparities have been reported/identified, but measure is not specified to detect disparities, provide follow-up plans: M TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Scientific Acceptability of Measure Properties? 2	2h.1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts):	C	
Acceptability of Measure Properties? 2			
Steering Committee: Overall, to what extent was the criterion, <i>Scientific Acceptability of Measure</i> 2			
	Steering Committee: Overall, to what extent was the criterion, Scientific Acceptability of Measure	2	

Comment [KP16]: 2e. For outcome measures and other measures (e.g., resource use) when indicated:

•an evidence-based risk-adjustment strategy (e.g., risk models, risk stratification) is specified and is based on patient clinical factors that influence the measured outcome (but not disparities in care) and are present at start of care, ^{Errort Bokmark not defined}. OR rationale/data support no risk adjustment.

Comment [k17]: 13 Risk models should not obscure disparities in care for populations by including factors that are associated with differences/inequalities in care such as race, socioeconomic status, gender (e.g., poorer treatment outcomes of African American men with prostate cancer, inequalities in treatment for CVD risk factors between men and women). It is preferable to stratify measures by race and socioeconomic status rather than adjusting out differences.

Comment [KP18]: 2f. Data analysis demonstrates that methods for scoring and analysis of the specified measure allow for identification of statistically significant and practically/clinically meaningful differences in performance.

Comment [k19]: 14 With large enough sample sizes, small differences that are statistically significant may or may not be practically or clinically meaningful. The substantive question may be, for example, whether a statistically significant difference of one percentage point in the percentage of patients who received smoking cessation counseling (e.g., 74% v. 75%) is clinically meaningful; or whether a statistically significant difference of \$25 in cost for an episode of care (e.g., \$5,000 v. \$5,025) is practically meaningful. Measures with overall poor performance may not demonstrate much variability across providers.

Comment [KP20]: 2g. If multiple data sources/methods are allowed, there is demonstration they produce comparable results.

Comment [KP21]: 2h. If disparities in care have been identified, measure specifications, scoring, and analysis allow for identification of disparities through stratification of results (e.g., by race, ethnicity, socioeconomic status, gender);OR rationale/data justifies why stratification is not necessary or not feasible.

NQF #ACI	P-036-10
Properties, met? Rationale:	C P M N
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)	Eval Rating
3a. Meaningful, Understandable, and Useful Information	
3a.1 Current Use: in use	
3a.2 Use in a public reporting initiative (disclosure of performance results to the public at large) (<i>If used in a public reporting initiative, provide name of initiative(s), locations, Web page URL(s). <u>If not publicly reported</u>, state the plans to achieve public reporting within 3 years): Health plans, physicians (individuals and groups), care management, and other vendors/customers are using this measure on a national level. However, we do not know if this specific measure is being used as part of a public reporting initiative.</i>	
3a.3 If used in other programs/initiatives (<i>If used in quality improvement or other programs/initiatives, name of initiative(s), locations, Web page URL(s).</i> <u>If not used for OI</u> , state the plans to achieve use for OI within 3 years): Health plans, physicians (individuals and groups), care management, and other vendors/customers use many of our measures on a national level for quality improvement, disease management, and physician sharing programs. Customers are able to select their measures depending on their business needs. As such,	
we do not know which specific measures are used by our customers. Testing of Interpretability (<i>Testing that demonstrates the results are understood by the potential users</i>	
for public reporting and quality improvement) 3a.4 Data/sample (description of data/sample and size): Results are summarized and reported by users/customers depending on their business need - we do not have access to this information. Because of us my multiple users/customers, there is no single data sample, methodology, or public reporting format.	
3a.5 Methods (e.g., focus group, survey, QI project):	3a C□
3a.6 Results (qualitative and/or quantitative results and conclusions):	P M N
3b/3c. Relation to other NQF-endorsed measures	
3b.1 NQF # and Title of similar or related measures: 0090: Electrocardiogram Performed for Non-Traumatic Chest Pain	
(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 <u>or</u> different topic but same target population): 3b.2 Are the measure specifications harmonized? If not, why? This measure is harmonized with the endorsed AMA PCPI measure. It uses the same age population, timeframe, and basic code sets. Our measure is enhanced using enriched claims data, as summarized	3b C P M N
below.	NA
3c. Distinctive or Additive Value 3c.1 Describe the distinctive, improved, or additive value this measure provides to existing NQF- endorsed measures:	3c C P
The AMA PCPI measure depends on the submission of CPT II codes for numerator inclusion and denominator exclusion. Our measure uses CPT II codes for numerator inclusion and denominator exclusion but, in	M N

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

Comment [KP22]: 3a. Demonstration that information produced by the measure is meaningful, understandable, and useful to the intended audience(s) for both public reporting (e.g., focus group, cognitive testing) and informing quality improvement (e.g., quality improvement initiatives). An important outcome that may not have an identified improvement strategy still can be useful for informing quality improvement by identifying the need for and stimulating new approaches to improvement.

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

Comment [k24]: 16 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 NQFendorsed measures (e.g., provides a more complete picture of quality for a particular condition or aspect of healthcare).

addition, uses CPT I and LOINC codes for numerator compliance. This dramatically increases the usability of this measure. 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: The submission of CPT II codes is extremely limited. This challenges the widespread usability and feasibility of the current AMA PCPI measure. Our measure enhances the current AMA PCPI measure by allowing CPT I and LOINC codes that identify ECG testing to satisfy numerator compliance. This source of enriched claims data dramatically increases the usability and feasibility of this measure. TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Usability? 3 Steering Committee: Overall, to what extent was the criterion, Usability, met? 3 Rationale: C P M N 4. FEASIBILITY Extent to which the required data are readily available, retrievable without undue burden, and can be Eval implemented for performance measurement. (evaluation criteria) Rating 4a. Data Generated as a Byproduct of Care Processes 4a 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, 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) 4b C____ P___ Yes 4b.2 If not, specify the near-term path to achieve electronic capture by most providers. M N 4c. Exclusions 4c C P 4c.1 Do the specified exclusions require additional data sources beyond what is required for the numerator and denominator specifications? M No 4c.2 If yes, provide justification. 4d. Susceptibility to Inaccuracies, Errors, or Unintended Consequences 4d C P 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. M_ N_ None anticipated

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: No modifications have been made based on testing or operational use of the measure.

our reasons have been made based on resting of operational use of the measure.

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

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).

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.) Comment [KP28]: 4b. The required data elements are available in electronic sources

Comment [KP27]: 4a. For clinical measures,

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.

Comment [KP29]: 4c. Exclusions should not require additional data sources beyond what is required for scoring the measure (e.g., numerator and denominator) unless justified as supporting measure validity.

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

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

C____ P___

M[

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	1
4e.2 Costs to implement the measure (costs of data collection, fees associated with proprietary measures):	
We do not have access to this information. This would vary based on the customer/vendor, patient population, and programs/interventions associated with measure use.	
4e.3 Evidence for costs:	
4e.4 Business case documentation:	
TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Feasibility?	4
Steering Committee: Overall, to what extent was the criterion, <i>Feasibility</i> , met? Rationale:	4 C□
	P M N
RECOMMENDATION	
(for NQF staff use) Check if measure is untested and only eligible for time-limited endorsement.	Time-
Steering Committee: Do you recommend for endorsement? Comments:	Y □ N □
comments.	
CONTACT INFORMATION	
Co.1 Measure Steward (Intellectual Property Owner)	
Co.1 <u>Organization</u> Ingenix 12125 Technology Drive Eden Prairie Minnesota 55344	
Co.2 <u>Point of Contact</u> Kay Schwebke, Medical Director kay.schwebke@ingenix.com 952-833-7154	
Measure Developer If different from Measure Steward	
Co.3 <u>Organization</u> Ingenix 12125 Technology Drive Eden Prairie Minnesota 55344	
Co.4 Point of Contact Kay Schwebke, Medical Director kay.schwebke@ingenix.com 952-833-7154	
Co.5 Submitter If different from Measure Steward POC Kay Schwebke, Medical Director kay.schwebke@ingenix.com 952-833-7154- Ingenix	
Co.6 Additional organizations that sponsored/participated in measure development This measure has been reviewed and supported by the American Academy of Family Physicians and the Ame College of Emergency Physicians.	rican
ADDITIONAL INFORMATION	
Workgroup/Expert Panel involved in measure development Ad.1 Provide a list of sponsoring organizations and workgroup/panel members' names and organizations Describe the members' role in measure development. We have an external consultant panel that participates in the original literature search process, measure development, code set review, testing review, and maintenance processes. Panel members include the follow	
NAME & Title Employer/Position Alexander, Beth Pharm D, BCPS Assistant Professor, Augsburg College Ayenew, Woubeshet, MD Hennepin Faculty Associates; Hennepin County	

Medical Center
Becker, Keith, MD Fairview Medical Center
Betcher, Susan, MD Allina Medical Clinic
Bruer, Paul, MD Comprehensive Ophthamology, LLC
Capecchi, Joseph, MD Allina Medical Clinic
Giesler, Janell, MD Allina Medical Clinic
Grabowski, Carol, MD Allina Medical Clinic
Hansen, Calvin, MD Iowa Health Physicians
Hargrove, Jody, MD Arthritis and Rheumatology Consultants
Hermann, Richard, MD Tufts - New England Medical Center
Jemming, Brian, Pharm D CentraCare Health System
Kohen, Jeffrey, MD Veterans Affairs Medical Center McCarthy, Teresa, MD University of Minnesota, Department of Family
Medicine & Community Health
McEvoy, Charlene, MD, MPH HealthPartners & HealthPartners Research
Foundation; Assistant Professor of Medicine,
University of Minnesota
McGee, Deanna, Pharm D, BCPS Retail Pharmacy
Ogle, Kathleen, MD Hennepin Faculty Associates; Hennepin County
Medical Center: Assistant Professor of
Medicine, University of Minnesota Medical School
Peter, Kathleen, MD Park Nicollet Medical Center
Pieper-Bigelow, Christina, MD Allina Medical Clinic
Redmon, Bruce, MD University of Minnesota Physicians
Scharpf, Steven, MD Mountain Valleys Health Centers
Weitz, Carol, MD Independent
Ad.2 If adapted, provide name of original measure:
Ad.3-5 If adapted, provide original specifications URL or attachment
Measure Developer/Steward Updates and Ongoing Maintenance
Ad.6 Year the measure was first released: 2008
Ad.7 Month and Year of most recent revision: 2007-12
Ad.8 What is your frequency for review/update of this measure? every three years at minimum Ad.9 When is the next scheduled review/update for this measure? 2010-04
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Date of Submission (MM/DD/YY): 02/15/2010

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:
o Intermediate outcome - evidence that the measured intermediate outcome (e.g., blood pressure, Hba1c)
leads to improved health/avoidance of harm or cost/benefit.
o 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

Karen Pace

10/5/2009 8:59:00 AM

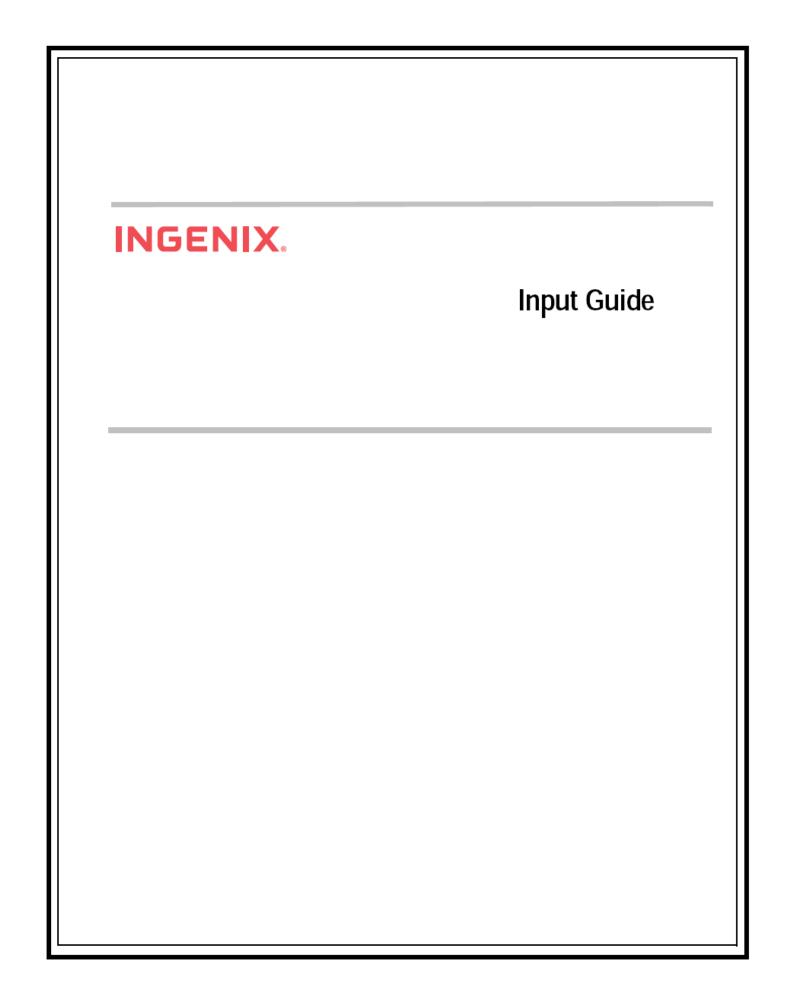
Page 3: [1] Comment [k4]

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).

- o <u>Structure</u> 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.
- o <u>Patient experience</u> evidence that an association exists between the measure of patient experience of health care and the outcomes, values and preferences of individuals/ the public.
- o <u>Access</u> evidence that an association exists between access to a health service and the outcomes of, or experience with, care.
- o <u>Efficiency</u> 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.

Page 3: [2] Comment [k5] Karen Pace	10/5/2009 8:59:00 AM
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4 Clinical care processes typically include multiple steps: assess \rightarrow identify problem/potential problem \rightarrow choose/plan intervention (with patient input) \rightarrow provide intervention \rightarrow evaluate impact on health status. If the measure focus is one step in such a multi-step process, the step with the greatest effect on the desired outcome should be selected as the focus of measurement. For example, although assessment of immunization status and recommending immunization are necessary steps, they are not sufficient to achieve the desired impact on health status - patients must be vaccinated to achieve immunity. This does not preclude consideration of measures of preventive screening interventions where there is a strong link with desired outcomes (e.g., mammography) or measures for multiple care processes that affect a single outcome.



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Release 7.0, Technical Guide for Windows, February 2008

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What Input Files to Prepare

The following list specifies what input files you prepare for processing:

- The claims data file (required)
- The member data file (required) ٠
- The member term data file (required)



Field Type Definitions and Input File Requirements

This chapter lists the field requirements for your input files. One of the attributes listed among the requirements is defined as "Type". There are four field types used to describe a field's value, and they are defined below.

Field Type	Definition
AlphaNum	A value made of letters and/or numbers. If a value of this type is made of numbers only, it will not be a value that can be operated on mathematically. For example, it would be inappropriate to subtract one procedure code from another procedure code even though both values may contain only numbers.
Num	A value made of numbers only, and which can logically be operated on mathematically. Age is an example of this type.
	One particular field, while not used in mathematical calculations, is defined in the EBM Connect software as such that it accepts only numeric values. (To enter a non-numeric value would cause EBM Connect processing to stop.) Therefore, this field is defined as Num. It is the Case ID field in the optional disease registry input file.
Date	A value which can be interpreted as a date value. Values should always use four-digit years but the format may vary otherwise.
DecNum	A value made of numbers and a decimal point. These values can also logically be operated on mathematically.

Claims Input File

The claims file contains detailed information on services that were billed or performed or otherwise rendered. The claims file includes:

- · Medical claims, including medical services, facility services and clinic services
- Pharmacy claims, including billed prescriptions and drugs
- · Lab claims, including lab test and results information

Field Name	Туре	Length	Required or Optional
Family ID	AlphaNum	1-30	Always required for all claims
Patient ID	AlphaNum	0-2	Optional
Amount Paid	DecNum	1-11	Required for all claims
Amount Allowed	DecNum	0-11	Required for all claims
Procedure Code	AlphaNum	5	Required if there is no revenue code, NDC, or LOINC® code
Procedure Code Modifier	AlphaNum	2	Required for medical claims
Revenue Code	AlphaNum	0 or 4	Optional (applies to medical claims when used)
First Diagnosis Code	AlphaNum	5 or 6	Required for medical claims
Second Diagnosis Code	AlphaNum	0, 5 or 6	Optional (applies to medical claims when used)
Third Diagnosis Code	AlphaNum	0, 5 or 6	Optional (applies to medical claims when used)
Fourth Diagnosis Code	AlphaNum	0, 5 or 6	Optional (applies to medical claims when used)
First Date of Service	Date	8 or 10	Always required for all claims
Last Date of Service	Date	8 or 10	Required for all claims

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Input Guide

Paid Date	Date	0, 8 or 10	Optional	
Type of Service	AlphaNum	0-10	Optional	
Provider ID	AlphaNum	1-20	Required for medical claims	
Ordering Provider ID	AlphaNum	0-20	Optional	
Provider Type	AlphaNum	1-10	Required for medical claims	
Provider Specialty Type	AlphaNum	1-10	Required for medical claims	
Provider Key	AlphaNum	1-20	Required for medical claims	
NDC	AlphaNum	0 or 11	Required for Rx claims	
Day Supply	Num	0-4	Required for Rx claims	
Quantity Count	DecNum	0-10	Required for Rx claims	
LOINC®	AlphaNum	0 or 7	Required for lab claims	
Lab Test Result	AlphaNum	0-18	Required for lab claims	
Place of Service	AlphaNum	1-10	Required for medical claims	
Unique Record ID	AlphaNum	1-28	Required for all claims	
Claim Number	AlphaNum	1-28	Required for all claims	
Bill Type Frequency Indicator	Num	0 or 1	Optional	
Patient Status	AlphaNum	1-2	Required for facility claims (involving admission or confinement).	
Facility Type	AlphaNum	0-2	Optional	
Bed Type	AlphaNum	0-1	Optional	
First ICD-9 Procedure Code	AlphaNum	0, 4 or 5	Optional, but will impact results (applies to medical claims when used)	
Second ICD-9 Procedure Code	AlphaNum	0, 4 or 5	Optional (see above)	
Third ICD-9 Procedure Code	AlphaNum	0, 4 or 5	Optional (see above)	
Fourth ICD-9 Procedure Code	AlphaNum	0, 4 or 5	Optional (see above)	

Field Descriptions

Instructions for each input field are as follows:

Family ID

This field identifies all members of a family and can be any alphanumeric string.

Note: Remember that each Family ID (and Patient ID) listed in your claims input file must have a corresponding record in your member input data file and your member term data file.



Patient ID

This field identifies individual members within a family. If present, this field must be sorted within Family ID, so that all records for an individual are contiguous. If the Family ID uniquely identifies an individual, this field need not be specified (that is, its length in the dictionary will be zero).

Amount Paid

The amount paid for this claim line.

Amount Allowed

The allowed amount for this claim line. This amount typically represents the total amount reimbursed including deductibles, copays, coinsurance, insurer paid, etc.

Procedure Code

The procedure code must be one of:

- A procedure code specified in the Physician's Current Procedure Terminology, 4th Edition (CPT[®]-4 codes) defined by the American Medical Association, for the years 1997 and later.
- A procedure code specified by the HCFA Common Procedure Coding System, Level II code (HCPCS) defined by the Centers for Medicare and Medicaid Services (CMS) for the years 1999 and later.
- A National Uniform Billing Committee (NUBC) revenue code.

Note: When the NUBC code is entered in the Procedure Code field, it should be padded to the right with blanks because the Procedure Code field always occupies five characters.

If your organization defines its own procedure codes and/or revenue codes, they must be mapped to standard procedure and revenue codes.

Procedure Code Modifier

Use this field to specify any procedure code modifier that accompanies the procedure code.

Revenue Code

The revenue code, if one was entered for the claim. Supported values in this field are NUBC revenue codes. If your organization defines its own revenue codes, they must be mapped to standard revenue codes.

The revenue code is an optional field, allowing you to define your input records so that you can place an NUBC revenue code and a CPT/HCPCS procedure code on a single record line.

For claim records that do not have a revenue code, leave the revenue code field blank.

INGENIX. Input Guide

First Diagnosis Code Through Fourth Diagnosis Code

Up to four diagnoses may be entered for each claim, but only the first is required.

If your organization defines its own diagnosis codes, they must be mapped to standard ICD-9 diagnosis codes.

First Date of Service and Last Date of Service

The first date and last date represented by the claim line. If you choose to use a date format with separators (such as YYYY/MM/DD or YYYY-MM-DD), the separators are ignored on input, so you can use any character as a separator. Valid formats include: YYYYMMDD, MMDDYYYY, DDMMYYYY, YYYY/MM/DD, MM/DD/ YYYY, and DD/MM/YYYY, where the separator can be any character.

Paid Date

This field is optional. This is the date the claim was paid. The format of the paid date must be the same as that used in the First and Last Date of Service.

Type of Service

This is an optional code which represents the type of service (TOS) performed for this claim. If no specific value is available for this field, it should be filled with blanks. If this field is not used (i.e., its length is set to zero in the configuration), non-pharmaceutical claims with no procedure code will be treated as ancillary records.

Provider ID

Provider identification number from the claim. Used to identify who performed the service.

Ordering Provider ID

This is an optional field. This is the identification number of the provider who ordered the service.

Provider Type

This code represents the type of provider who performed the service. Examples of provider types would be chiropractor, nurse practitioner, medical doctor, counselor, pharmacy, hospital or treatment facility.

Provider Specialty Type

This code represents the specialty of the provider who performed the service.

Provider Key

Unique number or code for a physician who has multiple provider IDs or specialties. A single health care provider may have multiple provider IDs in your input claims data, but this person or entity should have only one provider key.

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Input Guide

NDC

If this is a pharmaceutical claim, this field should contain the drug's NDC code. For nonpharmaceutical claim records, the NDC field should be filled with blanks.

Day Supply

For pharmacy records, the number of days a filled prescription is expected to last. If you have no pharmacy records, the Days Supply is an optional field.

Quantity Count

Quantity of drug dispensed in metric units:

Each - solid oral dosage forms (tablet, capsule), powder filled (dry) vials, packets, patches, units of use packages, suppositories, bars.

Milliliter - (cc) liquid oral dosage forms, liquid filled vials, ampules, reconstituted oral products.

Grams - ointments, bulk powders (not IV). If you have no pharmacy records, the Quantity Count is an optional field.

LOINC®

Logical Observation Identifiers Names and Codes (LOINC[®]). The LOINC Code is a universal identifier for a lab test for a particular analyte. The LOINC User's Guide and database can be found at www.regenstrief.org.

Enter a LOINC code if the record is a lab record. For non-lab records, leave the LOINC field blank.

If you have no lab records in your claims input, the LOINC code is optional.

Notes:

- (1) When using lab results data that has not been mapped to a LOINC code, map the comparable vendor-specific test number provided by the laboratory vendor(s) to one of these default codes.
- (2) This is a retired code which may be present on historical data, or which some laboratories may be continuing to use. Input record data with this code is included in the definition of this test.

Lab Test Result

If the record is a lab record, use this field to enter the result value of lab test. For nonlab records, this field should be blank.

If you have no lab records in your claims input, the Lab Test Result is optional.

Place of Service

Place of service (POS). You must map your internal POS codes to Centers for Medicare and Medicaid Services (CMS) standard POS codes.

Page 8 of 12

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Input Guide

Unique Record ID

This required field contains a unique identifier representing the service line from the claim. For medical services, this ID typically represents the service row from the CMS 1500 or CMS 1450/UB92 claim form.

Claim Number

A unique identifier used to link service lines for a specific claim submitted for a member. If a claim has multiple service lines, each service will have a unique record ID and the same claim number to represent the claim.

Bill Type Frequency Indicator

This optional field is used to indicate the disposition of confinements.

Patient Status

This field is required for facility claims. The contents will be the patient status indicator field from the NUBC UB-92 form. This field can denote whether the member died during a confinement.

Facility Type

This field is optional. Space for it is provided to allow for additional post grouping analysis. The contents will typically be the UB-92 facility type data value. This would allow records to be easily selected for diagnosis related grouping (DRG) based on the facility type.

Bed Type

If a value is present, this field acts as an additional discriminator in determining whether a Facility record extends an existing confinement or starts a new confinement.

First ICD-9 Procedure Code Through Fourth ICD-9 Procedure Code

If your claims have ICD-9 procedure codes, include them in your claims input file.

If a decimal point will appear in this field in your claim records, the length should be given as 5. If the decimal separator is not used, the length is 4. If these fields are unused, the length is zero.

INGENIX. Input Guide

Member Input File

The member data file contains the most current information about the member.

Field Descriptions

Field	Туре	Length	Required or Optional
Family ID	AlphaNum	1-30	Required
Patient ID	AlphaNum	0-2	Optional
Patient Gender	AlphaNum	1	Required
Date of Birth	Date	8 or 10	Required
Member Beginning Eligibility Date	Date	0, 8 or 10	Optional
Member Ending Eligibility Date	Date	0, 8 or 10	Optional

Instructions for each input field are as follows:

Family ID

This field identifies all members of a family and can be any alphanumeric string. The records in the member file must be sorted first on the Family ID (together with Patient ID, if available) so that all records for an individual are contiguous.

Patient ID

This field identifies individual members within a family. If present, this field must be sorted within Family ID, so that all records for an individual are contiguous. If the Family ID uniquely identifies an individual, this field need not be specified (that is, its length in the dictionary will be zero).

Patient Gender and Date of Birth

The member's gender (F or M) and date of birth. If you choose to use a date format with separators (such as YYYY/MM/DD or YYYY-MM-DD), the separators are ignored on input, so you can use any character as a separator. Valid date formats include: YYYYMMDD, MMDDYYYY, DDMMYYYY, YYYY/MM/DD, MM/DD/YYYY, and DD/MM/YYYY, where the separator can be any character.

Member Beginning Eligibility Date and Ending Eligibility Date

The first date on which the member became covered under the plan and the last date of the member's coverage. If you choose to use a date format with separators (such as YYYY/MM/DD or YYYY-MM-DD), the separators are ignored on input, so you can use any character as a separator. Valid formats include: YYYYMMDD, MMDDYYYY, DDMMYYYY, YYYY/MM/DD, MM/DD/YYYY, and DD/MM/YYYY, where the separator can be any character.

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Member Term Input File

The member term data file contains member coverage and term activity information. Plan coverage begin and end dates are required in order to correctly calculate the other fields in the member term file. There may be more than one record per individual member.

Field Descriptions

Field	Туре	Length	Required or Optional
Family ID	AlphaNum	1-30	Required
Patient ID	AlphaNum	0-2	Optional
Member Beginning Eligibility Date	Date	8 or 10	Required
Member Ending Eligibility Date	Date	8 or 10	Required
Primary Care Provider	AlphaNum	20	Required
Provider Specialty Type	AlphaNum	1-10	Required
Medical Flag	AlphaNum	1	Required
Pharmacy Flag	AlphaNum	1	Required

Instructions for each input field are as follows:

Family ID

This field identifies all members of a family and can be any alphanumeric string. The records in the member term file must be sorted first on the Family ID (together with Patient ID, if available) so that all records for an individual are contiguous.

Patient ID

This field identifies individual members within a family.

Member Beginning Eligibility Date and Member Ending Eligibility Date

The first date on which the member became covered under the plan and the last date of the member's coverage. If you choose to use a date format with separators (such as YYYY/MM/DD or YYYY-MM-DD), the separators are ignored on input, so you can use any character as a separator. Valid formats include: YYYYMMDD, MMDDYYYY, DDMMYYYY, YYYY/MM/DD, MM/DD/YYYY, and DD/MM/YYYY, where the separator can be any character.

Primary Care Provider

The provider key for the member's primary care physician. A single health care physician may have multiple provider IDs in your input claims data, but this person should have only one provider key.

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Input Guide

Provider Specialty Type

This code represents the specialty of the primary care physician.

Medical Flag

Identifies whether the member has medical coverage (Y or N).

Pharmacy Flag

Identifies whether the member has pharmacy coverage (Y or N).