NATIONAL QUALITY FORUM

Measure Submission and Evaluation Worksheet 5.0

This form contains the information submitted by measure developers/stewards, organized according to NQF's measure evaluation criteria and process. The evaluation criteria, evaluation guidance documents, and a blank online submission form are available on the <u>submitting standards web page</u>.

NQF #: 0393 NQF Project: Infectious Disease Project

(for Endorsement Maintenance Review)

Original Endorsement Date: Jul 31, 2008 Most Recent Endorsement Date: Jul 31, 2008 Last Updated Date: Nov 16, 2012

BRIEF MEASURE INFORMATION

De.1 Measure Title: Hepatitis C: Testing for Chronic Hepatitis C – Confirmation of Hepatitis C Viremia

Co.1.1 Measure Steward: American Medical Association - Physician Consortium for Performance Improvement (AMA-PCPI)

De.2 Brief Description of Measure: Percentage of patients aged 18 years and older with a diagnosis of hepatitis C seen for an initial evaluation who had HCV RNA testing ordered or previously performed

2a1.1 Numerator Statement: Patients for whom HCV RNA testing was ordered or previously performed

2a1.4 Denominator Statement: All patients aged 18 years and older with a diagnosis of hepatitis C seen for initial evaluation

2a1.8 Denominator Exclusions: Documentation of medical reason(s) for not ordering or performing HCV RNA testing

Documentation of patient reason(s) for not ordering or performing HCV RNA testing

1.1 Measure Type: Process

2a1. 25-26 Data Source: Electronic Clinical Data, Electronic Clinical Data : Electronic Health Record, Electronic Clinical Data : Laboratory, Electronic Clinical Data : Registry

2a1.33 Level of Analysis: Clinician : Group/Practice, Clinician : Individual, Clinician : Team

1.2-1.4 Is this measure paired with another measure? No

De.3 If included in a composite, please identify the composite measure (*title and NQF number if endorsed*):

STAFF NOTES (issues or questions regarding any criteria)

Comments on Conditions for Consideration:

Is the measure untested? Yes No If untested, explain how it meets criteria for consideration for time-limited endorsement:

1a. Specific national health goal/priority identified by DHHS or NPP addressed by the measure (*check De.5*):
5. Similar/related <u>endorsed</u> or submitted measures (*check 5.1*):
Other Criteria:

Staff Reviewer Name(s):

1. IMPACT, OPPORTUITY, EVIDENCE - IMPORTANCE TO MEASURE AND REPORT

Importance to Measure and Report is a threshold criterion that must be met in order to recommend a measure for endorsement. All three subcriteria must be met to pass this criterion. See <u>guidance on evidence</u>.

| 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: H M L I (The measure directly addresses a specific national health goal/priority identified by DHHS or NPP, or some other high impact aspect of healthcare.) | |
| De.4 Subject/Topic Areas (Check all the areas that apply): Infectious Diseases, Infectious Diseases : Hepatitis De.5 Cross Cutting Areas (Check all the areas that apply): | |
| 1a.1 Demonstrated High Impact Aspect of Healthcare: Affects large numbers, A leading cause of morbidity/mortality, Severi illness | ity of |
| 1a.2 If "Other," please describe: | |
| 1a.3 Summary of Evidence of High Impact (<i>Provide epidemiologic or resource use data</i>): The hepatitis C virus (HCV) is a major public health problem and a leading cause of chronic liver disease.(1) An estimated 180 million people are infected worldwide.(2) In the United States, the prevalence of HCV infection between the years 1999 and 200 was 1.6%, equating to about 4.1 million persons positive for antibody to hepatitis C (anti-HCV), 80% of whom are estimated to b viremic.(3) Hepatitis C is the principal cause of death from liver disease and the leading indication for liver transplantation in the U.S.(4) Some calculations suggest that mortality related to HCV infection (death from liver failure or hepatocellular carcinoma) will continue to increase over the next two decades.(5) | be |
| In a population-based study, 1.8% of a large household-based sample was positive for anti-HCV antibody (2.3% in adults 20 years or older), which translates into an estimated 3.9 million infected persons in the U.S. Of this population, 74% had viremia, which indicated chronic infection, or an estimated 2.7 million (6) | ars |
| 1a.4 Citations for Evidence of High Impact cited in 1a.3: (1) Williams R. Global challenges in liver disease. HEPATOLOGY 2006;44: 521-526. | |
| (2) www.who.int/immunization/topics/hepatitis_c/en/. | |
| (3) Armstrong GL, Wasley A, Simard EP, McQuillan GM, Kuhnert WL, Alter MJ. The prevalence of hepatitis C virus infection in t United States, 1999 through 2002. Ann Intern Med 2006;144:705-714. | the |
| (4) Kim WR. The burden of hepatitis C in the United States. HEPATOLOGY 2002;36(Suppl):S30-S34. | |
| (5) Deuffic-Burban S, Poynard T, Sulkowski MS, Wong JB. Estimating the future health burden of chronic hepatitis C and human immunodeficiency virus infections in the United States. J Viral Hepat 2007;14:107-115. | n |
| (6)Screening for Hepatitis C Virus Infection. Systematic Evidence Review Number 24. U.S. Department of Health and Human Services Agency for Healthcare Research and Quality. www.ahrq.gov. March 2004 | |
| 1b. Opportunity for Improvement: H M L I I (<i>There is a demonstrated performance gap - variability or overall less than optimal performance</i>) | |
| 1b.1 Briefly explain the benefits (improvements in quality) envisioned by use of this measure: A meta-analysis of 31 studies found a consistent overall estimate of 15 to 20 percent of people who become infected with acute Hepatitis C will clear the virus. The absence of confirmatory viral testing may then leave these 15 to 20 percent of patients with mistaken belief that they have chronic Hepatitis C, subjecting these patients to unnecessary anxiety and other harms. The remaining viral positive patients could benefit from the additional counseling for their own and for transmission risk, as mentione SC members, namely avoiding alcohol, getting vaccinated, and providing counseling regarding transmission and remaining engaged in care. Thus, this test is critically important in differentiating whether or not people have resolved infection or are currently infected with HCV, regardless of whether antiviral treatment is contemplated. | the |

1b.2 Summary of Data Demonstrating Performance Gap (Variation or overall less than optimal performance across providers): [For <u>Maintenance</u> – Descriptive statistics for performance results <u>for this measure</u> - distribution of scores for measured entities by quartile/decile, mean, median, SD, min, max, etc.]

Evidence provided by the CDC, Boston Medical Center and the Cleveland VA Medical Center below shows that a substantial performance gap exists for this measure, illustrating that in practice, confirmatory testing after initial HCV antibody testing is NOT being done often enough to constitute "Standard of Care." Of 20,285 reports of HCV infection received by CDC from state/local surveillance programs in 2006-2007, a total of 10,834 (47.6%) reports had no positive result for HCV RNA.(1) CDC recently reviewed electronic health records of >1,652,055 adult patients seen from January 2006 through December 2010 at 4 integrated healthcare systems in Detroit, Michigan; Danville, Pennsylvania; Portland, Oregon; and Honolulu, Hawaii. Of 9,086 patients with a positive HCV antibody test, 3,428 (37.7%) had no documented follow-up HCV RNA testing in the electronic database.(2) A study conducted at Boston Medical Center of CMS-defined HCV quality indicators, comparing data from 2005-2007 to 2008-2011, revealed a decline in the confirmation of HCV viremia from 73% to 63%.(3)

Members of the Department of Medicine at Louis Stokes Cleveland Department of Veterans Affairs Medical Center in Cleveland, OH found similar rates of testing in their study and included additional information in their conclusions related to implications. They looked at ~400 people who lacked HCV nucleic acid amplification technology (NAT) testing to characterize behaviors in response to patients who have a positive HCV antibody (ab) test but lack viral confirmatory testing. Below are their findings:

1. Thirty one percent of patients with a positive HCV ab test, never had that result acknowledged by a medical provider (HCV ordering or other provider), resulting in missed opportunities for follow-up liver care and Hepatitis C treatment.(4)

2. In 251 instances, the positive HCV ab test was acknowledged by the ordering provider, and despite the lack of viral NAT, these providers took actions that indicated they believed patients had chronic Hepatitis C.(4) These actions included addition of the ICD-9 diagnosis for chronic Hepatitis C to the patient's problem list, ordering serial liver function tests, ordering HAV/HBV vaccinations, etc. Interestingly, very few providers ordered confirmatory NAT in response to the positive HCV ab.

3. In the cases where HCV was entered into the patient's problem list in the EMR, this unconfirmed diagnosis was "perpetuated" by future medical providers that the patient saw in 85% of instances.(4)

While this data is not randomized, nor does it contain a control group, it highlights some of the misconceptions about HCV diagnosis amongst general medical providers and mental health providers that may order HCV ab tests as part of their practices. Unconfirmed diagnoses of HCV can lead to stigmatization, receipt of unnecessary medical interventions, and avoidance of important medical interventions (e.g., statin use). This may be even more impactful as the CDC's birth cohort screening recommendations trigger more screening.

1b.3 Citations for Data on Performance Gap: [For <u>Maintenance</u> – Description of the data or sample for measure results reported in 1b.2 including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included] (1) Speers S, Klevens RM, Vonderwahl C, Bryant T, Daniloff E, Capizzi J, Poissant T, Roome A. Electronic matching of HIV/AIDS and hepatitis C surveillance registries in three states. Public Health Rep. 2011 May-Jun;126(3):344-8.

(2)Moorman AC, Gordon SC, Rupp et al. Baseline Characteristics and Mortality Among People in Care for Chronic Viral Hepatitis: The Chronic Hepatitis Cohort Study. Clin Infect Dis. 2012 Oct 19. [Epub ahead of print].

(3)Sabrina A. Assoumou MD, Wei Huang MA, Benjamin P. Linas, MD MPH. [Poor] Quality of Hepatitis C care at an urban tertiary medical center. Study conducted at Boston Medical Center. Outcomes: Centers for Medicare & Medicaid (CMS)-defined HCV quality indicators introduced in 2008: HCV RNA testing, Genotype testing, Hep A & Hep B vaccinations. Poster presentation from the Infectious Diseases Society of America (IDSA) meeting, 2012.

(4) Yang Liu, BA, Renee H. Lawrence, PhD, Brook Watts, MD, Yngve Falck-Ytter, MD, Amy Hirsch, PharmD. Understanding the Care Gap and Missed Opportunities for Hepatitis C Confirmatory Viral testing. Poster presentation from the Society of General Interal Medicine (SGIM) meeting, 2012.

1b.4 Summary of Data on Disparities by Population Group: [For Maintenance – Descriptive statistics for performance results for this measure by population group] Although the continued prevalence of HCV is problematic in communities across America, inequalities in disease prevalence, treatment, and outcomes make it a particularly important minority health issue.(1) First, there are disparities in the prevalence of HCV infection, with African Americans being twice as likely to have ever been infected with HCV, and having a higher prevalence of chronic HCV infection compared with non-Hispanic white Americans.(2) Additionally, there are significant disparities in access to HCV care for racial and ethnic minorities.(3) Finally, African American and Hispanic patients with HCV infection, even once properly diagnosed, have less desirable treatment outcomes compared to white patients.(4) These trends are indicative of a growing healthcare crisis with regards to HCV that threatens minority communities for decades to come.(1) 1b.5 Citations for Data on Disparities Cited in 1b.4: [For Maintenance – Description of the data or sample for measure results reported in 1b.4 including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included (1) Bryant Cameron Webb. The "Secret" epidemic: Disparities in Hepatitis C Incidence, Treatment, and Outcomes. Prepared for the Joint Center for Political and Economic Studies. October 2010. (2) Alter MJ, Kruszon-Moran D, Nainan OV, et al. The prevalence of hepatitis C virus infection in the United States, 1988 through 1994. New England Journal of Medicine. 1999:341(8): 556-562. (3) Trooskin SB, Navarro VJ, Winn RJ, et al. Hepatitis C risk assessment, testing and referral for treatment in urban primary care: Role of race and ethnicity. World J Gastro 2007:13:1074. (4) Conjeevaram HS, Fried MW, Jeffers LJ, et al. Virahep-C study group. Peginterferon and ribavirin treatment in African American and Caucasian American patients with hepatitis C genotype 1. Gastroenterology. 2006 Aug; 131(2):470-7. 1c. Evidence (Measure focus is a health outcome OR meets the criteria for quantity, quality, consistency of the body of evidence.) If not a health outcome, rate the body of evidence. Is the measure focus a health outcome? Yes No Quantity: H M L I Quality: H M L I Consistency: H M L I Quantity Quality Consistency Does the measure pass subcriterion1c? M-H M-H M-H Yes L M-H Μ Yes IF additional research unlikely to change conclusion that benefits to patients outweigh harms: otherwise No M-H L M-H Yes IF potential benefits to patients clearly outweigh potential harms: otherwise No L-M-H L-M-H L No 🗌 Health outcome – rationale supports relationship to at least Does the measure pass subcriterion1c? one healthcare structure, process, intervention, or service Yes IF rationale supports relationship 1c.1 Structure-Process-Outcome Relationship (Briefly state the measure focus, e.g., health outcome, intermediate clinical outcome, process, structure; then identify the appropriate links, e.g., structure-process-health outcome; process- health outcome; intermediate clinical outcome-health outcome): A meta-analysis of 31 studies found a consistent overall estimate of 15 to 20 percent of people who become infected with acute Hepatitis C will clear the virus. The absence of confirmatory viral testing may then leave these 15 to 20 percent of patients with the mistaken belief that they have chronic Hepatitis C, subjecting these patients to unnecessary anxiety and other harms. The remaining viral positive patients could benefit from the additional counseling for their own and for transmission risk, as mentioned by SC members, namely avoiding alcohol, getting vaccinated, and providing counseling regarding transmission and remaining engaged in care. Thus, this test is critically important in differentiating whether or not people have resolved infection or are currently infected with HCV, regardless of whether antiviral treatment is contemplated.

1c.2-3 Type of Evidence (Check all that apply): Clinical Practice Guideline

1c.4 Directness of Evidence to the Specified Measure (State the central topic, population, and outcomes addressed in the body of evidence and identify any differences from the measure focus and measure target population): According to the guideline, specific recommendations are based on relevant published information. The evidence cited in this guideline is directly related to the HCV RNA testing needed to establish and confirm diagnosis of chronic hepatitis C.

1c.5 Quantity of Studies in the Body of Evidence (*Total number of studies, not articles*): The guideline developer did not state the quantity of studies used.

1c.6 Quality of Body of Evidence (Summarize the certainty or confidence in the estimates of benefits and harms to patients across studies in the body of evidence resulting from study factors. Please address: a) study design/flaws; b) directness/indirectness of the evidence to this measure (e.g., interventions, comparisons, outcomes assessed, population included in the evidence); and c) imprecision/wide confidence intervals due to few patients or events): While the quality of the body of evidence is not addressed, the guideline developer stated: "These recommendations provide a data-supported approach to establishing guidelines. They are based on the following: (1) a formal review and analysis of the recently published world literature on the topic (Medline search up to September 2008); (2) the American College of Physicians' Manual for Assessing Health Practices and Designing Practice Guidelines; (3) guideline policies, including the American Association for the Study of Liver Diseases' (AASLD) Policy on the Development and Use of Practice Guidelines and the American Gastroenterological Association's Policy Statement on the Use ofMedical Practice Guidelines; and (4) the experience of the authors in regard to hepatitis C." (AASLD 2009)

In addition, Class IB and Class IA recommendations reflect Class I-Conditions for which there is evidence and/or general agreement that a given diagnostic evaluation procedure or treatment is beneficial, useful, and effective; and Level A-Data derived from multiple randomized clinical trials or meta-analyses and Level B-Data derived from a single randomized trial, or nonrandomized studies. (AASLD 2009)

1c.7 Consistency of Results across Studies (Summarize the consistency of the magnitude and direction of the effect): The consistency of results across studies was not addressed by the guideline.

1c.8 Net Benefit (Provide estimates of effect for benefit/outcome; identify harms addressed and estimates of effect; and net benefit - benefit over harms):

The benefit over harms across studies was not addressed by the guideline.

1c.9 Grading of Strength/Quality of the Body of Evidence. Has the body of evidence been graded? No

1c.10 If body of evidence graded, identify the entity that graded the evidence including balance of representation and any disclosures regarding bias: n/a

1c.11 System Used for Grading the Body of Evidence: Other

1c.12 If other, identify and describe the grading scale with definitions: n/a

1c.13 Grade Assigned to the Body of Evidence: n/a

1c.14 Summary of Controversy/Contradictory Evidence: A summary of controversy/contradictory evidence was not provided.

1c.15 Citations for Evidence other than Guidelines (Guidelines addressed below): n/a

1c.16 Quote verbatim, the specific guideline recommendation (Including guideline # and/or page #): HCV ribonucleic acid (RNA) testing should be performed in: a. patients with a positive anti-HCV test (Class 1B) patients for whom antiviral treatment is being considered, using a sensitive quantitative assay (Class 1A) b. С. patients with unexplained liver disease whose anti-HCV test is negative and who are immunocompromised or suspected of having acute HCV infection (Class 1B) (AASLD 2009-Recommendation 5) 1c.17 Clinical Practice Guideline Citation: Marc G. Ghany, Doris B. Strader, David L. Thomas, and Leonard B. Seeff. American Association for the Study of Liver Diseases' (AASLD) Practice Guidelines: Diagnosis, Management, and Treatment of Hepatitis C: An Update. Hepatology, April 2009: 1335-1374. 1c.18 National Guideline Clearinghouse or other URL: http://guideline.gov/content.aspx?id=14708 1c.19 Grading of Strength of Guideline Recommendation. Has the recommendation been graded? Yes 1c.20 If guideline recommendation graded, identify the entity that graded the evidence including balance of representation and any disclosures regarding bias: The Practice Guidelines Committee of the AASLD. Potential conflict of interest: Drs. Marc Ghany, Leonard Seeff, and Doris Strader have no financial relationships to declare. Dr. David Thomas was on the Advisory Board of Merck, Sharpe and Dohme at the time of writing but has since resigned from this position. 1c.21 System Used for Grading the Strength of Guideline Recommendation: Other 1c.22 If other, identify and describe the grading scale with definitions: Classification Description Class I Conditions for which there is evidence and/or general agreement that a given diagnostic evaluation procedure or treatment is beneficial, useful, and effective. Class II Conditions for which there is conflicting evidence and/or a divergence of opinion about the usefulness/efficacy of a diagnostic evaluation, procedure or treatment. Class IIa Weight of evidence/opinion is in favor of usefulness/efficacy. Class IIb Usefulness/efficacy is less well established by evidence/opinion. Class III Conditions for which there is evidence and/or general agreement that a diagnostic evaluation, procedure/treatment is not useful/effective and in some cases may be harmful. Level of Evidence Description Data derived from multiple randomized clinical trials or meta-analyses. Level A 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. NOTE: To more fully characterize the quality of evidence supporting recommendations, the Practice Guidelines Committee of the AASLD requires a Class (reflecting benefit versus risk) and Level (assessing strength or certainty) of Evidence to be assigned and reported with each recommendation (Table 1, adapted from the American College of Cardiology and the American Heart association Practice Guidelines). 1c.23 Grade Assigned to the Recommendation: Class IB and Class IA 1c.24 Rationale for Using this Guideline Over Others: It is the PCPI policy to use guidelines, which are evidence-based, applicable to physicians and other health-care providers, and developed by a national specialty organization or government agency. In addition, the PCPI has now expanded what is acceptable as the evidence base for measures to include documented quality improvement (QI) initiatives or implementation projects that have demonstrated improvement in quality of care. Based on the NQF descriptions for rating the evidence, what was the <u>developer's assessment</u> of the quantity, quality, and consistency of the body of evidence?

1c.25 Quantity: Moderate 1c.26 Quality: Moderate1c.27 Consistency: Moderate

1c.28 Attach evidence submission form:

1c.29 Attach appendix for supplemental materials:

Was the threshold criterion, *Importance to Measure and Report*, met? (*1a & 1b must be rated moderate or high and 1c yes*) Yes No Provide rationale based on specific subcriteria:

For a new measure if the Committee votes NO, then STOP. For a measure undergoing endorsement maintenance, if the Committee votes NO because of 1b. (no opportunity for improvement), it may be considered for continued endorsement and all criteria need to be evaluated.

2. RELIABILITY & VALIDITY - 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)

Measure testing must demonstrate adequate reliability and validity in order to be recommended for endorsement. Testing may be conducted for data elements and/or the computed measure score. Testing information and results should be entered in the appropriate field. Supplemental materials may be referenced or attached in item 2.1. See <u>guidance on measure testing</u>.

S.1 Measure Web Page (In the future, NQF will require measure stewards to provide a URL link to a web page where current detailed specifications can be obtained). Do you have a web page where current detailed specifications for this measure can be obtained? Yes

S.2 If yes, provide web page URL: www.physicianconsortium.org

2a. RELIABILITY. Precise Specifications and Reliability Testing: H M L I

2a1. Precise Measure Specifications. (The measure specifications precise and unambiguous.)

2a1.1 Numerator Statement (Brief, narrative description of the measure focus or what is being measured about the target population, e.g., cases from the target population with the target process, condition, event, or outcome): Patients for whom HCV RNA testing was ordered or previously performed

2a1.2 Numerator Time Window (The time period in which the target process, condition, event, or outcome is eligible for inclusion): Once, at time of diagnosis

2a1.3 Numerator Details (All information required to identify and calculate the cases from the target population with the target process, condition, event, or outcome such as definitions, codes with descriptors, and/or specific data collection items/responses: EHR Specifications:

eSpecifications attached

2a1.4 **Denominator Statement** (*Brief, narrative description of the target population being measured*): All patients aged 18 years and older with a diagnosis of hepatitis C seen for initial evaluation

2a1.5 Target Population Category (Check all the populations for which the measure is specified and tested if any): Adult/Elderly Care

2a1.6 **Denominator Time Window** (*The time period in which cases are eligible for inclusion*): 12 consecutive months

2a1.7 **Denominator Details** (*All information required to identify and calculate the target population/denominator such as definitions, codes with descriptors, and/or specific data collection items/responses*): There are two ways the denominator may be captured: (1) for new patients and (2) for established/consult patients. This allows for

There are two ways the denominator may be captured: (1) for new patients and (2) for established/consult patients. This allows for all physicians who see a patient for an initial evaluation for Hepatitis C to utilize the measure.

EHR Specifications: eSpecifications attached

2a1.8 **Denominator Exclusions** (Brief narrative description of exclusions from the target population): Documentation of medical reason(s) for not ordering or performing HCV RNA testing

Documentation of patient reason(s) for not ordering or performing HCV RNA testing

2a1.9 Denominator Exclusion Details (All information required to identify and calculate exclusions from the denominator such as definitions, codes with descriptors, and/or specific data collection items/responses):

The PCPI exception methodology uses three categories of reasons for which a patient may be removed from the denominator of an individual measure. These measure exception categories are not uniformly relevant across all measures; for each measure, there must be a clear rationale to permit an exception for a medical, patient, or system reason. Examples are sometimes provided in the measure exception language of instances that may constitute an exception and are intended to serve as a guide to clinicians. For this measure, exceptions may include medical reason(s) and patient reason(s) for not ordering or performing HCV RNA testing. Where examples of exceptions are included in the measure language, value sets for these examples are developed and included in the eSpecifications. Although this methodology does not require the external reporting of more detailed exception data, the PCPI recommends that physicians document the specific reasons for exception in patients' medical records for purposes of optimal patient management and audit-readiness. The PCPI also advocates the systematic review and analysis of each physician's exceptions data to identify practice patterns and opportunities for quality improvement. Additional details by data source are as follows:

EHR Specifications: eSpecifications attached

2a1.10 Stratification Details/Variables (All information required to stratify the measure results including the stratification variables, codes with descriptors, definitions, and/or specific data collection items/responses): We encourage the results of this measure to be stratified by race, ethnicity, gender, and primary language, and have included these variables as recommended data elements to be collected.

2a1.11 **Risk Adjustment Type** (Select type. Provide specifications for risk stratification in 2a1.10 and for statistical model in 2a1.13): No risk adjustment or risk stratification 2a1.12 **If** "Other," please describe:

2a1.13 Statistical Risk Model and Variables (Name the statistical method - e.g., logistic regression and list all the risk factor variables. Note - risk model development should be addressed in 2b4.): None

2a1.14-16 Detailed Risk Model Available at Web page URL (or attachment). Include coefficients, equations, codes with descriptors, definitions, and/or specific data collection items/responses. Attach documents only if they are not available on a webpage and keep attached file to 5 MB or less. NQF strongly prefers you make documents available at a Web page URL. Please supply login/password if needed:

2a1.17-18. Type of Score: Rate/proportion

2a1.19 Interpretation of Score (Classifies interpretation of score according to whether better quality is associated with a higher score, a lower score, a score falling within a defined interval, or a passing score): Better quality = Higher score

2a1.20 Calculation Algorithm/Measure Logic (Describe the calculation of the measure score as an ordered sequence of steps

including identifying the target population; exclusions; cases meeting the target process, condition, event, or outcome; aggregating data; risk adjustment; etc.):

To calculate performance rates:

1) Find the patients who meet the initial patient population (ie, the general group of patients that a set of performance measures is designed to address).

2) From the patients within the initial patient population criteria, find the patients who qualify for the denominator (ie, the specific group of patients for inclusion in a specific performance measure based on defined criteria). Note: in some cases the initial patient population and denominator are identical.

3) From the patients within the denominator, find the patients who qualify for the Numerator (ie, the group of patients in the denominator for whom a process or outcome of care occurs). Validate that the number of patients in the numerator is less than or equal to the number of patients in the denominator

4) From the patients who did not meet the numerator criteria, determine if the physician has documented that the patient meets any criteria for denominator when exceptions have been specified [for this measure: medical reason(s) patient reason(s)]. If the patient meets any exception criteria, they should be removed from the denominator for performance calculation. --Although the exception cases are removed from the denominator population for the performance calculation, the exception rate (ie, percentage with valid exceptions) should be calculated and reported along with performance rates to track variations in care and highlight possible areas of focus for QI.

If the patient does not meet the numerator and a valid exception is not present, this case represents a quality failure.

Calculation algorithm is included in data dictionary/code table attachment 2a1.30.

2a1.21-23 Calculation Algorithm/Measure Logic Diagram URL or attachment:

2a1.24 **Sampling (Survey) Methodology**. If measure is based on a sample (or survey), provide instructions for obtaining the sample, conducting the survey and guidance on minimum sample size (response rate): Not applicable. The measure does not require sampling or a survey.

2a1.25 Data Source (Check all the sources for which the measure is specified and tested). If other, please describe: Electronic Clinical Data, Electronic Clinical Data : Electronic Health Record, Electronic Clinical Data : Laboratory, Electronic Clinical Data : Registry

2a1.26 Data Source/Data Collection Instrument (Identify the specific data source/data collection instrument, e.g. name of database, clinical registry, collection instrument, etc.): Not Applicable

2a1.27-29 Data Source/data Collection Instrument Reference Web Page URL or Attachment:

2a1.30-32 Data Dictionary/Code Table Web Page URL or Attachment: Attachment AMA-PCPI_0393_Confirmation_HepC_Viremia_7.11.12.pdf

2a1.33 Level of Analysis (*Check the levels of analysis for which the measure is specified and tested*): Clinician : Group/Practice, Clinician : Individual, Clinician : Team

2a1.34-35 Care Setting (Check all the settings for which the measure is specified and tested): Ambulatory Care : Clinician Office/Clinic, Ambulatory Care : Urgent Care, Other:Hospital Outpatient Clinic

2a2. Reliability Testing. (Reliability testing was conducted with appropriate method, scope, and adequate demonstration of reliability.) 2a2.1 Data/Sample (Description of the data or sample including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included): Refer to the validity section for a description of the data sample for our EHR testing project. 2a2.2 Analytic Method (Describe method of reliability testing & rationale): Refer to the validity section for a description of the analytic methods for our EHR testing project. 2a2.3 Testing Results (Reliability statistics, assessment of adequacy in the context of norms for the test conducted): Refer to the validity section for a description of the testing results for our EHR testing project. 2b. VALIDITY. Validity, Testing, including all Threats to Validity: H M L I 2b1.1 Describe how the measure specifications (measure focus, target population, and exclusions) are consistent with the evidence cited in support of the measure focus (*criterion 1c*) and identify any differences from the evidence: The measure specifications are consistent with the evidence from the guideline. 2b2. Validity Testing. (Validity testing was conducted with appropriate method, scope, and adequate demonstration of validity.) 2b2.1 Data/Sample (Description of the data or sample including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included): **EHR Measure Validity** The measure performance was calculated from data collected using two different methods of collection: Automated EHR report Visual inspection of the medical record by professional data abstractors to capture the data elements to manually construct the performance The data source was electronic health records in the ambulatory care setting. The data sample came from 2 sites representing a community health center and a large independent specialty practice, both in the Midwest region. The sample consisted of 1144 patient encounters. Visual inspection of the medical record was performed in 2010. **Face Validity** An expert panel was used to assess face validity of the measure. This panel consists of 22 members, with representation from the following specialties: infectious diseases, gastroenterology, methodology, hepatology, family medicine, OB/GYN, internal medicine, nursing, health plan representation and patient advocacy. Oluwatoyin Adeyemi, MD (infectious diseases) Cook County Hospital, Rush University Medical Center, Chicago, IL Maureen L. Borkowski, RN, BSN Information Specialist, American Liver Foundation, Cedar Grove, NJ Joel V. Brill, MD (gastroenterology) American Gastroenterological Association, Phoenix, AZ Betty Jo Edwards, MD (OB/GYN) Texas Medical Arts Tower, Houston, TX Debra Esser, MD, MMM (family medicine) Omaha, NE Gregory T. Everson, MD (gastroenterology) University of Colorado Denver, Section of Hepatology, Aurora, CO Troy Fiesinger, MD, FAAFP (family medicine) Memorial Family Medicine Residency, Physicians at Sugar Creek, Sugar Land, TX Michael W. Fried, MD (gastroenterology, hepatology) Professor of Medicine, Director, UNC Liver Center, University of North Carolina @ Chapel Hill, Chapel Hill, NC Stephen A. Harrison, MD (gastroenterology) Assistant Professor, Division of Gastroenterology, Brooke Army Medical Center, Fort Sam Houston, TX Ira Jacobson, MD (gastroenterology, hepatology) Chief, Division of GI & Hepatology, Weill Medical College of Cornell, New York, NY Catherine MacLean, MD, PhD (health plan representative) Medical Director, Programs for Clinical Excellence WellPoint, Inc.,

Westlake Village, CA

Lynn McElroy American Liver Foundation, Cedar Grove, NJ

Paola Ricci, MD (gastroenterology) VA Medical Center-Gastroenterology, Minneapolis, MN

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Monte Troutman, DO, FACOI (gastroenterology) Chairman, Department of Medicine, Chief, Division of Gastroenterology, University of North Texas Health Science Center/ Texas College of Osteopathic Medicine, Fort Worth, TX

John Ward, MD (internal medicine) Director, Division of Viral Hepatitis, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention (proposed), Centers for Disease Control and Prevention, Atlanta, GA

Josie R. Williams, MD, MMM (gastroenterology/methodology) Director, Rural & Community Health Institute: QPSI, Asst. Professor of Internal & Family Medicine, Texas A&M University System, College Station, TX

John B. Wong, MD (gastroenterology, hepatology) Tufts New England Medical Center, Clinical Decision Making, Boston, MA

2b2.2 Analytic Method (Describe method of validity testing and rationale; if face validity, describe systematic assessment): EHR MEASURE VALIDITY

Data from a performance report for the measure automatically-generated from the EHR (designed to collect the necessary data elements to identify eligible cases and calculate the performance score) were compared to data elements found and scores calculated manually on visual inspection of the medical record by trained abstractors.

Data analysis included:

Adjusted performance comparison

o The number of patients with a valid numerator and the number of patients with a valid exception from the sample who appeared to fail the measures (i.e. false negatives).

Kappa statistic to adjust for chance agreement

Face Validity

Face validity of the measure score as an indicator of quality was systematically assessed as follows.

After the measure was fully specified, the expert panel (workgroup membership) was asked to rate their agreement with the following statement:

The scores obtained from the measure as specified will provide an accurate reflection of quality and can be used to distinguish good and poor quality.

Scale 1-5, where 1= Strongly Disagree; 3= Neither Agree nor Disagree; 5= Strongly Agree

2b2.3 Testing Results (Statistical results, assessment of adequacy in the context of norms for the test conducted; if face validity, describe results of systematic assessment):

EHR MEASURE VALIDITY

This measure demonstrated substantial agreement when comparing EHR automated report to visual inspection of the medical record.

• The automated report showed 56.6 % performance for this measure. After manual abstraction this changed to 64.9%. This was primarily due to patients who were found to meet the numerator upon manual review of the patient record. This measure is highly reliable and rarely found to be inaccurate upon manual review. One potential reason for the high reliability is that this measure is laboratory-based. The test either was or was not performed, either of which is straightforward to determine by automated calculation.

Reliability: N, Kappa Statistic (95% Cl) 66, 0.65 (0.448, 0.948)

The reliability rates (kappa statistic) between the automated calculation of performance in the EHR and the manual review of the patient medical records.

Face Validity

The results of the Expert Panel rating of the validity statement were as follows: N=13; Mean rating=4.92 and 100.00% of respondents either agree or strongly agree that this measure can accurately distinguish good and poor quality.

The results of the Expert Panel rating of the validity statement were as follows:

Frequency Distribution of Ratings

- 0 (Strongly Disagree) 1-
- 2-0
- 3-0 (Neither Disagree nor Agree) 1
- 4-
- 5-12 (Strongly Agree)

Face Validity

The results of the expert panel rating of the validity statement were as follows: N = 13; Mean rating = 4.92 and 100.00% of respondents either agree or strongly agree that this measure can accurately distinguish good and poor guality

The results of the expert panel rating of the validity statement were as follows:

Frequency Distribution of Ratings

1 - 0 (Strongly Disagree)

- 2 0
- 3 0 (Neither Disagree nor Agree)
- 4 1

5 - 12 (Strongly Agree)

POTENTIAL THREATS TO VALIDITY. (All potential threats to validity were appropriately tested with adequate results.)

2b3. Measure Exclusions. (Exclusions were supported by the clinical evidence in 1c or appropriately tested with results demonstrating the need to specify them.)

2b3.1 Data/Sample for analysis of exclusions (Description of the data or sample including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included):

EHR Measure Validity

The measure performance was calculated from data collected using two different methods of collection:

Automated EHR report

Visual inspection of the medical record by professional data abstractors to capture the data elements to manually construct the performance

The data source was electronic health records in the ambulatory care setting. The data sample came from 2 sites representing a community health center and a large independent specialty practice, both in the Midwest region.

The sample consisted of 1144 patient encounters.

Visual inspection of the medical record was performed in 2010.

2b3.2 Analytic Method (Describe type of analysis and rationale for examining exclusions, including exclusion related to patient preference):

EHR Measure Validity

Data analysis included:

Percent agreement (false positives and false negatives)

Adjusted performance rates were projected for each measure by projecting both the number of patients with a valid numerator and number of patients with a valid exception from the sample who appeared to fail the measure

• Verbatim exceptions reasons were captured for each measure

2b3.3 **Results** (*Provide statistical results for analysis of exclusions, e.g., frequency, variability, sensitivity analyses*): EHR MEASURE VALIDITY

This measure demonstrates moderate agreement when comparing EHR automated report to visual inspection of the medical record.

Reliability: N, Agreement %

Overall: 66 patients, 100% agreement on exceptions

The automated performance rate did not change after manual review due to exceptions as agreement on exceptions was 100%.

2b4. Risk Adjustment Strategy. (For outcome measures, adjustment for differences in case mix (severity) across measured entities was appropriately tested with adequate results.)

2b4.1 Data/Sample (Description of the data or sample including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included): This measure is not risk adjusted.

2b4.2 Analytic Method (Describe methods and rationale for development and testing of risk model or risk stratification including selection of factors/variables):

This measure is not risk adjusted.

2b4.3 Testing Results (*Statistical risk model*: Provide quantitative assessment of relative contribution of model risk factors; risk model performance metrics including cross-validation discrimination and calibration statistics, calibration curve and risk decile plot, and assessment of adequacy in the context of norms for risk models. <u>Risk stratification</u>: Provide quantitative assessment of relationship of risk factors to the outcome and differences in outcomes among the strata): This measure is not risk adjusted.

2b4.4 If outcome or resource use measure is not risk adjusted, provide rationale and analyses to justify lack of adjustment: As a process measure, no risk adjustment is necessary.

2b5. Identification of Meaningful Differences in Performance. (*The performance measure scores were appropriately analyzed and discriminated meaningful differences in quality.*)

2b5.1 Data/Sample (Describe the data or sample including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included):

• Electronic matching of HIV/AIDS and hepatitis C surveillance registries in three states.

o 20,285 reports of HCV infection received by CDC from state/local surveillance programs in 2006-2007

o Defined a case of HCV infection as a person with a reactive antibody for hepatitis C, medical diagnosis, positive viral-load test result, or positive genotype reported to any of three state health departments from the start of each state's hepatitis C registry through June 30, 2008.

o Defined a case of HIV/AIDS as a person diagnosed and living with HIV/AIDS at the start of each state's respective hepatitis C registry through June 30, 2008.

• Baseline Characteristics and Mortality Among People in Care for Chronic Viral Hepatitis: The Chronic Hepatitis Cohort Study

o CDC reviewed electronic health records of >1,652,055 adult patients seen at 4 integrated healthcare systems in Detroit, Michigan; Danville, Pennsylvania; Portland, Oregon; and Honolulu, Hawaii

o Complete observation time was determined to be time from first evidence of hepatitis infection in the EHR, including retrospective data prior to 2006 until last health system encounter, death or December 31, 2010

• [Poor] Quality of Hepatitis C care at an urban tertiary medical center

o A study conducted at Boston Medical Center of CMS-defined HCV quality indicators, comparing data from 2005-2007 to 2008-2011

o CMS-defined HCV quality indicators: 1) HCV RNA testing; 2) Genotype testing; 3) Treatment initiation 4) HAV and HBV vaccination or documented immunity

o Inclusion criteria: >= 18 years old, Engagement in care (at least 2 outpatient visits, and a minimum of 6 months follow-up

time

- o 5,495 patients diagnosed with reactive HCV antibody; 3,108 engaged in care
- Understanding the Care Gap and Missed Oportunities for Hepatitis C Confirmatory Viral Testing

o 419 subjects who lacked HCV nucleic acid amplification technology (NAT) testing to characterize behaviors in response to patients who have a positive HCV antibody (ab) test but lack viral confirmatory testing

Speers S, Klevens RM, Vonderwahl C, Bryant T, Daniloff E, Capizzi J, Poissant T, Roome A. Electronic matching of HIV/AIDS and hepatitis C surveillance registries in three states. Public Health Rep. 2011 May-Jun;126(3):344-8.

Moorman AC, Gordon SČ, Rupp et al. Baseline Characteristics and Mortality Among People in Care for Chronic Viral Hepatitis: The Chronic Hepatitis Cohort Study. Clin Infect Dis. 2012 Oct 19. [Epub ahead of print].

Sabrina A. Assoumou MD, Wei Huang MA, Benjamin P. Linas, MD MPH. [Poor] Quality of Hepatitis C care at an urban tertiary medical center. Study conducted at Boston Medical Center. Outcomes: Centers for Medicare & Medicaid (CMS)-defined HCV quality indicators introduced in 2008: HCV RNA testing, Genotype testing, Hep A & Hep B vaccinations. Poster presentation from the Infectious Diseases Society of America (IDSA) meeting, 2012.

Yang Liu, BA, Renee H. Lawrence, PhD, Brook Watts, MD, Yngve Falck-Ytter, MD, Amy Hirsch, PharmD. Understanding the Care Gap and Missed Opportunities for Hepatitis C Confirmatory Viral testing. Poster presentation from the Society of General Interal Medicine (SGIM) meeting, 2012.

2b5.2 Analytic Method (Describe methods and rationale to identify statistically significant and practically/meaningfully differences in performance):

• Electronic matching of HIV/AIDS and hepatitis C surveillance registries in three states.

o HIV/AIDS and hepatitis C datasets were matched using Link King, public domain record linkage and consolidation software, and all potential matches were manually reviewed before acceptance as a match.

Baseline Characteristics and Mortality Among People in Care for Chronic Viral Hepatitis: The Chronic Hepatitis Cohort
Study

o Algorithms for inclusion in the chronic hepatitis B and C cohorts were developed and applied to the EHR and administrative data of patients aged =18 years from all sites with any healthcare utilization during 2006–2008

o Complex algorithms were developed with a bias to capture the greatest number of verifiable chronic hepatitis B and C cases from the raw observational data, while excluding those with a single unconfirmed diagnosis or laboratory evidence that might be due to acute disease, error, or lack of necessary clinical or laboratory workup.

- [Poor] Quality of Hepatitis C care at an urban tertiary medical center
- o Statistical approach: descriptive and univariable analysis of the percentage of patients receiving each QI measure
- o Logistic regression to identify predictors of quality care
- Understanding the Care Gap and Missed Opportunities for Hepatitis C Confirmatory Viral testing
- o Conducted a chart review to collect demographic data and patterns of provider behavior surrounding positive HCV screening tests for patients in the CARE GAP.

o Determined if the positive result was acknowledged in the Electronic Medical Record (EMR), and the service (PCP, non-PCP) of the ordering and acknowledging provider.

o For labs ordered and acknowledged by same provider, determined how provider acknowledged positive the HCVab: e.g., mentioned confirmatory testing, documented "Hepatitis C" in EMR, or took Hepatitis C follow-up clinical actions.

o Determined if unconfirmed diagnosis of "Hepatitis C" was referenced in a progress note of a future medical provider

2b5.3 Results (Provide measure performance results/scores, e.g., distribution by quartile, mean, median, SD, etc.; identification of statistically significant and meaningfully differences in performance):

The evidence shows that a substantial performance gap remains, illustrating that in practice, confirmatory testing after initial HCV antibody testing is NOT being done often enough to constitute "Standard of Care."

Electronic matching of HIV/AIDS and hepatitis C surveillance registries in three states.

o Of the 20,285 reports of HCV infection received by CDC from state/local surveillance programs in 2006-2007, a total of 10,834 (47.6%) reports had no positive result for HCV RNA.

| • | Baseline Characteristics and Mortality Among Peop | le in Care for Chronic | ic Viral Hepatitis: | The Chronic Hepatitis | Cohort |
|-------|---|------------------------|---------------------|-----------------------|--------|
| Study | | | | | |

o Of 9,086 patients with a positive HCV antibody test, 3,428 (37.7%) had no documented follow-up HCV RNA testing in the electronic database.

[Poor] Quality of Hepatitis C care at an urban tertiary medical center

o The study revealed a decline in the confirmation of HCV viremia from 73% (N=1168) in 2005-2007 to 63% (N=897) in 2008-2011.

Understanding the Care Gap and Missed Opportunities for Hepatitis C Confirmatory Viral testing

o 31% of patients with a positive HCV ab test, never had that result acknowledged by a medical provider (HCV ordering or other provider), resulting in missed opportunities for follow-up liver care and Hepatitis C treatment.

o In 251 instances, the positive HCV ab test was acknowledged by the ordering provider, and despite the lack of viral NAT, these providers took actions that indicated they believed patients had chronic Hepatitis C.4 These actions included addition of the ICD-9 diagnosis for chronic Hepatitis C to the patient's problem list, ordering serial liver function tests, ordering HAV/HBV vaccinations, etc. Interestingly, very few providers ordered confirmatory NAT in response to the positive HCV ab.

o In the cases where HCV was entered into the patient's problem list in the EMR, this unconfirmed diagnosis was "perpetuated" by future medical providers that the patient saw in 85% of instances.

2b6. Comparability of Multiple Data Sources/Methods. (If specified for more than one data source, the various approaches result in comparable scores.)

2b6.1 Data/Sample (Describe the data or sample including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included):

Please refer to the EHR Measure Validity section of this form.

2b6.2 Analytic Method (Describe methods and rationale for testing comparability of scores produced by the different data sources specified in the measure):

Please refer to the EHR Measure Validity section of this form.

2b6.3 Testing Results (*Provide statistical results, e.g., correlation statistics, comparison of rankings; assessment of adequacy in the context of norms for the test conducted*):

Please refer to the EHR Measure Validity section of this form.

2c. Disparities in Care: H M L I NA (If applicable, the measure specifications allow identification of disparities.)

2c.1 If measure is stratified for disparities, provide stratified results (*Scores by stratified categories/cohorts*): We encourage the results of this measure to be stratified by race, ethnicity, gender, and primary language, and have included these variables as recommended data elements to be collected.

2c.2 If disparities have been reported/identified (e.g., in 1b), but measure is not specified to detect disparities, please explain:

The PCPI advocates that performance measure data should, where possible, be stratified by race, ethnicity, and primary language to assess disparities and initiate subsequent quality improvement activities addressing identified disparities, consistent with recent national efforts to standardize the collection of race and ethnicity data. A 2008 NQF report endorsed 45 practices including stratification by the aforementioned variables.(1) A 2009 IOM report "recommends collection of the existing Office of Management and Budget (OMB) race and Hispanic ethnicity categories as well as more fine-grained categories of ethnicity(referred to as granular ethnicity and based on one's ancestry) and language need (a rating of spoken English language proficiency of less than very well and one's preferred language for health-related encounters)."(2)

References:

(1)National Quality Forum Issue Brief (No.10). Closing the Disparities Gap in Healthcare Quality with Performance Measurement and Public Reporting. Washington, DC: NQF, August 2008.

(2)Race, Ethnicity, and Language Data: Standardization for Health Care Quality Improvement. March 2010. AHRQ Publication No. 10-0058-EF. Agency for Healthcare Research and Quality, Rockville, MD. Available at: http://www.ahrq.gov/research/iomracereport. Accessed May 25, 2010.

2.1-2.3 Supplemental Testing Methodology Information:

Steering Committee: Overall, was the criterion, *Scientific Acceptability of Measure Properties*, met? (*Reliability and Validity must be rated moderate or high*) Yes No Provide rationale based on specific subcriteria:

If the Committee votes No, STOP

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)

C.1 Intended Actual/Planned Use (Check all the planned uses for which the measure is intended): Public Reporting, Quality Improvement (Internal to the specific organization)

3.1 Current Use (Check all that apply; for any that are checked, provide the specific program information in the following questions): Public Reporting, Quality Improvement (Internal to the specific organization)

3a. Usefulness for Public Reporting: H M L I (*The measure is meaningful, understandable and useful for public reporting.*)

3a.1. Use in Public Reporting - disclosure of performance results to the public at large (*If used in a public reporting program, provide name of program(s), locations, Web page URL(s)*). If not publicly reported in a national or community program, state the reason AND plans to achieve public reporting, potential reporting programs or commitments, and timeline, e.g., within 3 years of endorsement: [*For <u>Maintenance</u> – If not publicly reported, describe progress made toward achieving disclosure of performance results to the public at large and expected date for public reporting; provide rationale why continued endorsement should be considered.*]

This measure is currently in use in PQRS and has been since 2008.

The PCPI believes that the reporting of participation information is a beneficial first step on a trajectory toward the public reporting of performance results, which is appropriate since the measure has been tested and the reliability of the performance data has been validated. Continued NQF endorsement will facilitate our ongoing progress toward this public reporting objective.

3a.2. Provide a rationale for why the measure performance results are meaningful, understandable, and useful for public reporting. If usefulness was demonstrated (e.g., focus group, cognitive testing), describe the data, method, and results: The PCPI believes that the reporting of participation information is a beneficial first step on a trajectory toward the public reporting of performance results, which is appropriate since the measure has been tested and the reliability of the performance data has been validated. Continued NQF endorsement will facilitate our ongoing progress toward this public reporting objective.

3.2 Use for other Accountability Functions (payment, certification, accreditation). If used in a public accountability program, provide name of program(s), locations, Web page URL(s): This measure may be used in a Maintenance of Certification program.

3b. Usefulness for Quality Improvement: H M L I (The measure is meaningful, understandable and useful for quality improvement.)

3b.1. Use in QI. If used in quality improvement program, provide name of program(s), locations, Web page URL(s): [*For <u>Maintenance</u> – If not used for QI, indicate the reasons and describe progress toward using performance results for improvement*].

All PCPI measures are suitable for use in quality improvement initiatives and are made freely available on the PCPI website and through the implementation efforts of medical specialty societies and other PCPI members. The PCPI strongly encourages the use

of its measures in QI initiatives and seeks to provide information on such initiatives to PCPI members.

3b.2. Provide rationale for why the measure performance results are meaningful, understandable, and useful for quality improvement. If usefulness was demonstrated (e.g., Ql initiative), describe the data, method and results:

The PCPI believes that the use of PCPI measures in quality improvement initiatives is a beneficial way to gather scientific data with which to improve physician performance. This is appropriate since the measure has been tested and the reliability of the performance data has been validated. NQF endorsement will facilitate our ongoing progress toward this quality improvement objective.

Overall, to what extent was the criterion, *Usability*, met? H M L I Provide rationale based on specific subcriteria:

4. FEASIBILITY

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

4a. Data Generated as a Byproduct of Care Processes: H M L I

4a.1-2 How are the data elements needed to compute measure scores generated? (Check all that apply). Data used in the measure are:

generated by and used by healthcare personnel during the provision of care, e.g., blood pressure, lab value, medical condition

4b. Electronic Sources: H M L I

4b.1 Are the data elements needed for the measure as specified available electronically (*Elements that are needed to compute measure scores are in defined, computer-readable fields*): ALL data elements in electronic health records (EHRs)

4b.2 If ALL data elements are not from electronic sources, specify a credible, near-term path to electronic capture, OR provide a rationale for using other than electronic sources:

4c. Susceptibility to Inaccuracies, Errors, or Unintended Consequences: H M L

4c.1 Identify susceptibility to inaccuracies, errors, or unintended consequences of the measurement identified during testing and/or operational use and strategies to prevent, minimize, or detect. If audited, provide results: We are not aware of any unintended consequences related to this measurement.

4d. Data Collection Strategy/Implementation: H M L I

A.2 Please check if either of the following apply (regarding proprietary measures):

4d.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 and frequency of data collection, sampling, patient confidentiality, time and cost of data collection, other feasibility/implementation issues (*e.g., fees for use of proprietary measures*): This measure was found to be reliable and feasible for implementation.

Overall, to what extent was the criterion, *Feasibility*, met? H M L I Provide rationale based on specific subcriteria:

OVERALL SUITABILITY FOR ENDORSEMENT

Does the measure meet all the NQF criteria for endorsement? Yes No Rationale:

If the Committee votes No, STOP. If the Committee votes Yes, the final recommendation is contingent on comparison to related and competing measures.

5. COMPARISON TO RELATED AND COMPETING MEASURES

If a measure meets the above criteria and there are endorsed or new related measures (either the same measure focus or the same target population) or competing measures (both the same measure focus and the same target population), the measures are compared to address harmonization and/or selection of the best measure before a final recommendation is made.

5.1 If there are related measures (*either same measure focus or target population*) or competing measures (*both the same measure focus and same target population*), list the NQF # and title of all related and/or competing measures:

5a. Harmonization

5a.1 If this measure has EITHER the same measure focus OR the same target population as <u>NQF-endorsed measure(s)</u>: Are the measure specifications completely harmonized?

5a.2 If the measure specifications are not completely harmonized, identify the differences, rationale, and impact on interpretability and data collection burden:

5b. Competing Measure(s)

5b.1 If this measure has both the same measure focus and the same target population as NQF-endorsed measure(s): Describe why this measure is superior to competing measures (*e.g.*, *a more valid or efficient way to measure quality*); OR provide a rationale for the additive value of endorsing an additional measure. (*Provide analyses when possible*):

CONTACT INFORMATION

Co.1 Measure Steward (Intellectual Property Owner): American Medical Association - Physician Consortium for Performance Improvement (AMA-PCPI), 515 N. State St., Chicago, Illinois, 60654

Co.2 Point of Contact: Mark S., Antman, DDS, MBA, Director, Measure Development Operations Performance Improvement, mark.antman@ama-assn.org, 312-464-5056-

Co.3 Measure Developer if different from Measure Steward: American Medical Association - Physician Consortium for Performance Improvement (AMA-PCPI), 515 N. State St., Chicago, Illinois, 60654

Co.4 Point of Contact: Mark S., Antman, DDS, MBA, Director, Measure Development Operations Performance Improvement, mark.antman@ama-assn.org, 312-464-5056-

Co.5 Submitter: Katherine, Ast, MSW, LCSW, katherine.ast@ama-assn.org, 312-464-4920-, American Medical Association - Physician Consortium for Performance Improvement (AMA-PCPI)

Co.6 Additional organizations that sponsored/participated in measure development: American Association for the Study of Liver Diseases, American Gastroenterological Association Institute

Co.7 Public Contact: Mark S., Antman, DDS, MBA, Director, Measure Development Operations Performance Improvement, mark.antman@ama-assn.org, 312-464-5056-, American Medical Association - Physician Consortium for Performance Improvement (AMA-PCPI)

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.

Co-Chairs: John B. Wong, MD (gastroenterology, hepatology, methodology) John W. Ward, MD (internal medicine)

Work Group Members: Joel V. Brill, MD (gastroenterology) Roger Chou, MD (internal medicine, guideline experience) Richard H. Davis, Jr., PA-C (physician assistant) Yngve Falck-Ytter, MD, AGAF (gastroenterology/liver/hepatologist) Troy Fiesinger, MD, FAAFP (family medicine) Marc G. Ghany, MD, MHSc (quideline experience/hepatology) Arthur Yu-shin Kim, MD (HIV and HCV co-infection) Barbara H. McGovern, MD (HIV and HCV co-infection) Daniel B. Raymond (consumer/patient advocacy group) Paola Ricci, MD (hepatology/gastroenterology) Saverio Sava, MD (CHC representative/hepatologist) Lynn Gardiner Seim, MSN, RN (patient advocacy) Jessica A. Shepherd, MD, MBA (OB/GYN) Margaret C. Shuhart, MD, MS (hepatology/gastroenterology) Amy Hirsch Shumaker, PharmD, BCPS (pharmacy, hepatology, infectious disease) Chris Taylor (patient advocacy/public health) Glenn Treisman, MD, PhD (HIV and HCV psychiatrist) Weifeng Weng, PhD (health services researcher/ABIM PIM development) John Yao, MD, MPH, MBA, MPA, FACP (health plan representative)

PCPI measures are developed through cross-specialty, multi-disciplinary work groups. All medical specialties and other health care professional disciplines participating in patient care for the clinical condition or topic under study are invited to participate as equal contributors to the measure development process. In addition, the PCPI strives to include on its work groups individuals representing the perspectives of patients, consumers, private health plans, and employers. This broad-based approach to measure development ensures buy-in on the measures from all stakeholders and minimizes bias toward any individual specialty or stakeholder group. All work groups have at least two co-chairs who have relevant clinical and/or measure development expertise and who are responsible for ensuring that consensus is achieved and that all perspectives are voiced.

Ad.2 If adapted, provide title of original measure, NQF # if endorsed, and measure steward. Briefly describe the reasons for adapting the original measure and any work with the original measure steward: n/a

Measure Developer/Steward Updates and Ongoing Maintenance

Ad.3 Year the measure was first released: 2006

Ad.4 Month and Year of most recent revision: 06, 2012

Ad.5 What is your frequency for review/update of this measure? See Ad.9.

Ad.6 When is the next scheduled review/update for this measure? 06, 2012

Ad.7 Copyright statement: Physician Performance Measures (Measures) and related data specifications have been developed by the American Medical Association (AMA)-convened Physician Consortium for Performance Improvement[®] (PCPI[™]).

These performance Measures are not clinical guidelines and do not establish a standard of medical care, and have not been tested for all potential applications.

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Ad.8 Disclaimers: In an integrated or non-integrated system, physicians should get "credit" if someone orders this test, regardless of who (or when in the case of say vaccination where the hepatologists may not stock vaccines but the primary care docs do). The specifications for this measure agree that a physician would get "credit" for ordering the test, because the specifications require that either the test is ordered or the results documented. So long as the primary care physician orders the test, the PCP would get credit for the measure. And alternatively, a PCP would not meet the measure if a HCV positive patient was referred to a specialist without at least ordering the viral load test - since that is the intent of the measure. The physician's order would be entered in an EHR and if test results were available they would also be entered in the EHR most likely under a "tests" section.

Ad.9 Additional Information/Comments: Coding/Specifications updates occur annually. The PCPI has a formal measurement review process that stipulates regular (usually on a three-year cycle, when feasible) review of the measures. The process can also be activated if there is a major change in scientific evidence, results from testing or other issues are noted that materially affect the integrity of the measure.

Date of Submission (MM/DD/YY): 07/02/2012

| Clinical Topic | Hepatitis C |
|-------------------------------|--|
| Measure Title | Testing for Chronic Hepatitis C : Confirmation of Hepatitis C Viremia |
| Measure # | PCPI # HEPC-1 / NQF # 0393 / PQRS # 83 |
| Measure Description | Percentage of patients aged 18 years and older with a diagnosis of hepatitis C seen for an initial evaluation who had HCV RNA testing ordered or previously performed |
| Measurement Period | Twelve consecutive months |
| Initial Patient Population | Patient Age: Patients aged 18 years and older before the start of the measurement period Diagnosis Active: Hepatitis C starts before or during encounter during measurement period Encounter: At least two visits with a physician, physician's assistant, or nurse practitioner for an initial evaluation (to include: 1) for new patients and 2) for established/consult patients) during the measurement period |
| Denominator Statement | All patients aged 18 years and older with a diagnosis of hepatitis C seen for initial evaluation |
| Numerator Statement | Patients for whom HCV RNA testing was ordered or previously performed |
| Denominator Exceptions | Documentation of medical reason(s) for not ordering or performing HCV RNA testing Documentation of patient reason(s) for not ordering or performing HCV RNA testing |

Hepatitis C Data Elements for PCPI eSpecification Measure #1 : Testing for Chronic Hepatitis C - Confirmation of Hepatitis C Viremia

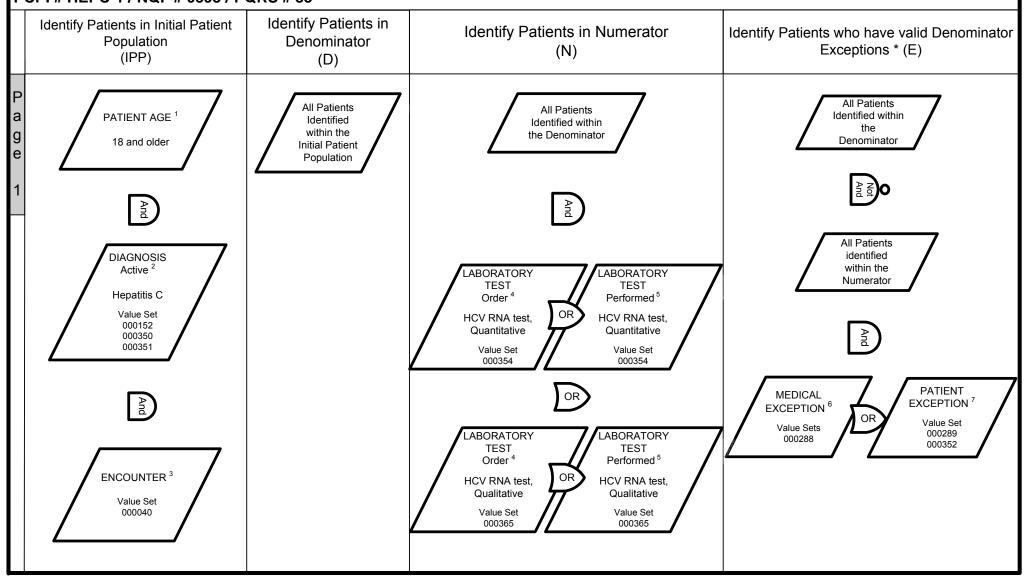
| QDM* Standard Category | QDM* Data Type | Standard Terminology | Constraints | Value Set Name | Value of Data Element | Data Source | Comments/Rationale |
|---------------------------------|----------------------------|-------------------------------|--|---|-----------------------------|--|---|
| Measure Timing | N/A | N/A | TBD by measure implementer | Measurement Start Date | | | |
| Measure Timing | N/A | N/A | TBD by measure implementer | Measurement End Date | | | |
| Individual Characteristic | Patient Characteristic | HL7 | during measurement period | Gender | | Electronic Administrative Claims Electronic Health Record (EHR) | This data element is collected for the purpose of stratifying results in an effort to highlight disparities. |
| Individual Characteristic | Patient Characteristic | CDC | during measurement period | Race | | Electronic Health Record (EHR) | This data element is collected for the purpose of stratifying results in an effort to highlight disparities. |
| Individual Characteristic | Patient Characteristic | CDC | during measurement period | Ethnicity | | Electronic Health Record (EHR) | This data element is collected for the purpose of stratifying results in an effort to highlight disparities. |
| Individual Characteristic | Patient Characteristic | CDC | during measurement period | Preferred Language | | Electronic Health Record (EHR) | This data element is collected for the purpose of stratifying results in an effort to highlight disparities. |
| Individual Characteristic | Patient Characteristic | Source of Payment Typology | during measurement period | Payer | | Electronic Health Record (EHR) | This data element is collected for the purpose of stratifying results in an effort to highlight disparities. |
| Individual Characteristic | Patient Characteristic | LN | starts before the start of measurement period | Date of Birth | | Electronic Administrative Claims Electronic Health Record (EHR) | |
| Individual Characteristic | Patient Characteristic | Calculated | before the start of measurement period | Age | ≥ 18 | Electronic Administrative Claims Electronic Health Record (EHR) | Measurement start date minus Date of Birth must be greater than or equal to 18 years. |
| Condition / Diagnosis / Problem | Diagnosis, Active | 19, 110, SNM | starts before or during encounter during measurement period | Hepatitis C, Acute | | Electronic Administrative Claims Electronic Health Record (EHR) | |
| Condition / Diagnosis / Problem | Diagnosis, Active | 19, 110, SNM | starts before or during encounter during measurement period | Hepatitis C, Chronic | | Electronic Administrative Claims Electronic Health Record (EHR) | |
| Condition / Diagnosis / Problem | Diagnosis, Active | 19, 110, SNM | starts before or during encounter during measurement period | Hepatitis C, Unspecified | | Electronic Administrative Claims Electronic Health Record (EHR) | |
| Encounter | Encounter, Performed | СРТ | during measurement period | Encounter - Office & Outpatient Consult | count ≥ 2 | Electronic Administrative Claims Electronic Health Record (EHR) | For denominator inclusion, patient must be seen for an 'initial evaluation'. |
| Laboratory Test | Laboratory Test, Order | LN | during measurement period | HCV RNA test, Quantitative | | Electronic Health Record (EHR) | |
| Laboratory Test | Laboratory Test, Performed | LN | starts before or during measurement period | HCV RNA test, Quantitative | | Electronic Health Record (EHR) | |
| Laboratory Test | Laboratory Test, Order | LN | during measurement period | HCV RNA test, Qualitative | | Electronic Health Record (EHR) | |
| Laboratory Test | Laboratory Test, Performed | LN | starts before or during measurement period | t HCV RNA test, Qualitative | | Electronic Health Record (EHR) | |
| Laboratory Test | Laboratory Test, Not Done | SNM | during measurement period | Medical Reason(s) | | Electronic Health Record (EHR) | |
| Laboratory Test | Laboratory Test, Not Done | SNM | during measurement period | Patient Reason(s) | | Electronic Health Record (EHR) | |

PCPI eSpecification

Measure Logic for Hepatitis C : Testing for Chronic Hepatitis C - Confirmation of Hepatitis C Viremia

Measure Description: Percentage of patients aged 18 years and older with a diagnosis of hepatitis C seen for an initial evaluation who had HCV RNA testing ordered or previously performed

Measurement Period: 12 Consecutive Months PCPI # HEPC-1 / NQF # 0393 / PQRS # 83



PARAMETER SPECIFICATIONS (Value Sets are found in the Coding Appendices):

IPP: ¹ Patient Age: measurement start date minus birth date (value set 000307) ≥ 18 years before the start of measurement period; ² Diagnosis, Active: starts before or during measurement period; ³ Encounter: ≥ 2 office visits or outpatient consults during measurement period;

N: ⁴Laboratory Test, Order: during measurement period; ⁵Laboratory Test, Performed: starts before or during measurement period;

E: ⁶ Medical Exception: during measurement period; ⁷ Patient Exception: during measurement period;

PCPI eSpecification

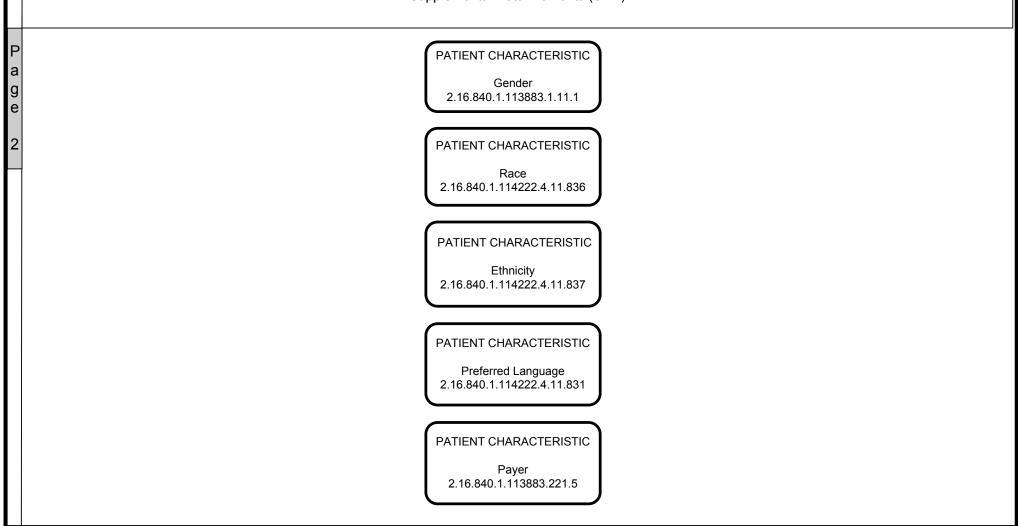
 Measure Logic for Hepatitis C : Testing for Chronic Hepatitis C - Confirmation of Hepatitis C Viremia

 Measure Description: Percentage of patients aged 18 years and older with a diagnosis of hepatitis C seen for an initial evaluation who had HCV RNA testing ordered or previously performed

 Measurement Period: 12 Consecutive Months

 PCPI # HEPC-1 / NQF # 0393 / PQRS # 83

 Supplemental Data Elements (SDE)



See Data Requirements Table for timing constraints and relationship between data elements.

The Supplemental Data Elements (SDE) are collected for the purpose of stratifying results in an effort to highlight disparities.

PCPI eSpecification HEPATITIS C HEPC-1 : Testing for Chronic Hepatitis C - Confirmation of Hepatitis C Viremia

| Value Set ID | Clinical Topic | Topic Indicator | Measure Component | Standard Concept | Standard Category | Taxonomy | Code | Code Descriptor |
|-----------------|-------------------|--------------------|----------------------|---|---------------------------------|----------|-----------|--|
| 000307 | HEPC | 1 | IPP | Birth Date | Individual Characteristic | LN | 21112-8 | Birth date: TmStp:Pt:^Patient:Qn: |
| 000350 | HEPC | 1 | IPP | Hepatitis C, Chronic | Condition / Diagnosis / Problem | 19 | 070.54 | Chronic hepatitis C without hepatic coma |
| 000350 | HEPC | 1 | IPP | Hepatitis C, Chronic | Condition / Diagnosis / Problem | l10 | B18.2 | Chronic viral hepatitis C |
| 000350 | HEPC | 1 | IPP | Hepatitis C, Chronic | Condition / Diagnosis / Problem | SNM | 128302006 | Chronic hepatitis C |
| 000152 | HEPC | 1 | IPP | Hepatitis C, Acute | Condition / Diagnosis / Problem | 19 | 070.51 | Acute hepatitis C without mention of hepatic coma |
| 000152 | HEPC | 1 | IPP | Hepatitis C, Acute | Condition / Diagnosis / Problem | l10 | B17.10 | Acute hepatitis C without hepatic coma (NOS) |
| 000152 | HEPC | 1 | IPP | Hepatitis C, Acute | Condition / Diagnosis / Problem | SNM | 235866006 | Acute hepatitis C |
| 000351 | HEPC | 1 | IPP | Hepatitis C, Unspecified | Condition / Diagnosis / Problem | 19 | 070.70 | Unspecified viral hepatitis C without hepatic coma |
| 000351 | HEPC | 1 | IPP | Hepatitis C, Unspecified | Condition / Diagnosis / Problem | l10 | B19.20 | Unspecified viral hepatitis C without hepatic coma |
| 000351 | HEPC | 1 | IPP | Hepatitis C, Unspecified | Condition / Diagnosis / Problem | SNM | 442374005 | Hepatitis B and hepatitis C |
| 000351 | HEPC | 1 | IPP | Hepatitis C, Unspecified | Condition / Diagnosis / Problem | SNM | 50711007 | Viral hepatitis C |
| 000040 | HEPC | 1 | IPP | Encounter - Office & Outpatient Consult | Encounter | CPT | 99201 | |
| 000040 | HEPC | 1 | IPP | Encounter - Office & Outpatient Consult | Encounter | CPT | 99202 | |
| 000040 | HEPC | 1 | IPP | Encounter - Office & Outpatient Consult | Encounter | CPT | 99203 | |
| 000040 | HEPC | 1 | IPP | Encounter - Office & Outpatient Consult | Encounter | CPT | 99204 | |
| 000040 | HEPC | 1 | IPP | Encounter - Office & Outpatient Consult | Encounter | CPT | 99205 | |
| 000040 | HEPC | 1 | IPP | Encounter - Office & Outpatient Consult | Encounter | CPT | 99212 | |
| 000040 | HEPC | 1 | IPP | Encounter - Office & Outpatient Consult | Encounter | CPT | 99213 | |
| 000040 | HEPC | 1 | IPP | Encounter - Office & Outpatient Consult | Encounter | CPT | 99214 | |
| 000040 | HEPC | 1 | IPP | Encounter - Office & Outpatient Consult | Encounter | CPT | 99215 | |
| 000040 | HEPC | 1 | IPP | Encounter - Office & Outpatient Consult | Encounter | CPT | 99241 | |
| 000040 | HEPC | 1 | IPP | Encounter - Office & Outpatient Consult | Encounter | CPT | 99242 | |
| 000040 | HEPC | 1 | IPP | Encounter - Office & Outpatient Consult | Encounter | CPT | 99243 | |
| 000040 | HEPC | 1 | IPP | Encounter - Office & Outpatient Consult | Encounter | CPT | 99244 | |
| 000040 | HEPC | 1 | IPP | Encounter - Office & Outpatient Consult | Encounter | CPT | 99245 | |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 10676-5 | HCV RNA SerPI Amp Prb-aCnc |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 11011-4 | HCV RNA SerPI PCR-aCnc |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 20416-4 | HCV RNA # SerPI PCR |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 20571-6 | HCV RNA # SerPI bDNA |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 29609-5 | HCV RNA SerPI bDNA-aCnc |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 34703-9 | HCV RNA SerPI PCR DL=500-aCnc |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 34704-7 | HCV RNA SerPI PCR DL=50-aCnc |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 38180-6 | HCV RNA SerPI PCR-Log IU |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 42617-1 | HCV RNA SerPI bDNA-Log IU |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49369-2 | HCV RNA # CSF PCR |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49370-0 | HCV RNA # Mar PCR |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49371-8 | HCV RNA # Tiss PCR |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49376-7 | HCV RNA XXX PCR-aCnc |

PCPI eSpecification HEPATITIS C HEPC-1 : Testing for Chronic Hepatitis C - Confirmation of Hepatitis C Viremia

| Value Set ID | Clinical Topic | Topic Indicator | Measure Component | Standard Concept | Standard Category | Taxonomy | Code | Code Descriptor |
|-----------------|-------------------|--------------------|----------------------|--------------------------------------|---------------------------|----------|--------------|---|
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49377-5 | HCV RNA CSF PCR-aCnc |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49378-3 | HCV RNA Mar PCR-aCnc |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49379-1 | HCV RNA Tiss PCR-aCnc |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49380-9 | HCV RNA # XXX PCR |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49603-4 | HCV RNA CSF PCR-Log IU |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49604-2 | HCV RNA Mar PCR-Log IU |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49605-9 | HCV RNA XXX PCR-Log IU |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49608-3 | HCV RNA Tiss PCR-Log IU |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49758-6 | HCV RNA SerPI PCR DL=5-aCnc |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 50023-1 | HCV RNA Pnl SerPl PCR |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49372-6 | HCV RNA XXX PCR-Log# |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49373-4 | HCV RNA CSF PCR-Log# |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49374-2 | HCV RNA Mar PCR-Log# |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 49375-9 | HCV RNA Tiss PCR-Log# |
| 000354 | HEPC | 1 | Ν | HCV RNA test, Quantitative | Laboratory Test | LN | 47252-2 | HCV RNA SerPI PCR-Log# |
| 000365 | HEPC | 1 | Ν | HCV RNA test, Qualitative | Laboratory Test | LN | 11259-9 | HCV RNA SerPI QI PCR |
| 000365 | HEPC | 1 | Ν | HCV RNA test, Qualitative | Laboratory Test | LN | 48576-3 | HCV RNA XXX QI bDNA |
| 000365 | HEPC | 1 | Ν | HCV RNA test, Qualitative | Laboratory Test | LN | 5010-4 | HCV RNA BId QI PCR |
| 000365 | HEPC | 1 | Ν | HCV RNA test, Qualitative | Laboratory Test | LN | 5011-2 | HCV RNA Tiss QI PCR |
| 000365 | HEPC | 1 | Ν | HCV RNA test, Qualitative | Laboratory Test | LN | 5012-0 | HCV RNA XXX QI PCR |
| 000365 | HEPC | 1 | Ν | HCV RNA test, Qualitative | Laboratory Test | LN | 51655-9 | HCV RNA Fld QI PCR |
| 000288 | HEPC | 1 | E | Medical Exception | Laboratory Test, Not Done | SNM | 501000124106 | Exclusion from performance measure for medical reason (finding) |
| 000289 | HEPC | 1 | E | Patient Exception | Laboratory Test, Not Done | SNM | 511000124109 | Exclusion from performance measure for patient reason (finding) |
| 000352 | HEPC | 1 | E | Patient Exception - Lab Test Refused | Laboratory Test, Not Done | SNM | 165342003 | Patient refused laboratory test (situation) |

| | | | | Supplemental Data Ele | | | |
|---------------------|--------------------------|----------------|---------------------------|-----------------------------|---------------------|------|---|
| Value Set Developer | Value Set OID | Value Set Name | QDM Category | Code System | Code System Version | Code | Descriptor |
| HL7 | 2.16.840.1.113883.1.11.1 | Gender | Individual Characteristic | HL7 (2.16.840.1.113883.5.1) | 1062-20101110 | F | Female |
| HL7 | 2.16.840.1.113883.1.11.1 | Gender | Individual Characteristic | HL7 (2.16.840.1.113883.5.1) | 1062-20101110 | М | Male |
| HL7 | 2.16.840.1.113883.1.11.1 | Gender | Individual Characteristic | HL7 (2.16.840.1.113883.5.1) | 1062-20101110 | UN | Undifferentiated |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 1 | MEDICARE |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 2 | MEDICAID |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3 | OTHER GOVERNMENT (Federal/State/Local) (excluding Department of Corrections) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 4 | DEPARTMENTS OF CORRECTIONS |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 5 | PRIVATE HEALTH INSURANCE |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 6 | BLUE CROSS/BLUE SHIELD |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 7 | MANAGED CARE, UNSPECIFIED(to be used only if one can't distinguish public from private) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 8 | NO PAYMENT from an Organization/Agency/Program/Private Payer Listed |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 9 | MISCELLANEOUS/OTHER |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 11 | Medicare (Managed Care) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 12 | Medicare (Non-managed Care) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 19 | Medicare Other |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 21 | Medicaid (Managed Care) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 22 | Medicaid (Non-managed Care Plan) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 23 | Medicaid/SCHIP |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 24 | Medicaid Applicant |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 25 | Medicaid - Out of State |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 29 | Medicaid Other |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 31 | Department of Defense |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 32 | Department of Veterans Affairs |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 33 | Indian Health Service or Tribe |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 34 | HRSA Program |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 35 | Black Lung |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 36 | State Government |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 37 | Local Government |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 38 | Other Government (Federal, State, Local not specified) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 39 | Other Federal |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 41 | Corrections Federal |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 42 | Corrections State |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 43 | Corrections Local |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 44 | Corrections Unknown Level |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 51 | Managed Care (Private) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 52 | Private Health Insurance - Indemnity |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 53 | Managed Care (private) or private health insurance (indemnity), not otherwise specified |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 54 | Organized Delivery System |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 55 | Small Employer Purchasing Group |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 59 | Other Private Insurance |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 61 | BC Managed Care |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 62 | BC Indemnity |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 63 | BC (Indemnity or Managed Care) - Out of State |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 64 | BC (Indemnity or Managed Care) - Unspecified |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 69 | BC (Indemnity or Managed Care) - Other |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 71 | HMO |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 72 | PPO |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 73 | POS |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 79 | Other Managed Care, Unknown if public or private |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 81 | Self-pay |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 82 | No Charge |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 83 | Refusal to Pay/Bad Debt |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 84 | Hill Burton Free Care |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 85 | Research/Donor |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 89 | No Payment, Other |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 91 | Foreign National |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 92 | Other (Non-government) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 93 | Disability Insurance |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 94 | Long-term Care Insurance |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 95 | Worker's Compensation |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 96 | Auto Insurance (no fault) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 98 | Other specified (includes Hospice - Unspecified plan) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 99 | No Typology Code available for payment source |
| | - | | | | | | · ·· ·· ·· · · · · · · · · · · · · · · |

| | | | | Supplemental Data Ele | ements (SDE) value | Jeis | |
|---------------------|-------------------------|----------------|---------------------------|----------------------------|---------------------|------|--|
| Value Set Developer | Value Set OID | Value Set Name | QDM Category | Code System | Code System Version | Code | Descriptor |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 111 | Medicare HMO |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 112 | Medicare PPO |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 112 | Medicare POS |
| | | | | | | | |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 119 | Medicare Managed Care Other |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 121 | Medicare FFS |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 122 | Drug Benefit |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 123 | Medicare Medical Savings Account (MSA) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 129 | Medicare Non-managed Care Other |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 211 | Medicaid HMO |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 212 | Medicaid PPO |
| | | | | | | | |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 213 | Medicaid PCCM (Primary Care Case Management) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 219 | Medicaid Managed Care Other |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 311 | TRICARE (CHAMPUS) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 312 | Military Treatment Facility |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 313 | DentalStand Alone |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 321 | Veteran careCare provided to Veterans |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 322 | Non-veteran care |
| | | | | | | | |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 331 | Indian Health Service - Regular |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 332 | Indian Health Service - Contract |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 333 | Indian Health Service - Managed Care |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 334 | Indian Tribe - Sponsored Coverage |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 341 | Title V (MCH Block Grant) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 342 | Migrant Health Program |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 343 | Ryan White Act |
| | | | | | | | |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 349 | Other |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 361 | State SCHIP program (codes for individual states) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 362 | Specific state programs (list/ local code) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 369 | State, not otherwise specified (other state) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 371 | Local - Managed care |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 372 | FFS/Indemnity |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 379 | Local, not otherwise specified (other local, county) |
| | | | | | | | |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 381 | Federal, State, Local not specified managed care |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 382 | Federal, State, Local not specified - FFS |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 389 | Federal, State, Local not specified - Other |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 511 | Commercial Managed Care - HMO |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 512 | Commercial Managed Care - PPO |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 513 | Commercial Managed Care - POS |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 514 | Exclusive Provider Organization |
| | | | | | | - | |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 515 | Gatekeeper PPO (GPPO) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 519 | Managed Care, Other (non HMO) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 521 | Commercial Indemnity |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 522 | Self-insured (ERISA) Administrative Services Only (ASO) plan |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 523 | Medicare supplemental policy (as second payer) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 529 | Private health insurance—other commercial Indemnity |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 611 | BC Managed Care - HMO |
| | | | | | | | |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 612 | BC Managed Care - PPO |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | | BC Managed Care - POS |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 619 | BC Managed Care - Other |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 821 | Charity |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 822 | Professional Courtesy |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 823 | Hispanic or Latino |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 951 | Worker's Comp HMO |
| | | | Individual Characteristic | | | | |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | | Source of Payment Typology | 4.0 | 953 | Worker's Comp Fee-for-Service |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 954 | Worker's Comp Other Managed Care |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 959 | Worker's Comp, Other unspecified |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3111 | TRICARE PrimeHMO |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3112 | TRICARE ExtraPPO |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3113 | TRICARE Standard - Fee For Service |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3114 | TRICARE For LifeMedicare Supplement |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3114 | TRICARE Reserve Select |
| | | | | | | | |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3116 | Uniformed Services Family Health Plan (USFHP) HMO |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3119 | Department of Defense - (other) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3121 | Enrolled PrimeHMO |
| | | | | | | | |

| | | | - | Supplemental Data Ele | | | |
|---------------------|----------------------------|--------------------|---------------------------|----------------------------|---------------------|--------|--|
| Value Set Developer | Value Set OID | Value Set Name | QDM Category | Code System | Code System Version | Code | Descriptor |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3122 | Non-enrolled Space Available |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3123 | TRICARE For Life (TFL) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3211 | Direct CareCare provided in VA facilities |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3212 | Indirect CareCare provided outside VA facilities |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | | Source of Payment Typology | 4.0 | 3221 | Civilian Health and Medical Program for the VA (CHAMPVA) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | | Source of Payment Typology | 4.0 | 3222 | Spina Bifida Health Care Program (SB) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | | Source of Payment Typology | 4.0 | 3223 | Children of Women Vietnam Veterans (CWVV) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3229 | Other non-veteran care |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3711 | HMO |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | | Source of Payment Typology | 4.0 | 3712 | PPO |
| PHDSC | 2.16.840.1.113883.221.5 | | | Source of Payment Typology | 4.0 | 3712 | POS |
| | | Payer | | | | | |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3811 | Federal, State, Local not specified - HMO |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3812 | Federal, State, Local not specified - PPO |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 3813 | Federal, State, Local not specified - POS |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | | Source of Payment Typology | 4.0 | 3819 | Federal, State, Local not specified - not specified managed care |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 9999 | Unavailable / Unknown |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | | Fee Basis |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | | Source of Payment Typology | 4.0 | 32122 | Foreign Fee/Foreign Medical Program(FMP) |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | | Source of Payment Typology | 4.0 | | Contract Nursing Home/Community Nursing Home |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 32124 | State Veterans Home |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | Individual Characteristic | Source of Payment Typology | 4.0 | 32125 | Sharing Agreements |
| PHDSC | 2.16.840.1.113883.221.5 | Payer | | Source of Payment Typology | 4.0 | | Other Federal Agency |
| CDC NCHS | 2.16.840.1.114222.4.11.836 | Race | | CDC | 1.0 | | American Indian or Alaska Native |
| CDC NCHS | 2.16.840.1.114222.4.11.836 | Race | Individual Characteristic | CDC | 1.0 | 2028-9 | |
| CDC NCHS | 2.16.840.1.114222.4.11.836 | Race | Individual Characteristic | CDC | 1.0 | | Black or African American |
| CDC NCHS | 2.16.840.1.114222.4.11.836 | Race | Individual Characteristic | CDC | 1.0 | | |
| CDC NCHS | 2.16.840.1.114222.4.11.836 | Race | Individual Characteristic | CDC | 1.0 | | |
| CDC NCHS | 2.16.840.1.114222.4.11.836 | Race | Individual Characteristic | CDC | 1.0 | | |
| CDC NCHS | 2.16.840.1.114222.4.11.830 | | Individual Characteristic | CDC | 1.0 | | |
| | | Ethnicity | | | | | |
| CDC NCHS | 2.16.840.1.114222.4.11.837 | Ethnicity | Individual Characteristic | CDC | 1.0 | | Not Hispanic or Latino |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | | Abkhazian |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | ace | Achinese |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | | CDC | 20080708 | ach | Acoli |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | ada | Adangme |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | ady | Adyghe; Adygei |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | aar | Afar |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | afh | Afrihili |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | afr | Afrikaans |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | afa | Afro-Asiatic (Other) |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | ain | Ainu |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | aka | Akan |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | | CDC | 20080708 | akk | Akkadian |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | alb | Albanian |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | | CDC | 20080708 | ale | Aleut |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | | CDC | 20080708 | alg | Algonquian languages |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | tut | Altaic (Other) |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | amh | Amaric |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | ann | Angika |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | | Angika Apache languages |
| | | | | | | apa | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | ara | Arabic |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | arg | Aragonese |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | arp | Arapaho |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | arw | Arawak |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | arm | Armenian |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | rup | Aromanian; Arumanian; Macedo-Romanian |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | | CDC | 20080708 | art | Artificial (Other) |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | asm | Assamese |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | ast | Asturian; Bable; Leonese; Asturleonese |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | ath | Athapascan languages |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | aus | Australian languages |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | map | Austronesian (Other) |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | | CDC | 20080708 | ava | Avaric |
| CDC | 2.16.840.1.114222.4.11.831 | | | CDC | 20080708 | ave | Avestan |
| | | Language | | 1 | | | |

| | | | | ments (SDE) value S | | |
|------|----------------------------|--|-----|---------------------|-----|---|
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | awa | Awadhi |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | aym | Aymara |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | | aze | Azerbaijani |
| CDC | | Preferred Language Individual Characteristic | CDC | | ban | Balinese |
| | | | | | | |
| CDC | | Preferred Language Individual Characteristic | CDC | | bat | Baltic (Other) |
| CDC | | Preferred Language Individual Characteristic | CDC | 20080708 | bal | Baluchi |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | bam | Bambara |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | bai | Bamileke languages |
| CDC | 2.16.840.1.114222.4.11.831 | | CDC | | bad | Banda languages |
| CDC | | Preferred Language Individual Characteristic | CDC | | bau | Bantu (Other) |
| | | | | | | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | | bas | Basa |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | | bak | Bashkir |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | baq | Basque |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | btk | Batak languages |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | bej | Beja; Bedawiyet |
| CDC | | | CDC | | bel | Belarusian |
| | | Preferred Language Individual Characteristic | | | | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | | bem | Bemba |
| CDC | | Preferred Language Individual Characteristic | | | ben | Bengali |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | ber | Berber (Other) |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | bho | Bhojpuri |
| CDC | | Preferred Language Individual Characteristic | CDC | 20080708 | bih | Bihari |
| CDC | | | CDC | 20080708 | | Bikol |
| | | | | | bik | |
| CDC | | Preferred Language Individual Characteristic | CDC | 20080708 | bin | Bini; Edo |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | bis | Bislama |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | byn | Blin; Bilin |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | zbl | Blissymbols; Blissymbolics; Bliss |
| CDC | | Preferred Language Individual Characteristic | CDC | | nob | Bokmål, Norwegian; Norwegian Bokmål |
| CDC | | | CDC | | | |
| | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | | | bos | Bosnian |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | | bra | Braj |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | bre | Breton |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | bug | Buginese |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | | bul | Bulgarian |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | | | Buriat |
| | | | | | bua | |
| CDC | | Preferred Language Individual Characteristic | CDC | | bur | Burmese |
| CDC | | Preferred Language Individual Characteristic | CDC | | cad | Caddo |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | cat | Catalan; Valencian |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | | cau | Caucasian (Other) |
| CDC | | Preferred Language Individual Characteristic | CDC | | ceb | Cebuano |
| | | | | | | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | cel | Celtic (Other) |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | cai | Central American Indian (Other) |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | | khm | Central Khmer |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | chg | Chagatai |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | cmc | Chamic languages |
| CDC | | Preferred Language Individual Characteristic | CDC | | cha | Chamorro |
| | | | | | | |
| CDC | | Preferred Language Individual Characteristic | CDC | | che | Chechen |
| CDC | | Preferred Language Individual Characteristic | CDC | 20080708 | chr | Cherokee |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | chy | Cheyenne |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | chb | Chibcha |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | | nya | Chichewa; Chewa; Nyanja |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | chi | Chinese |
| | | | | | | |
| CDC | | Preferred Language Individual Characteristic | CDC | | chn | Chinook jargon |
| CDC | | Preferred Language Individual Characteristic | CDC | | chp | Chipewyan; Dene Suline |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | cho | Choctaw |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | chu | Church Slavic; Old Slavonic; Church Slavonic; Old Bulgarian; Old Church Slavonic |
| 0.00 | | | 000 | 00000700 | | |
| CDC | | Preferred Language Individual Characteristic | CDC | | chk | Chuukese |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | | chv | Chuvash |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | nwc | Classical Newari; Old Newari; Classical Nepal Bhasa |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | | SVC | Classical Syriac |
| CDC | | Preferred Language Individual Characteristic | CDC | | cop | Coptic |
| | | | | | | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | | cor | Cornish |
| CDC | | Preferred Language Individual Characteristic | CDC | | COS | Corsican |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | cre | Cree |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic | CDC | 20080708 | mus | Creek |
| | | | · | | | · |

| | | Supplemental Data Ele | | | |
|-----|---|-----------------------|----------------------|------------|---|
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | crp | Creoles and pidgins (Other) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | cpe | Creoles and pidgins, English based (Other) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | | 20080708 | cpf | Creoles and pidgins, French-based (Other) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | cpp | Creoles and pidgins, Portuguese-based (Other) |
| CDC | | CDC | 20080708 | crh | Crimean Tatar; Crimean Turkish |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | hrv | Croatian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | cus | Cushitic (Other) |
| CDC | | CDC | 20080708 | cus | Czech |
| | | CDC | | dak | Dakota |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | | 20080708 | | |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | dan | Danish |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | dar | Dargwa |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | del | Delaware |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | din | Dinka |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | div | Divehi; Dhivehi; Maldivian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | doi | Dogri |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | dgr | Dogrib |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | dra | Dravidian (Other) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | dua | Duala |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | dum | Dutch, Middle (ca.1050-1350) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | dut | Dutch; Flemish |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | dyu | Dyula |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | dzo | Dzongkha |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | frs | Eastern Frisian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | efi | Edstern Frisian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | | |
| | | | 20080708 | egy eka | Egyptian (Ancient) Ekajuk |
| CDC | | CDC | | | |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | elx | Elamite |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | eng | English |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | enm | English, Middle (1100-1500) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | ang | English, Old (ca.450-1100) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | myv | Erzya |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | еро | Esperanto |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | est | Estonian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | ewe | Ewe |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | ewo | Ewondo |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | fan | Fang |
| CDC | | CDC | 20080708 | fat | Fanti |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | fao | Faroese |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | fii | Filian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | fil | Filipino; Pilipino |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | fin | Finnish |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | fiu | Finno-Ugrian (Other) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | fon | Fon |
| CDC | | | | | |
| | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | fre | French |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | frm | French, Middle (ca.1400-1600) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | fro | French, Old (842-ca.1400) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | fur | Friulian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | ful | Fulah |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | gaa | Ga |
| CDC | | CDC | 20080708 | gla | Gaelic; Scottish Gaelic |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | car | Galibi Carib |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | glg | Galician |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lug | Ganda |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | gay | Gayo |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | gba | Gbaya |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | gez | Geez |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | geo | Georgian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | ger | German |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | gmh | German, Middle High (ca.1050-1500) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | goh | German, Old High (ca.750-1050) |
| CDC | | CDC | | | Germanic (Other) |
| | 3.3 | CDC | 20080708 20080708 | gem | Gibertese |
| CDC | | | | gil | |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | gon | Gondi |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | gor | Gorontalo |
| | | | | | |

| | | | | | ements (SDE) Value S | els | |
|--|--|--|---|--|---|--|---|
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | got | Gothic |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | grb | Grebo |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | Greek, Ancient (to 1453) |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | Greek, Modern (1453-) |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | 0 | Guarani |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | Gujarati |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | Gwich'in |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | Haida |
| | | | | | | - | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | Haitian; Haitian Creole |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | Hausa |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | - | Hawaiian |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | heb | Hebrew |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | her | Herero |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | hil | Hiligaynon |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | him | Himachali |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | hin | Hindi |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | Hiri Motu |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | Hittite |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | - | Hmong |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | Hungarian |
| | | | | | | | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | Hupa |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | lban |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | ice | Icelandic |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | ldo |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | ibo | Igbo |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | ijo | ljo languages |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | ilo | lloko |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | smn | Inari Sami |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | Indic (Other) |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | | 20080708 | | Indo-European (Other) |
| CDC | | | Individual Characteristic | | 20080708 | | Indonesian |
| | | | | | | | |
| | 2.16.840.1.114222.4.11.831 | Preferred Language | | | | | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | inh | Ingush |
| CDC CDC | 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 | Preferred Language Preferred Language | Individual Characteristic Individual Characteristic | CDC CDC | 20080708 20080708 | inh ina | Ingush Interlingua (International Auxiliary Language Association) |
| CDC CDC CDC | 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 | Preferred Language Preferred Language Preferred Language | Individual Characteristic Individual Characteristic Individual Characteristic | CDC CDC CDC | 20080708 20080708 20080708 | inh ina ile | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental |
| CDC CDC CDC CDC | 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 | Preferred Language Preferred Language Preferred Language Preferred Language | Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic | CDC CDC CDC CDC CDC | 20080708 20080708 20080708 20080708 | inh ina ile iku | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental Inuktitut |
| CDC CDC CDC CDC CDC CDC | 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 | Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language | Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic | CDC CDC CDC CDC CDC CDC | 20080708 20080708 20080708 20080708 20080708 20080708 | inh ina ile iku ipk | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental Inuktitut Inupiaq |
| CDC CDC CDC CDC CDC CDC CDC | 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 | Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language | Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic | CDC CDC CDC CDC CDC CDC CDC CDC | 20080708 20080708 20080708 20080708 20080708 20080708 20080708 | inh ina ile iku ipk ira | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental Inuktitut Inupiaq Iranian (Other) |
| CDC CDC CDC CDC CDC CDC CDC CDC CDC | 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 | Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language | Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic | CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 | inh ina ile iku ipk ira gle | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental Inuktitut Inupiaq Iranian (Other) Irish |
| CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 | Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language | Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic | CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | 20080708 20080708 20080708 20080708 20080708 20080708 20080708 | inh ina ile iku ipk ira gle | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental Inuktitut Inupiaq Iranian (Other) |
| CDC CDC CDC CDC CDC CDC CDC CDC CDC | 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 | Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language | Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic | CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 | inh ina ile iku ipk ira gle mga | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental Inuktitut Inupiaq Iranian (Other) Irish |
| CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 | Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language | Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic | CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 | inh ile iku ipk ira gle mga sga | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental Inukitut Inupiaq Iranian (Other) Irish Irish, Middle (900-1200) |
| CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 | Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language Preferred Language | Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic Individual Characteristic | CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 | inh ina ile iku ipk ira gle mga sga iro | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental Inuktitut Inupiaq Irranian (Other) Irrish Irrish, Middle (900-1200) Irrish, Old (to 900) |
| CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 | Preferred Language Preferred Language | Individual Characteristic Individual Characteristic | CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 | inh ina ile iku ipk ira gle mga sga iro ita | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental Inupiaq Iranian (Other) Irish Middle (900-1200) Irish, Old (to 900) Iriquoian languages Italian |
| CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 2.16.840.1.114222.4.11.831 | Preferred Language Preferred Language | Individual Characteristic Individual Characteristic | CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 | inh ina ile iku ipk ira gle gle sga iro ita jpn | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental Inupiaq Iranian (Other) Irish Irish, Middle (900-1200) Irish, Old (to 900) Iroquoian languages Italian Japanese |
| CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | $\begin{array}{c} 2.16.840.1.114222.4.11.831\\ 2.16.840.1.840.1.114222.4.11.831\\ 2.16.840.1.840.1.840\\ 2.16.840.1.840\\ 2.16.$ | Preferred Language Preferred Language | Individual Characteristic Individual Characteristic | CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 | inh ina ile iku ipk ira gle gle gga iro ita jpn jav | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental Inuktitut Inupiaq Iranian (Other) Irish Middle (900-1200) Irish, Old (to 900) Irish, Old (to 900) Iroquoian languages Italian Japanese Javanese |
| CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | $\begin{array}{l} 2.16.840.1.114222.4.11.831\\ 2.16.840.1.840\\ 2.16.840.1.114222.4.11.831\\ 2.16.84$ | Preferred Language Preferred Language | Individual Characteristic Individual Characteristic | CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 | inh ina ile iku ipk ira gle mga sga iro ita jpn jav jrb | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental Inuktitut Inupiaq Iranian (Other) Irish Irish, Middle (900-1200) Irish, Old (to 900) Iroquoian languages Italian Japanese Javanese Judeo-Arabic |
| CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | $\begin{array}{l} 2.16.840.1.114222.4.11.831\\ 2.16.840.1.840\\ 2.16.840.1.114222.4.11.831\\ 2.16.84$ | Preferred Language Preferred Language | Individual Characteristic Individual Characteristic | CDC CDC CDC CDC CDC CDC CDC CDC | 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 | inh ina ile iku ipk ira gle mga sga iro ita jpn jav jrb | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental Inuktitut Inupiaq Iranian (Other) Irish Middle (900-1200) Irish, Middle (900-1200) Irish, Old (to 900) Iroquoian languages Italian Japanese Javanese Judeo-Arabic Judeo-Persian |
| CDC CDC CDC CDC CDC CDC CDC CDC CDC CDC | $\begin{array}{l} 2.16.840.1.114222.4.11.831\\ 2.16.840.1.840\\ 2.16.840.1.114222.4.11.831\\ 2.16.84$ | Preferred Language Preferred Language | Individual Characteristic Individual Characteristic | CDC CDC CDC CDC CDC CDC CDC CDC | 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 20080708 | inh ina ile iku ipk ira gle mga sga iro ita jpn jav jrb jpr kbd | Ingush Interlingua (International Auxiliary Language Association) Interlingue; Occidental Inupiaq Iranian (Other) Irish Irish, Middle (900-1200) Irish, Old (to 900) Irish, Old (to 900) Iriquoian languages Italian Japanese Javanese Judeo-Arabic Judeo-Persian Kabardian |
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| | | Supplemental Data Ele | | | |
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| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | | 20080708 | kik | Kikuyu; Gikuyu |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kmb | Kimbundu |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kin | Kinyarwanda |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kir | Kirghiz; Kyrgyz |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | tlh | Klingon; tlhIngan-Hol |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kom | Komi |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kon | Kongo |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kok | Konkani |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kor | Korean |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kos | Kosraean |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kpe | Kpelle |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kro | Kru languages |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kua | Kuanyama; Kwanyama |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kum | Kumyk |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kur | Kurdish |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kru | Kurukh |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | kut | Kutenai |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lad | Ladino |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lah | Lahnda |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | | 20080708 | lam | Lamba |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | day | Land Dayak languages |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lao | Land Dayak languages |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lat | Latin |
| CDC | | CDC | 20080708 | | Latvian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lav | Latvian |
| | | | | lez | Lezgnian Limburgan; Limburger; Limburgish |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lim | |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lin | Lingala |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lit | Lithuanian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | jbo | Lojban |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nds | Low German; Low Saxon; German, Low; Saxon, Low |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | dsb | Lower Sorbian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | loz | Lozi |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lub | Luba-Katanga |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lua | Luba-Lulua |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lui | Luiseno |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | smj | Lule Sami |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lun | Lunda |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | | 20080708 | luo | Luo (Kenya and Tanzania) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lus | Lushai |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | ltz | Luxembourgish; Letzeburgesch |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mac | Macedonian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mad | Madurese |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mag | Magahi |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mai | Maithili |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mak | Makasar |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mlg | Malagasy |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | may | Malay |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mal | Malayalam |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mlt | Maltese |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mnc | Manchu |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mdr | Mandar |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | man | Mandingo |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mni | Maniguri |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mno | Manobo languages |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | glv | Manx |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mao | Manx |
| CDC | | CDC | | | Mapudungun; Mapuche |
| | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | | 20080708 | arn | Mapudungun; Mapuche Marathi |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | - | |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | chm | Mari Marehallese |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mah | Marshallese |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mwr | Marwari |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mas | Masai |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | myn | Mayan languages |
| | | | | | |

| 0.0.0 | | Supplemental Data Ele | | | |
|-------|--|-----------------------|----------|------------|--|
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | | 20080708 | men | Mende |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mic | Mi'kmaq; Micmac |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | min | Minangkabau |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mwl | Mirandese |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | moh | Mohawk |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mdf | Moksha |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mol | Moldavian; Moldovan |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | lol | Mongo |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mon | Mongolian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mkh | Mon-Khmer (Other) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mos | Mossi |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mul | Multiple languages |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | mun | Munda languages |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nah | Nahuatl languages |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nau | Nauru |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nav | Navajo; Navaho |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nde | Ndebele, North; North Ndebele |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nbl | Ndebele, South; South Ndebele |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | ndo | Ndonga |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nap | Neapolitan |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | new | Nepal Bhasa; Newari |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nep | Nepali |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nia | Nias |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nic | Niger-Kordofanian (Other) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | ssa | Nilo-Saharan (Other) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | ssa niu | Nilean |
| CDC | | | | | NKo |
| | | CDC | 20080708 | nqo | |
| CDC | | CDC | 20080708 | ZXX | No linguistic content; Not applicable |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nog | Nogai |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | non | Norse, Old |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nai | North American Indian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | frr | Northern Frisian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | sme | Northern Sami |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nor | Norwegian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nno | Norwegian Nynorsk; Nynorsk, Norwegian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nub | Nubian languages |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nym | Nyamwezi |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nyn | Nyankole |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nyo | Nyoro |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nzi | Nzima |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | oci | Occitan (post 1500); Provençal |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | arc | Official Aramaic (700-300 BCE); Imperial Aramaic (700-300 BCE) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | oji | Ojibwa |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | ori | Óriya |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | orm | Oromo |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | osa | Osage |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | OSS | Ossetian; Ossetic |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | oto | Otomian languages |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | pal | Pahlavi |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | pau | Palauan |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | pau pli | Pali |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | pam | Pampanga; Kapampangan |
| CDC | | CDC | 20080708 | | |
| | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | | | pag | Pangasinan Panjabi: Punjabi |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | pan | Panjabi; Punjabi Panjamanta |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | pap | Papiamento |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | paa | Papuan (Other) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | nso | Pedi; Sepedi; Northern Sotho |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | per | Persian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | peo | Persian, Old (ca.600-400 B.C.) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | phi | Philippine (Other) |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | phn | Phoenician |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | pon | Pohnpeian |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | pol | Polish |
| CDC | 2.16.840.1.114222.4.11.831 Preferred Language Individual Characteristic | CDC | 20080708 | por | Portuguese |
| | | | | | |

| CDC 2.8 4.8.4.1.1022.1.1.8.1 Partic anguage Induced Construction (DC) 2007 Partic anguage CC 2.8.4.4.1.1022.1.1.8.1 Partic anguage Partic anguage Partic anguage CC 2.8.4.4.1.1022.1.1.1.8.1 Partic anguage Partic anguage Partic anguage CC 2.8.4.4.1.1022.1.1.1.8.1 Partic anguage< | | | Supplemental Dat | a Elements (SDE) Valu | ue Jeis | |
|---|-----|----------------------------|--|-----------------------|---------|-------------------------------|
| Dick 21.88.64 (11922.41.88) Perspect Mode Perspect Mode Perspect Mode Perspect Mode CC 21.88.64 (11922.41.88) Perspect Mode Construct Perspect Mode Perspect Mode CC 21.88.64 (11922.41.88) Perspect Mode Construct Perspect Mode Perspect Mode CC 21.88.64 (1192.41.88) Perspect Mode Construct Perspect Mode Perspect Mode CC 21.88.64 (1192.41.88) Perspect Mode Construct Perspect Mode Perspect Mode CC 21.88.64 (1192.41.88) Perspect Mode Construct Perspect Mode Perspect Mode CC 21.88.64 (1192.41.88) Perspect Mode Construct Perspect Mode Perspect Mode CC 21.88.64 (1192.41.88) Perspect Mode Construct Perspect Mode Perspect Mode CC 21.88.64 (1192.41.88) Perspect Mode Construct Mode Perspect Mode Perspect Mode CC 21.88.64 (1192.41.88) Perspect Mode Perspect Mode Perspect Mode Perspect Mode CC 21.88 | CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | pra | Prakrit languages |
| DDC 2.886.01 11.002_11.1162 Prime Lengage Points Points Points DC 2.866.01 10.002 Points < | CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | pro | Provençal, Old (to 1500) |
| CDC 2.6660.111022.11.02 Priored Lengage Model Chanceres CCC 200070 10 Decimal CDC 2.6661.11022.11.02 Priored Lengage Model Chanceres CCC 200070 10 Decimal CDC 2.6661.11022.11.02 Priored Lengage Model Chanceres CCC 200070 10 Priored Priored Lengage Model Chanceres CDC 2.6661.11022.11.02 Priored Lengage Model Chanceres CCC 200070 10 Priored | CDC | 2.16.840.1.114222.4.11.831 | | 20080708 | pus | Pushto; Pashto |
| CDC 21640.111022.411.03 Project Longage Project Longage <td>CDC</td> <td>2.16.840.1.114222.4.11.831</td> <td></td> <td>20080708</td> <td>aue</td> <td>Quechua</td> | CDC | 2.16.840.1.114222.4.11.831 | | 20080708 | aue | Quechua |
| DDC 2 18.86.11.022.411.81 PetersLagging PetersLagg | | | | 20080708 | | Rajasthani |
| CDC 218.801.11422.41.831 Peterding Logging COC 2000778 4pt Peterding Logging Cock CC 1.14.801.11422.41.831 Peterding Logging Cock 200078 4pt Cock < | | | | | | |
| CDC 21.848.01 122.24.11620 Peterder Language CDC 2000/08 Benerge Meterder Frontier (Control (Benerge Language) CDC 24.840.01 122.411 Peterder Language Indianal Control (Control (C | | | | | | |
| DCC 218.86.114262.41187 Pattered Lagolage Instance Accessence DCC 200778 Data Dimension DCC 12.86.211422.41187 Pattered Lagolage Dimension Dimension Dimension DCC | | | | | | |
| CDC 21.08.011.1022.41.180 Pedmed Languag Bidekal Languag Defend Lan | | | | | | |
| CDC 21,888.1114222.411881 Perfered Language Per | | | | | | |
| CDC 21.08.01.114/22.41.183 Perfered Language Deficial Language Cont Rama CDC 1.08.00.1114/22.41.183 Perfered Language Deficial Language< | | | | | | |
| CDC 21.88.01.11422.411.81 Pedret Language Individue Characteristic CDC 200007/8 4.m Runda CDC 21.88.01.11422.411.81 Pedret Language Individue Characteristic CDC 200007/8 4.d Runda CDC 21.88.01.11422.411.81 Pedret Language Individue Characteristic CDC 200007/8 4.d Samta Anarce CDC 21.88.01.11422.411.81 Pedret Language Individue Characteristic CDC 200007/8 4.d Sarta Anarce CDC 21.88.01.11422.411.81 Pedret Language Individue Characteristic CDC 20007/8 4.d Sarta Anarce CDC 21.88.01.11422.411.81 Pedret Language Individue Characteristic CDC 20007/8 4.d Sarta Anarce CDC 21.88.01.11422.411.81 Pedret Language Individue Characteristic CDC 20007/8 4.d Sarta Anarce CDC 21.88.01.11422.411.81 Pedret Language Individue Characteristic CDC 20007/8 4.d Sarta Anarce CDC 21.88.01.11422.411.81 Pedret Language Individue Characteristic CDC 20007/8 < | | | | | | |
| DDC 2.16.80.11422.411.81 Peters Language Involute CDC 2000778 4.04 Status DCC 2.16.80.11422.411.81 Peters Language Involute CDC 2000778 4.04 Saluta | | | | | - | |
| CDC 21.88.0.11422.411.831 Pertent Language Munksian Chancements. CDC. 2000770 4.00 Samuthan Marcaine. CDC 21.88.0.11422.411.831 Pertent Language Munksian Chancements. CDC. 2000770 4.00 Samuthan Marcaine. CDC 21.88.0.11422.411.831 Pertent Language Munksian Chancements. CDC. 2000770 4.00 Samuthan Marcaine. CDC 21.88.0.11422.411.831 Pertent Language Munksian Chancements. CDC. 2000778 4.00 Samuthan Marcaine. CDC 21.88.0.11422.411.831 Pertent Language Munksian Chancements. CDC. 2000778 4.00 Samuthan Marcaine. CDC 21.88.0.11422.411.831 Pertent Language Munksian Chancements. CDC. 2000778 4.00 Samuthan Marcaine. CDC 21.88.0.11422.411.811 Pertent Language Munksian Chancements. CDC. 2000778 4.00 Samuthan Marcaine. CDC 21.88.0.11422.411.811 Pertent Language Munksian Chancements. CDC. 2000778 4.00 Samuthan Marcaine. CDC 21.88.0.11422.411.811 Pertent Language Munksian Chancements. | | | | | | |
| CDC 216.840.11422.4183 Prefered Language Mokdad Chasteprine. (CDC 200073 and Samutane Aramain: CDC 216.840.11422.41183 Prefered Language Mokdad Chasteprine. (CDC 200073 Dr Samutanes Aramain: CDC 216.840.11422.41183 Prefered Language Mokdad Chasteprine. (CDC 200073 Dr Samutanes Aramain: CDC 216.840.11422.41183 Prefered Language Mokdad Chasteprine. (CDC 200073 Dr Samutanes Aramain: CDC 216.840.11422.41183 Prefered Language Mokdad Chasteprine. (CDC 200078 Dr Samutanes Aramain: CDC 216.840.11422.41183 Prefered Language Mokdad Chasteprine. (CDC 200078 Dr Samutanes Aramain: CDC 216.840.11422.41183 Prefered Language Mokdad Chasteprine. (CDC 200078 Dr Samutanes Aramain: CDC 216.840.11422.41183 Prefered Language Mokdad Chasteprine. (CDC 200078 Dr Samutanes Aramain: CDC 216.840.11422.41183 Prefered Language Mokdad Chasteprine. (CDC 200078 Dr Samutanes Aramain: CDC 216.840.11422.41183 Prefered Lang | | | | | | |
| CDC 216401-11422-41138 Prefere Language Modual Characteria: CDC 2000708 mm Sarra inguages (Oren) CDC 216401-11422-41188 Prefere Language Modual Characteria: CDC 2000708 He Sandaw CDC 216401-11422-41188 Prefere Language Modual Characteria: CDC 2000708 He Sandaw CDC 2164041-11422-41188 Prefere Language Modual Characteria: CDC 2000708 He Sanda CDC 2164041-11422-41188 Prefere Language Modual Characteria: CDC 2000708 He Sanda CDC 2164041-11422-41188 Prefere Language Modual Characteria: CDC 2000708 He Sanda CDC 2164041-11422-41188 Prefere Language Modual Characteria: CDC 2000708 He Sanda CDC 2164041-11422-41188 Prefere Language Modual Characteria: CDC 2000708 He Sandaw CDC 2164041-11422-41188 Prefere Language Modual Characteria: CDC 2000708 He Sandaw CDC 2164041-11422-41188 Prefere Language Modual Characteria: CDC 2000708 He Sandaw </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| CDC 216.480.1142/22.411.83 Preferred Language, Individad Characterise, CDC 20007/8 smc Sarroan CDC 216.480.1142/22.411.83 Preferred Language, Individad Characterise, CDC 20007/8 smc Sarroan CDC 216.480.1142/22.411.83 Preferred Language, Individad Characterise, CDC 20007/8 smc Sarroan CDC 216.480.1142/22.411.83 Preferred Language, Individad Characterise, CDC 20007/8 smc Sardrian CDC 216.480.1142/22.411.83 Preferred Language, Individad Characterise, CDC 20007/8 smc Sardrian CDC 216.480.1142/22.411.83 Preferred Language, Individad Characterise, CDC 20007/8 smc Sardrian CDC 216.480.1142/2.411.83 Preferred Language, Individad Characterise, CDC 20007/8 smc Sardrian CDC 216.480.1142/2.411.83 Preferred Language, Individad Characterise, CDC 20007/8 smc Sardrian CDC 216.480.1142/2.411.83 Preferred Language, Individad Characterise, CDC 20007/8 smc Sardrian CDC 216.480.1142/2.411.83 Preferred Langua | | | | | | |
| CDC 216.89.1114222411.83 Petered Language Individue Characteriste CDC 2008708 Lag Sargo CDC 216.89.1114222411.83 Petered Language Individue Characteriste CDC 2008708 Lag Sargo CDC 216.89.1114222411.83 Petered Language Individue Characteriste CDC 2008708 Lag Sardonian CDC 216.89.1114222411.83 Petered Language Individue Characteriste CDC 2008708 Lag Sardonian CDC 216.89.1114222411.83 Petered Language Individue Characteriste CDC 2008708 Lag Sardonian CDC 216.89.1114222411.83 Petered Language Individue Characteriste CDC 2008708 Lag Sardonian CDC 216.89.111422411.831 Petered Language Individue Characteriste CDC 2008708 Lag Sardonian CDC 216.89.111422411.831 Petered Language Individue Characteriste CDC 2008708 Lag Sardonian CDC 216.89.111422411.831 | | | | | | |
| CDC 216.880.114222 41.831 Preferred Language Inducated Constraints ECC 2000708 Engl Sangle CDC 216.880.114222 41.831 Preferred Language Inducated Constraints CDC 2000708 Ear Sandle CDC 216.880.114222 41.831 Preferred Language Inducated Constraints CDC 2000708 Ear Sandle CDC 216.880.114222 41.831 Preferred Language Inducated Constraints CDC 2000708 Ear Sandle Sandle CDC 216.880.114222 41.831 Preferred Language Inducated Constraints CDC 2000708 Ear Sandle Sandle CDC 216.880.114222 41.831 Preferred Language Inducated Constraints CDC 2000708 Ear Sandle Sandle CDC 2000708 Ear Sandle CDC 2000708 Ear Sandle Sandle CDC <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | |
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| | 000 | 2.10.040.1.114222.4.11.031 | | 20000700 | yaw | emos coman, rionamio, rioalan |

| | | | plemental Data Elements (SDE) Value | Sets | |
|-----|----------------------------|---|-------------------------------------|------|------------------------------|
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | syr | Syriac |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tgl | Tagalog |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tah | Tahitian |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tai | Tai (Other) |
| | | | | | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tgk | Tajik |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tmh | Tamashek |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tam | Tamil |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tat | Tatar |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tel | Telugu |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | ter | Tereno |
| CDC | | | 20080708 | | |
| | 2.16.840.1.114222.4.11.831 | | | tet | Tetum |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tha | Thai |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tib | Tibetan |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tig | Tigre |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tir | Tigrinya |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tem | Timne |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tiv | Tiv |
| | | | | | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tli | Tlingit |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tpi | Tok Pisin |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tkl | Tokelau |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tog | Tonga (Nyasa) |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | ton | Tonga (Tonga Islands) |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tsi | Tsimshian |
| | | | | _ | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tso | Tsonga |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tsn | Tswana |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tum | Tumbuka |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tup | Tupi languages |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tur | Turkish |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | ota | Turkish, Ottoman (1500-1928) |
| | | | 20080708 | _ | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | | tuk | Turkmen |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tvl | Tuvalu |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | tyv | Tuvinian |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | twi | Twi |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | udm | Udmurt |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | uga | Ugaritic |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | | Uighur; Uyghur |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | | Ukrainian |
| | | | | | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | | Umbundu |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | mis | Uncoded languages |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | und | Undetermined |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | hsb | Upper Sorbian |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | | Urdu |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | | Uzbek |
| CDC | | | | | |
| | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | vai | Vai |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | ven | Venda |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | vie | Vietnamese |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | vol | Volapük |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | vot | Votic |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | wak | Wakashan languages |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | wal | Walamo |
| | | | | | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | wln | Walloon |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | war | Waray |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | was | Washo |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | wel | Welsh |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | fry | Western Frisian |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | wol | Wolof |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | xho | Xhosa |
| | | | | | |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | sah | Yakut |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | yao | Yao |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | yap | Yapese |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | yid | Yiddish |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | vor | Yoruba |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language Individual Characteristic CDC | 20080708 | | Yupik languages |
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| CDC | 2.10.040.1.114222.4.11.031 | | • | | |

| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | zap | Zapotec |
|-----|----------------------------|--------------------|---------------------------|-----|----------|-----|--|
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | zza | Zaza; Dimili; Dimli; Kirdki; Kirmanjki; Zazaki |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | zen | Zenaga |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | zha | Zhuang; Chuang |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | zul | Zulu |
| CDC | 2.16.840.1.114222.4.11.831 | Preferred Language | Individual Characteristic | CDC | 20080708 | zun | Zuni |