

**MEASURE #8: QUALITY OF LIFE ASSESSMENT FOR PATIENTS WITH PRIMARY HEADACHE DISORDERS**

*Headache  
Outcome Measure*

**Measure Description**

Percentage of patients with a diagnosis of primary headache disorder whose health related quality of life (HRQoL) was assessed with a tool(s)\* during at least two visits\* during the 12 month measurement period AND whose health related quality of life score stayed the same or improved\*\*\*.

**Measure Components**

<p><b>Numerator Statement</b></p>	<p>Patient whose health related quality of life was assessed with a tool(s)* during at least two visits* during the 12 month measurement period AND whose health related quality of life score** stayed the same or improved***.</p> <p>* List quality of life (QoL) tools: Migraine Disability Assessment (MIDAS) and PedMIDAS(proprietary); Headache Impact Test-6 (HIT-6)(proprietary); Migraine Specific Quality of Life Tool (MSQ); Neck Disability Index (NDI)-used for cervicogenic headaches; McGill Questionnaire.</p> <p>** Timing Between Visits: Must be separated by at least 90 days for MIDAS and at least 4 weeks for any other tool.</p> <p>*** See specific tools for scoring methods related to improvement or stayed the same: Each tool defines improvement differently based on their scoring methodology. For example, when using the MIDAS improvement would be indicated by reduction in MIDAS disability grade and in the HIT-6 a reduction in the number of days with disability overtime indicates improvement.</p>
<p><b>Denominator Statement</b></p>	<p>All patients with a diagnosis with a primary headache disorder*.</p> <p>* Primary Headache: For the purpose of this measure this includes the following types of headache:  <b>Migraine:</b> Migraine without aura, migraine with aura, childhood periodic syndromes that are commonly precursors of migraine, retinal migraine, complications of migraine, probable migraine  <b>Tension-Type Headache (TTH):</b> Infrequent episodic TTH, frequent episodic TTH, chronic TTH, probable TTH.  <b>Cluster Headache (CH) and Other Trigeminal Autonomic Cephalgias:</b> Cluster headache, paroxysmal hemicrania, short-lasting unilateral neuralgia form headache attacks with conjunctival injection and tearing (SUNCT), probable trigeminal autonomic cephalgia  <b>Other Primary Headaches:</b> Primary stabbing headache, primary cough headache, primary exertional headache, primary headache associated with sexual activity, hypnic headache, primary thunderclap headache, hemicrania continua, new daily-persistent headache.</p>
<p><b>Denominator Exceptions</b></p>	<p>Exceptions:</p> <ul style="list-style-type: none"> <li>• Medication exception for not assessing for QoL (i.e., patient has a cognitive or neuropsychiatric impairment that impairs his/her ability to complete the HRQoL survey)</li> <li>• Patient exception for not assessing for QoL (i.e., patient has the inability to read and/or write in order to complete the HRQoL questionnaire)</li> </ul>

	<ul style="list-style-type: none"> <li>System exception for not assessing for QoL (i.e., patient does not have insurance to cover the cost of the QoL assessment)</li> </ul>
<p><b>Supporting Guideline &amp; Other References</b></p>	<p>This is an outcome measure. There are limited specific guideline recommendations that could be cited. However, this is a strong consensus by the expert Work Group that HRQoL needs to be monitored as a PRO measure.</p> <p><b>The following clinical recommendation statements are quoted verbatim from the referenced clinical guidelines or evidence papers and represent the evidence base for the measure:</b></p> <ul style="list-style-type: none"> <li>Discuss the benefits and risks of prophylactic treatment for migraine with the person, taking into account the person’s preference, comorbidities, risk of adverse events and the impact of the headache on their QoL. (No level of evidence)<sup>1</sup></li> <li>Compared with people without headache and to people with other chronic conditions, people with headache report compromised physical, mental, and social functioning, particularly those with a high frequency of attack. People with headache reported diminished functioning and well-being on all eight domains as compared with people without headache .<sup>2</sup></li> </ul> <p><sup>1</sup> NICE Headaches: Diagnosis and management of headaches in young people and adults. National Clinical Guideline Centre on behalf of the National Institute for Health and Clinical Excellence (NICE) September 2012; NICE clinical guideline 150</p> <p><sup>2</sup>Terwindt GM, Ferrari MD, Tihuis M et al. The impact of migraine on quality of life in the general population: The GEM study <i>Neurology</i> 2000 55:624-629</p>
	<p><b>Rationale for the Measure</b></p> <p>This measure establishes an initial or baseline QoL score from which the patient should use the same QoL tool/questionnaire at least one additional time during the measurement period. The two assessments must be separated by at least 90 days for MIDAS and at least 4 weeks for any other tool.<sup>3</sup> It is expected that the QoL score or ranking will stay the same or improve in order for this measure to be successfully completed.</p> <p><b>Gap in Care</b></p> <p>Migraine impacts a person’s function in different activity domains during attacks. HRQoL is affected both during and after attacks.<sup>1</sup> Migraine reduces HRQoL more than osteoarthritis or diabetes.<sup>2</sup> In the US and UK, subjects with migraine had lower scores (<math>p &lt; 0.001</math>) on both the Mental Component Score (MCS-12) and Physical Component Score (PCS-12) than their non-migraine counterparts. Significant differences were maintained after controlling for gender, age, and education. Migraine and depression were highly correlated (adjusted prevalence ratio 2.7, 95% CI 2.1 to 3.5). Further, migraine and depression are highly associated with attack frequency (for MCS-12 and PCS-12) and disability (MCS-12). Subjects with migraine selected from the general population have lower HRQoL as measured by the Short Form (SF-morbid) and each exerts a significant and independent influence on HRQoL.<sup>3</sup></p> <p><b>Opportunity for Improvement</b></p> <p>This is the first clinician level patient reported outcome measure (PROM) focused on maintaining or improving the QoL of patients with primary headache disorders. The Work Group felt that even though the majority evidence is focused on migraine that patients with other primary headache disorders could greatly benefit from the utilization of this measure.</p>

	<p>The use of PROMs to investigate levels of disability and HRQoL are increasingly being used in headache services research. HRQoL and disability are positively impacted by treatment interventions.<sup>4</sup> Health care professionals often do not recognize the degree and the scope of functional impairment imposed by migraines. There is a missed opportunity for clinicians to effectively communicate with the patient to understand their headache-related disability and appropriately prescribe acute, prophylactic, or biobehavioral treatments. This measure has the potential to reduce personal and societal costs of headache disorders offering a continuity of care.</p> <p><sup>1</sup>Buse DC, Rupnow MF, Lipton Rb. Assessing and managing all aspects of migraine: migraine attacks, migraine related functional impairment, common comorbidities, and quality of life. <i>Mayo Clin Proc</i> 2009; 84: 422-435</p> <p><sup>2</sup>Buse DC, Manack AN, Fanning KM, et al. Chronic Migraine Prevalence, Disability, and Sociodemographic Factors: Results From the American Migraine Prevalence and Prevention Study. <i>Headache</i>. 2012 Jun 22. doi: 10.1111/j.1526-4610.2012.02223.x. [Epub ahead of print]</p> <p><sup>3</sup>Lipton RB, Hamelsky SW Kolodner KB et al. Migraine, quality of life, and depression A population-based case-control study <i>Neurology</i>, 2000 vol. 55 no. 5 629-635</p> <p><sup>4</sup>D'Amico D, Grazzi L, Usai S, Leonardi M. Disability and quality of life in headache: where are we not and where we are heading. <i>Neurol Sci</i> 2013 34(S1):S1-S5</p>
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### Measure Designation

<b>Measure purpose</b>	<ul style="list-style-type: none"> <li>• Quality improvement</li> <li>• Accountability</li> </ul>
<b>Type of measure</b>	<ul style="list-style-type: none"> <li>• Outcome</li> </ul>
<b>Level of Measurement</b>	<ul style="list-style-type: none"> <li>• Individual practitioner</li> </ul>
<b>Care setting</b>	<ul style="list-style-type: none"> <li>• Outpatient visits</li> </ul>
<b>Data source</b>	<ul style="list-style-type: none"> <li>• Electronic health record (EHR) data</li> <li>• Administrative Data/Claims (inpatient or outpatient claims)</li> <li>• Administrative Data/Claims Expanded (multiple-source)</li> <li>• Paper medical record</li> </ul>

### Technical Specifications: Administrative/Claims Data

Administrative claims data collection requires users to identify the eligible population (denominator) and numerator using codes recorded on claims or billing forms (electronic or paper). Users report a rate based on all patients in a given practice for whom data are available and who meet the eligible denominator criteria. The specifications listed below are those needed for performance calculation.

<b>Denominator (Eligible Population)</b>	<b>ICD-9 and ICD-10 Diagnosis Codes:</b>	
	ICD-9 Code	ICD-10 Code
	346 Migraine	G43 Migraine
	346.0 Migraine with aura	G43.1 Migraine with aura
	346.00 without mention of intractable migraine without mention of status migrainosus	G43.109 Migraine with aura, not intractable, without status migrainosus
	346.01 with intractable migraine, so stated, without mention of status migrainosus	G43.119 Migraine with aura, intractable, without status migrainosus
346.02 without mention of intractable migraine with status migrainosus	G43.101 Migraine with aura, not intractable with status migrainosus	

346.03 with intractable migraine, so stated, with status migrainosus	G43.111 Migraine with aura, intractable with status migrainosus
346.1 Migraine without aura	G43.0 Migraine without aura
346.10 without mention of intractable migraine without mention of status migrainosus	G43.009 Migraine without aura, not intractable without status migrainosus
346.11 with intractable migraine, so stated, without mention of status migrainosus	G43.019 Migraine without aura, intractable without status migrainosus
346.12 without mention of intractable migraine with status migrainosus	G43.001 Migraine without aura, not intractable with status migrainosus
346.13 with intractable migraine, so stated, with status migrainosus	G43.011 Migraine without aura, intractable with status migrainosus
346.2 Variants of migraine, not elsewhere classified	G43.9 Migraine, unspecified
346.20 without mention of intractable migraine without mention of status migrainosus	G43.909 Migraine, unspecified, not intractable without status migrainosus
346.21 with intractable migraine, so stated, without mention of status migrainosus	G43.919 Migraine, unspecified, intractable without status migrainosus
346.22 without mention of intractable migraine with status migrainosus	G43.901 Migraine, unspecified, not intractable with status migrainosus
346.23 with intractable migraine, so stated, with status migrainosus	G43.911 Migraine, unspecified, intractable with status migrainosus
346.3 Hemiplegic migraine	G43.4 Hemiplegic migraine
346.30 without mention of intractable migraine without mention of status migrainosus	G43.409 Hemiplegic migraine, not intractable without status migrainosus
346.31 with intractable migraine, so stated, without mention of status migrainosus	G43.419 Hemiplegic migraine, intractable without status migrainosus
346.32 without mention of intractable migraine with status migrainosus	G43.401 Hemiplegic migraine, not intractable with status migrainosus
346.33 with intractable migraine, so stated, with status migrainosus	G43.411 Hemiplegic migraine, intractable with status migrainosus
346.4 Menstrual migraine	G43.8 Other migraine
346.40 without mention of intractable migraine without mention of status migrainosus	G43.829 Menstrual migraine, not intractable without status migrainosus
346.41 with intractable migraine, so stated, without mention of status migrainosus	G43.839 Menstrual migraine, intractable without status migrainosus
346.42 without mention of intractable migraine with status migrainosus	G43.821 Menstrual migraine, not intractable with status migrainosus
346.43 with intractable migraine, so stated, with status migrainosus	G43.831 Menstrual migraine, intractable with status migrainosus
346.5 Persistent migraine aura without cerebral infarction	G43.5 Persistent migraine aura without cerebral infarction
346.50 without mention of intractable migraine without mention of status migrainosus	G43.509 Persistent migraine aura without cerebral infarction, not intractable without status migrainosus
346.51 with intractable migraine, so stated, without mention of status migrainosus	G43.519 Persistent migraine aura without cerebral infarction, intractable without status migrainosus

346.52 without mention of intractable migraine with status migrainosus	G43.501 Persistent migraine aura without cerebral infarction, not intractable with status migrainosus
346.53 with intractable migraine, so stated, with status migrainosus	G43.511 Persistent migraine aura without cerebral infarction, intractable with status migrainosus
346.6 Persistent migraine aura with cerebral infarction	G43.6 Persistent migraine aura with cerebral infarction
346.60 without mention of intractable migraine without mention of status migrainosus	G43.609 Persistent migraine aura with cerebral infarction, not intractable without status migrainosus
346.61 with intractable migraine, so stated, without mention of status migrainosus	G43.619 Persistent migraine aura with cerebral infarction, intractable without status migrainosus
346.62 without mention of intractable migraine with status migrainosus	G43.601 Persistent migraine aura with cerebral infarction, not intractable with status migrainosus
346.63 with intractable migraine, so stated, with status migrainosus	G43.611 Persistent migraine aura with cerebral infarction, intractable with status migrainosus
346.7 Chronic migraine without aura	G43.7 Chronic migraine without aura
346.70 without mention of intractable migraine without mention of status migrainosus	G43.709 Chronic migraine without aura, not intractable without status migrainosus
346.71 with intractable migraine, so stated, without mention of status migrainosus	G43.719 Chronic migraine without aura, intractable without status migrainosus
346.72 without mention of intractable migraine with status migrainosus	G43.701 Chronic migraine without aura, not intractable with status migrainosus
346.73 with intractable migraine, so stated, with status migrainosus	G43.711 Chronic migraine without aura, intractable with status migrainosus
346.8 Other forms of migraine	G43.8 Other migraine
346.80 without mention of intractable migraine without mention of status migrainosus	G43.809 Other migraine, not intractable without status migrainosus
346.81 with intractable migraine, so stated, without mention of status migrainosus	G43.819 Other migraine, intractable without status migrainosus
346.82 without mention of intractable migraine with status migrainosus	G43.801 Other migraine, not intractable with status migrainosus
346.83 with intractable migraine, so stated, with status migrainosus	G43.811 Other migraine, intractable with status migrainosus
346.9 Migraine unspecified	G43.9 Migraine, unspecified
346.90 without mention of intractable migraine without mention of status migrainosus	G43.909 Migraine, unspecified, not intractable without status migrainosus
346.91 with intractable migraine, so stated, without mention of status migrainosus	G43.919 Migraine, unspecified, intractable without status migrainosus
346.92 without mention of intractable migraine with status migrainosus	G43.901 Migraine, unspecified, not intractable with status migrainosus
346.93 with intractable migraine, so stated, with status migrainosus	G43.911 Migraine, unspecified, intractable with status migrainosus
784 Symptoms involving head and neck	
784.0 Headache	G44.1 Vascular headache, not elsewhere classified R51 Headache

307 Special symptoms or syndromes not elsewhere classified	
307.8 Pain disorders related to psychological factors	
307.81 Tension headache	G44.209 Tension-type headache, unspecified, not intractable
339 Other headache syndromes	
339.0 Cluster headaches and other trigeminal autonomic cephalgias	
339.00 Cluster headache syndrome, unspecified	G44.009 Cluster headache syndrome, unspecified, not intractable
339.01 Episodic cluster headache	G44.019 Episodic cluster headache, not intractable
339.02 Chronic cluster headache	G44.029 Chronic cluster headache, not intractable
339.03 Episodic paroxysmal hemicranias	G44.039 Episodic paroxysmal hemicrania, not intractable
339.04 Chronic paroxysmal hemicranias	G44.049 Chronic paroxysmal hemicrania, not intractable
339.05 Short lasting unilateral neuralgiform headache with conjunctival injection and tearing	G44.059 Short lasting unilateral neuralgiform headache with conjunctival injection and tearing (SUNCT), not intractable
339.09 Other trigeminal autonomic cephalgias	G44.099 Other trigeminal autonomic cephalgias (TAC), not intractable
339.1 Tension type headache	
339.10 unspecified	G44.209 Tension-type headache, unspecified, not intractable
339.11 Episodic tension type headache	G44.219 Episodic tension-type headache, not intractable
339.12 Chronic tension type headache	G44.221 Chronic tension-type headache, intractable G44.229 Chronic tension-type headache, not intractable
339.4 Complicated headache syndromes	
339.41 Hemicrania continua	G44.51 Hemicrania continua
339.42 New daily persistent headache	G44.52 New daily persistent headache (NDPH)
339.43 Primary thunderclap headache	G44.53 Primary thunderclap headache
339.44 Other complicated headache syndrome	G44.59 Other complicated headache syndrome
339.8 Other specified headache syndromes	
339.81 Hypnic headache	G44.81 Hypnic headache
339.82 Headache associated with sexual activity	G44.82 Headache associated with sexual activity
339.83 Primary cough headache	G44.83 Primary cough headache
339.84 Primary exertional headache	G44.84 Primary exertional headache
339.85 Primary stabbing headache	G44.85 Primary stabbing headache
339.89 Other headache syndromes	G44.89 Other headache syndrome

**AND**

**CPT® Evaluation and Management Service Codes:**

**Outpatient:** 99201-5, (Office or other outpatient visit-New Patient);  
99211-5 (Office or other outpatient visit-Established Patient); 99241-5 (Office or Other Outpatient Consultation-New or Established Patient);