



## **AAO32: Standard Benign Positional Paroxysmal Vertigo (BPPV) Management**

**High Priority Status:** Yes / Appropriate Use

**NQF Number:** N/A

### **Measure Description:**

Percentage of patients diagnosed with Benign Positional Paroxysmal Vertigo (BPPV) who received vestibular testing, imaging, and antihistamine or benzodiazepine medications.

### **Instructions:**

This measure is to be submitted a minimum of **once per performance period** for patients diagnosed with benign positional paroxysmal vertigo. This measure may be submitted by clinicians based on the services provided and the measure-specific denominator coding.

### **Denominator:**

All patients diagnosed with posterior canal BPPV.

### **Denominator Note:**

To meet the denominator criteria, a patient a diagnosis of BPPV must be documented during the encounter.

### **Denominator Exclusions:**

Patients whose diagnosis of BPPV was made after vestibular testing, imaging, or antihistamine, benzodiazepine, or vestibular suppressant medications were prescribed are not included in the eligible population for the denominator.

### **Denominator Criteria:**

All patient ages

**AND**

Diagnosis: [BPPV](#)

**AND**

Patient Visit: [Encounter Visit](#)

### **AND NOT**

Diagnosis: [BPPV](#)

**AND**

History of Prior: [Vestibular Testing](#) or [Imaging](#)

**OR**

Current Prescription for: Antihistamine, Benzodiazepine, or Vestibular Suppressant

[For a list of codes that qualify as denominator eligible visits, reference Addendum attached.](#)

### **Numerator:**

A. Patients with BPPV referred for vestibular testing by the encounter provider

B. Patients with BPPV referred, recommended, or ordered a CTA, CT, MRA, or MRI by the encounter provider

C. Patients with BPPV prescribed antihistamine, benzodiazepine, or vestibular suppressant medications by the encounter provider

D. Total patient performance on the 3 above components (Any-or-nothing calculation).

### **Numerator Note:**

Numerator component D: Total patient performance on the 3 above components (Any-or-nothing calculation) is used for MIPS scoring purposes.

INVERSE MEASURE - A lower calculated performance rate for this measure indicates better clinical care or control. The "Performance Not Met" numerator option for this measure is the representation of the better clinical quality or control. Submitting that numerator option will produce a performance rate that trends closer to 0%, as quality increases. For inverse measures, a rate of 100% means all of the denominator eligible patients did not receive the appropriate care or were not in proper control.

**Denominator Exceptions:**

For numerator component A, patients may be excluded if they have:

- Negative Dix-Hallpike maneuver
- Dizziness that lasts longer than one minute
- Postural or gait abnormalities
- Transient dizziness that is unresponsive to repositioning

For numerator component B, patients may be excluded if they have:

- Atypical BPPV (anterior canal, relapsing BPPV, BPPV associated with other neurological conditions, or severe multi-canal BPPV)
- Focal deficit or unilateral hearing loss
- Vision changes
- Trauma history
- Recent surgery

For numerator component C, patients may be excluded if they have:

- Patient refuses other treatment options
- Severe symptoms during positioning
- Nausea or vomiting during positioning
- Patient requires prophylaxis
- Clinical indication for long-term use present (e.g., anxiety disorder)

**Measure Classifications:**

Submission Pathway: Traditional MIPS

Measure Type: Process

High Priority Type: Appropriate Use

Meaningful Measures Area: Appropriate Use of Healthcare

Care Setting(s): Ambulatory Care: Clinician Office/Clinic

Includes Telehealth: Yes

Number of Performance Rates: 1

Inverse measure: Yes

Continuous measure: No

Proportional measure: Yes

Ratio measure: No

Risk Adjusted measure: No

**Clinical Recommendation Statement:**

Clinicians should not obtain radiographic imaging in a patient who meets diagnostic criteria for BPPV in the absence of additional signs and/or symptoms inconsistent with BPPV that warrant imaging. Clinicians should not order vestibular testing in a patient who meets diagnostic criteria for BPPV in the absence of additional vestibular signs and/or symptoms inconsistent with BPPV that warrant testing. Clinicians should not routinely treat BPPV with vestibular suppressant medications such as antihistamines and/or benzodiazepines.

Bhattacharyya N, Gubbels SP, Schwartz SR, et al. Clinical Practice Guideline: Benign Paroxysmal Positional Vertigo (Update). *Otolaryngology Head Neck Surg.* 2017;156(3\_suppl):S1-S47.  
doi:10.1177/0194599816689667

**Rationale:**

Implementation of this measure provides an opportunity to reduce delays in BPPV diagnosis and treatment, reduce the use of low-value, high-cost studies, and reduce unwarranted variation in care.

**Supporting Clinical Practice Guideline (CPG):**

For more details, reference the [Clinical Practice Guideline: Benign Paroxysmal Positional Vertigo \(Update\) \[2017\]](#)

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## Addendum

Encounter Visit			
Measure Element	Code Type	Code	Code Description
Denominator - Office Consultation	CPT	99242	Office or other outpatient consultation
Denominator - Office Consultation	CPT	99243	Office or other outpatient consultation
Denominator - Office Consultation	CPT	99244	Office or other outpatient consultation
Denominator - Office Consultation	CPT	99245	Office or other outpatient consultation
Denominator - Office Consultation	CPT	99211	Office or other outpatient consultation
Denominator - Office Consultation	CPT	99212	Office or other outpatient consultation
Denominator - Office Consultation	CPT	99213	Office or other outpatient consultation
Denominator - Office Consultation	CPT	99214	Office or other outpatient consultation
Denominator - Office Consultation	CPT	99215	Office or other outpatient consultation
Denominator - Office or Other Outpatient Visit	CPT	99202	Office or other outpatient consultation
Denominator - Office or Other Outpatient Visit	CPT	99203	Office or other outpatient consultation
Denominator - Office or Other Outpatient Visit	CPT	99204	Office or other outpatient consultation
Denominator - Office or Other Outpatient Visit	CPT	99205	Office or other outpatient consultation
Imaging			
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	11541-0	Deprecated MRI Brain study
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDCT	16323611000119100	Magnetic resonance imaging of orbit, face and neck without contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDCT	16324921000119100	Magnetic resonance imaging of face and orbit with contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDCT	16324971000119100	Magnetic resonance imaging of face and orbit without contrast (procedure)
Denominator Exclusion - CT or MRI	SNOMEDCT	16327691000119100	Magnetic resonance imaging of brain with contrast (procedure)

scan_Intervention Performed			
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	169068008	Computed tomography of neck (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	241521000	Computed tomography of internal auditory meatus (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	241535003	Computed tomography of soft tissues of neck (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	241601008	Magnetic resonance imaging of head (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	241602001	Magnetic resonance imaging of brain with T2 mapping (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24586-0	MR Brain W anesthesia
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24587-8	MR Brain WO and W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24588-6	MR Brain WO and W contrast IV and W anesthesia
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24589-4	MR Brain W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24590-2	MR Brain
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24725-4	CT Head
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24726-2	CT Head WO and W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24727-0	CT Head W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24735-3	MR Internal auditory canal and Posterior fossa

Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24740-3	MR Internal auditory canal and Posterior fossa WO and W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24835-1	CT Nasopharynx and Neck
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24836-9	CT Nasopharynx and Neck W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24839-3	MR Neck
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24840-1	MR Neck WO and W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	24841-9	MR Neck W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	29567006	Magnetic resonance imaging of brain and brain stem (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	303653007	Computed tomography of head (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	303654001	Special computed tomography procedure of head (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	303655000	Computed tomography of bone structures and cavities of the head (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	303658003	Computed tomography of extracranial soft tissues of the head (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	30583-9	CT Internal auditory canal W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	30584-7	CT Internal auditory canal WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	30585-4	CT Nasopharynx and Neck WO contrast
Denominator Exclusion - CT or MRI	LOINC	30586-2	CT Neck WO and W contrast IV

scan_Intervention Performed			
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	30655-5	MR Cerebral cisterns
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	30657-1	MR Brain WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	30658-9	MR Internal auditory canal WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	30659-7	MR Internal auditory canal WO and W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	30660-5	MR Neck WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	30799-1	CT Head WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	30957007	Magnetic resonance imaging of orbit (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	35956-2	MR Internal auditory canal
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	35957-0	CT Internal auditory canal - left
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	35958-8	CT Internal auditory canal
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	36051-1	CT Neck
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	36087-5	CT Head limited
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	36088-3	MR Internal auditory canal limited
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	36096-6	MR Brain limited W contrast IV

Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	36104-8	CT Head limited WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	36105-5	MR Brain limited WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	36155-0	MR Internal auditory canal W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	36235-0	CT Neck W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	36282-2	CT Internal auditory canal WO and W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	36514-8	CT Neck WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	37215-1	MR Brain and Larynx W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	37217-7	MR Brain stem and Cranial nerves
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	37239-1	MR Brain and Internal auditory canal W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	37278-9	MR Brain and Internal auditory canal WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	37279-7	MR Brain and Larynx WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	382911000119105	Magnetic resonance imaging of neck without contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	383311000119100	Magnetic resonance imaging of orbits without contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	383321000119107	Magnetic resonance imaging of brain and brain stem without contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	383371000119108	Computed tomography of head without contrast (procedure)

scan_Intervention Performed			
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	38767-0	CT Internal auditory canal - right
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	395561000119108	Computed tomography of soft tissues of neck without contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	395611000119106	Magnetic resonance imaging of brain and brain stem with contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	396111000119108	Computed tomography of soft tissues of neck with contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	407669000	Magnetic resonance imaging of brain abnormal (finding)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	407670004	Computed tomography of brain abnormal (finding)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	408567009	Computed tomography scan brain declined (situation)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	408568004	Computed tomography scan brain - normal (finding)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	408754009	Computed tomography of entire head (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	411151000119106	Magnetic resonance imaging of orbit, face and neck with contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	411301000119105	Magnetic resonance imaging of brain and internal auditory canal without contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	411911000119107	Magnetic resonance imaging of brain and facial bones without contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	412541000119105	Computed tomography of internal auditory structure without contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	416318006	Magnetic resonance imaging of brain normal (finding)

Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	417936006	Magnetic resonance imaging angiography of head (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	42385-5	MR Brain and Pituitary and Sella turcica
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	42391-3	MR Brain and Pituitary and Sella turcica W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	42392-1	MR Brain and Pituitary and Sella turcica WO and W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	42393-9	MR Brain and Pituitary and Sella turcica WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	429857005	Computed tomography of internal auditory meatus with contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	429858000	Computed tomography of head and neck (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	430448007	Computed tomography of neck and thorax (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	431326009	Computed tomography of neck with contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	431999000	Diffusion weighted magnetic resonance imaging of brain (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	432541008	Magnetic resonance imaging of neck with contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	432874000	Magnetic resonance imaging of head with contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	432904000	Computed tomography of head for cranioplasty planning (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	433133005	Magnetic resonance imaging of orbit with contrast (procedure)
Denominator Exclusion - CT or MRI	LOINC	43530-5	MR Orbit and Face and Neck

scan_Intervention Performed			
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	43769-9	MR Brain and Internal auditory canal WO and W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	43772-3	MR Brain and Internal auditory canal
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	443602007	Magnetic resonance imaging of brain using isotropic resolution (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	443603002	Magnetic resonance imaging of brain with contrast using isotropic resolution (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	446138008	Magnetic resonance imaging of brain stem (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	446459005	Computed tomography of brain perfusion using xenon (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	448306001	Diffusion tensor magnetic resonance imaging of brain (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	448335009	Computed tomography of head and neck with contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	448343004	Computed tomography perfusion study of neck (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	46310-9	MR Orbit and Face and Neck WO and W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	46314-1	CT Internal auditory canal WO and W reduced contrast volume IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	46316-6	CT Head WO and W reduced contrast volume IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	46321-6	MR Orbit and Face and Neck W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	46325-7	CT Internal auditory canal W reduced contrast volume IV

Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	46328-1	CT Head W reduced contrast volume IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	46332-3	MR Orbit and Face and Neck WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	48461-8	MR Neck limited
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	489801000119103	Magnetic resonance imaging of brain without contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	66675005	Magnetic resonance imaging of orbit, face and neck (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	698354004	Magnetic resonance imaging for measurement of brain volume (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	698355003	Magnetic resonance imaging for measurement of brain volume with contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	702517002	Computed tomography of facial bones and neck (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	702518007	Computed tomography of facial bones and neck with contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	702724004	Magnetic resonance imaging of head and neck with contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	702725003	Magnetic resonance imaging of head and neck (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70336	Diagnostic Radiology (Diagnostic Imaging) Procedures of the Head and Neck
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70450	Computed tomography, head or brain; without contrast material
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70460	Computed tomography, head or brain; with contrast material(s)

Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70470	Computed tomography, head or brain; without contrast material, followed by contrast material(s) and further sections
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70480	Computed tomography, orbit, sella, or posterior fossa or outer, middle, or inner ear; without contrast material
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70481	Computed tomography, orbit, sella, or posterior fossa or outer, middle, or inner ear; with contrast material(s)
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70482	Computed tomography, orbit, sella, or posterior fossa or outer, middle, or inner ear; without contrast material, followed by contrast material(s) and further sections
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70486	Computed tomography, maxillofacial area; without contrast material
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70487	Computed tomography, maxillofacial area; with contrast material(s)
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70488	Computed tomography, maxillofacial area; without contrast material, followed by contrast material(s) and further sections
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70490	Computed tomography, soft tissue neck; without contrast material
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70491	Computed tomography, soft tissue neck; with contrast material(s)
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70492	Computed tomography, soft tissue neck; without contrast material followed by contrast material(s) and further sections
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70540	Magnetic resonance (eg, proton) imaging, orbit, face, and/or neck; without contrast material(s)
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70542	Magnetic resonance (eg, proton) imaging, orbit, face, and/or neck; with contrast material(s)
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70543	Magnetic resonance (eg, proton) imaging, orbit, face, and/or neck; without contrast material(s), followed by contrast material(s) and further sequences
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70551	Magnetic resonance (eg, proton) imaging, brain (including brain stem); without contrast material

Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70552	Magnetic resonance (eg, proton) imaging, brain (including brain stem); with contrast material(s)
Denominator Exclusion - CT or MRI scan_Intervention Performed	CPT	70553	Magnetic resonance (eg, proton) imaging, brain (including brain stem); without contrast material, followed by contrast material(s) and further sequences
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	711185003	Magnetic resonance imaging of head and spine (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	711187006	Magnetic resonance imaging of head and spine with contrast (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	720705001	Magnetic resonance imaging of brain with arterial spin labeling (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	SNOMEDC T	72221006	Magnetic resonance imaging of neck (procedure)
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	82132-2	CT Face and Neck WO and W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	82133-0	CT Face and Neck WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	82690-9	CT Head and Cervical spine WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	82691-7	CT Head and Neck W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	82692-5	CT Head and Neck WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	82742-8	CT Head WO and W contrast IV and CT Orbit - bilateral W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	82802-0	CT Head WO and W contrast IV and CT Sinuses W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	82803-8	CT Head WO and W contrast IV and CT Temporal bone W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	82804-6	CT Head WO and W contrast IV and CT Neck W contrast IV

scan_Intervention Performed			
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	83296-4	CT Head W contrast IV and CT Orbit - bilateral WO and W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	83301-2	CT Neck and Superior mediastinum WO and W contrast IV
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	83302-0	CT Head and Temporal bone WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	83306-1	CT Head and Maxillofacial region WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	83307-9	CT Head and Mandible WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	LOINC	83308-7	CT Neck and Superior mediastinum WO contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	B02000Z	Computerized Tomography (CT Scan) of Brain using High Osmolar Contrast, Unenhanced and Enhanced
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	B0200ZZ	Computerized Tomography (CT Scan) of Brain using High Osmolar Contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	B02010Z	Computerized Tomography (CT Scan) of Brain using Low Osmolar Contrast, Unenhanced and Enhanced
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	B0201ZZ	Computerized Tomography (CT Scan) of Brain using Low Osmolar Contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	B020Y0Z	Computerized Tomography (CT Scan) of Brain using Other Contrast, Unenhanced and Enhanced
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	B020YZZ	Computerized Tomography (CT Scan) of Brain using Other Contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	B020ZZZ	Computerized Tomography (CT Scan) of Brain
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	B030Y0Z	Magnetic Resonance Imaging (MRI) of Brain using Other Contrast, Unenhanced and Enhanced

Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	B030YZZ	Magnetic Resonance Imaging (MRI) of Brain using Other Contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	B030ZZZ	Magnetic Resonance Imaging (MRI) of Brain
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW2800Z	Computerized Tomography (CT Scan) of Head using High Osmolar Contrast, Unenhanced and Enhanced
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW280ZZ	Computerized Tomography (CT Scan) of Head using High Osmolar Contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW2810Z	Computerized Tomography (CT Scan) of Head using Low Osmolar Contrast, Unenhanced and Enhanced
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW281ZZ	Computerized Tomography (CT Scan) of Head using Low Osmolar Contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW28Y0Z	Computerized Tomography (CT Scan) of Head using Other Contrast, Unenhanced and Enhanced
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW28YZZ	Computerized Tomography (CT Scan) of Head using Other Contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW28ZZZ	Computerized Tomography (CT Scan) of Head
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW2900Z	Computerized Tomography (CT Scan) of Head and Neck using High Osmolar Contrast, Unenhanced and Enhanced
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW290ZZ	Computerized Tomography (CT Scan) of Head and Neck using High Osmolar Contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW2910Z	Computerized Tomography (CT Scan) of Head and Neck using Low Osmolar Contrast, Unenhanced and Enhanced
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW291ZZ	Computerized Tomography (CT Scan) of Head and Neck using Low Osmolar Contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW29Y0Z	Computerized Tomography (CT Scan) of Head and Neck using Other Contrast, Unenhanced and Enhanced
Denominator Exclusion - CT or MRI	ICD10PCS	BW29YZZ	Computerized Tomography (CT Scan) of Head and Neck using Other Contrast

scan_Intervention Performed			
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW29ZZZ	Computerized Tomography (CT Scan) of Head and Neck
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW2F00Z	Computerized Tomography (CT Scan) of Neck using High Osmolar Contrast, Unenhanced and Enhanced
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW2F0ZZ	Computerized Tomography (CT Scan) of Neck using High Osmolar Contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW2F10Z	Computerized Tomography (CT Scan) of Neck using Low Osmolar Contrast, Unenhanced and Enhanced
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW2F1ZZ	Computerized Tomography (CT Scan) of Neck using Low Osmolar Contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW2FY0Z	Computerized Tomography (CT Scan) of Neck using Other Contrast, Unenhanced and Enhanced
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW2FYZZ	Computerized Tomography (CT Scan) of Neck using Other Contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW2FZZZ	Computerized Tomography (CT Scan) of Neck
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW38Y0Z	Magnetic Resonance Imaging (MRI) of Head using Other Contrast, Unenhanced and Enhanced
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW38YZZ	Magnetic Resonance Imaging (MRI) of Head using Other Contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW38ZZZ	Magnetic Resonance Imaging (MRI) of Head
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW3FY0Z	Magnetic Resonance Imaging (MRI) of Neck using Other Contrast, Unenhanced and Enhanced
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW3FYZZ	Magnetic Resonance Imaging (MRI) of Neck using Other Contrast
Denominator Exclusion - CT or MRI scan_Intervention Performed	ICD10PCS	BW3FZZZ	Magnetic Resonance Imaging (MRI) of Neck

Denominator Exclusion - CTA or MRA intervention performed	SNOMEDC T	183833005	Refer for computerized axial tomography scanning (procedure)
Denominator Exclusion - CTA or MRA intervention performed	SNOMEDC T	37731000119100	Magnetic resonance angiography of head without contrast (procedure)
Denominator Exclusion - CTA or MRA intervention performed	SNOMEDC T	489811000119100	Magnetic resonance angiography of head and brain without contrast (procedure)
Denominator Exclusion - CTA or MRA intervention performed	SNOMEDC T	702684006	Magnetic resonance angiography of head with contrast (procedure)
Denominator Exclusion - CTA or MRA intervention performed	SNOMEDC T	702726002	Magnetic resonance angiography of head and neck (procedure)
Denominator Exclusion - CTA or MRA intervention performed	SNOMEDC T	702727006	Magnetic resonance angiography of head and neck with contrast (procedure)
Denominator Exclusion - CTA or MRA intervention performed	CPT	70496	Computed tomographic angiography head with contrast material(s) including noncontrast images if performed and image postprocessing
Denominator Exclusion - CTA or MRA intervention performed	CPT	70498	Computed tomographic angiography neck with contrast material(s) including noncontrast images if performed and image postprocessing
Denominator Exclusion - CTA or MRA intervention performed	CPT	70544	Magnetic resonance angiography head without contrast material(s)
Denominator Exclusion - CTA or MRA intervention performed	CPT	70545	Magnetic resonance angiography head with contrast material(s)
Denominator Exclusion - CTA or MRA intervention performed	CPT	70546	Magnetic resonance angiography head without contrast material(s) followed by contrast material(s) and further sequences

## Vestibular Testing

Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92517	Vestibular evoked myogenic potential (VEMP) testing, with interpretation and report; cervical (cVEMP)
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92518	ocular (oVEMP)
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92519	cervical (cVEMP) and ocular (oVEMP)
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92531	"Spontaneous nystagmus, including gaze"
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92532	Positional nystagmus test
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92533	"Caloric vestibular test, each irrigation (binaural, bithermal stimulation constitutes 4 tests"

Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92534	Optokinetic nystagmus test
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92537	Caloric vestibular test with recording, bilateral; bithermal
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92538	Caloric vestibular test with recording, bilateral; monothermal
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92540	Basic vestibular evaluation, includes spontaneous nystagmus test with eccentric gaze fixation nystagmus, with recording, positional nystagmus test, minimum of 4 positions, with recording, optokinetic nystagmus test, bidirectional foveal and peripheral stimulation, with recording, and oscillating tracking test, with recording
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92541	Spontaneous nystagmus test, including gaze and fixation nystagmus, with recording
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92542	Positional nystagmus test, minimum of 4 positions, with recording
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92544	Optokinetic nystagmus test, bidirectional, foveal or peripheral stimulation, with recording
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92545	Oscillating tracking test, with recording
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92546	Sinusoidal vertical axis rotational testing
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92548	Computerized dynamic posturography
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92549	"Computerized dynamic posturography sensory organization test (CDP-SOT), 6 conditions (ie, eyes open, eyes closed, visual sway, platform sway, eyes closed platform sway, platform and visual sway), including interpretation and report; with motor control test (MCT) and adaptation test (ADT)"
Denominator Exclusion - Vestibular testing_ Intervention performed	CPT	92700	Unlisted (used for VEMP)

### BPPV

Denominator, Denominator Exclusions - Benign Paroxysmal Positional Vertigo Diagnosis	ICD10CM	H81.10	Benign paroxysmal vertigo, unspecified ear
Denominator, Denominator Exclusions - Benign Paroxysmal	ICD10CM	H81.11	Benign paroxysmal vertigo, right ear

Positional Vertigo_Diagnosis			
Denominator, Denominator Exclusions - Benign Paroxysmal Positional Vertigo_Diagnosis	ICD10CM	H81.12	Benign paroxysmal vertigo, left ear
Denominator, Denominator Exclusions - Benign Paroxysmal Positional Vertigo_Diagnosis	ICD10CM	H81.13	Benign paroxysmal vertigo, bilateral
Denominator, Denominator Exclusions - Benign Paroxysmal Positional Vertigo_Diagnosis	ICD10CM	H81.1	Benign paroxysmal vertigo