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Objectives

- Review the Anatomy of the Brain and supporting structures
- Understand the various methods of approach and the tools used to get there
- Interpret specific procedures and the CPT® codes which represent them
- Discuss diagnoses as each relates to the interventional or therapeutic treatment described by assorted CPT® codes

Part and Pieces
**Skull Anatomy**

- 8 Skull bones
- Support
- Enclose
- Protect
- Attachment points

- 14 Facial Bones
  - Framework
  - Support

**Sphenoid Bone**

- Anterior base of cranium
- Central body
- Sella turcica
- 2 Pair wings
Ethmoid bone

Forms a portion of the anterior cranial floor

- Crista Galli
- Cribriform plate

Skull Anatomy

The Dura Mater
Brain Anatomy

• Reasoning
• Motor Skills
  • Motor cortex
• Higher level cognition
• Expressive language

Damage may lead to changes in:
• Socialization
• Attention
• Sexual habits
• Increased risk-taking

Frontal Lobe
**Parietal Lobe**

- Processing tactile sensory information
  - Pressure
  - Touch
  - Pain
- Somatosensory cortex
  - Processes body’s senses

Damage to this lobe may
- Verbal memory issues
- Impair control of eye gaze
- Problems with language

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**Temporal Lobe**

- Primary auditory cortex
  - Interpret sound
  - Interpret language
- Hippocampus
  - Formation of memories

Damage may lead to problems with:
- Memory
- Speech perception
- Language skills
Occipital Lobe

- Interpreting visual stimuli and information
  - Primary Visual Cortex
  - Secondary Visual Cortex
  - Tertiary Visual Cortex

Damage may lead to:
- Recognizing objects
- Identifying colors
- Recognizing words

Brainstem & Cerebellum

Brainstem – Nerve pathways
- Medulla Oblongata
  - Cardiac
  - Respiratory
  - Vasomotor
- Midbrain
  - Auditory reflex centers
  - Visual reflex centers
- Pons
  - Respiratory center

Cerebellum
- Fine movement coordination
- Balance and Equilibrium
- Muscle Tone
**Tentorium**

- Corpus callosum
- Left Occipital lobe
- Pons
- Brain Stem
- Right Occipital lobe
- Tentorium
- Medulla Oblongata

*Cerebellum has been removed*

**Ventricle System**

- 4 Ventricles
- Aqueduct of Sylvius
- Cerebral Aqueduct
- Central Canal

*Protects the Brain*
*Transports Cerebrospinal Fluid*
Open Approach

- Twist Drills
- Burr Hole(s)
  - Punctures
  - Injections
  - Aspirations
  - Drainage
  - Biopsies
  - Implantations/Insertions
  - Exploration

- Trephine
  - Biopsies
  - Exploration
Craniectomy vs. Craniotomy

- Craniectomy – bone flap removed w/o return to original site
- Craniotomy – bone flap is removed with return to original site
  - Immediate
  - Delayed

- Decompression
- Excision
- Insertions
- Resections
- Repairs
- Implantations

Neuroendoscopy
Approach is dependant upon site of lesion and critical structures

**Skull**
- Frontal
- Parietal
- Temporal
- Occipital
- Ethmoid
- Transcochlear
- Transcondylar
- Transpetrosal

**Skull base**
- Anterior Fossa
- Central Fossa
- Posterior Fossa
- Orbitocranial
- Zygomatic
- Craniofacial
- Infratemporal

**Site**
- Extradural
- Subdural
- Supratentorial
- Infratentorial
- Intracerebral
- Intracerebellar
- Ventricular
- Subpial
- Transoral
- Transnasal
- Intracranial
- Extracranial
Evacuations – Hematomas

Twist Drill
61108 … for evacuation and/or drainage of subdural hematoma

Burr Hole
61154 … evacuation and/or drainage of hematoma, extradural or subdural
61156 … with aspiration of hematoma or cyst, intracerebral

Cranietomy /Craniotomy
61312 … for evacuation of hematoma, supratentorial: extradural or subdural
61313 … intracerebral
61314 … for evacuation of hematoma, infratentorial; extradural or subdural
61315 … intracerebral

Intracranial Hemorrhage

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<tr>
<th>ICD–9–CM</th>
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<tr>
<td>432.0</td>
<td>Extradural hemorrhage</td>
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<tr>
<td></td>
<td>I62.00 Nontraumatic subdural hemorrhage, unspecified</td>
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<tr>
<td></td>
<td>I62.01 Nontraumatic acute subdural hemorrhage</td>
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<td></td>
<td>I62.02 Nontraumatic subacute subdural hemorrhage</td>
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<td>I62.03 Nontraumatic chronic subdural hemorrhage</td>
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<td>432.1</td>
<td>Subdural hemorrhage</td>
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<td>I62.1 Nontraumatic extradural hemorrhage</td>
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<td>432.9</td>
<td>Unspecified intracranial hemorrhage</td>
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<td>I62.9 Nontraumatic intracranial hemorrhage, unspecified</td>
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### Intracranial Hemorrhage

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<tr>
<td>I61.0</td>
<td>Nontraumatic Intracerebral hemorrhage in hemisphere, subcortical</td>
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<td>I61.1</td>
<td>Nontraumatic Intracerebral hemorrhage in hemisphere, cortical</td>
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<td>Nontraumatic Intracerebral hemorrhage in hemisphere, unspecified</td>
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<td>I61.3</td>
<td>Nontraumatic Intracerebral hemorrhage in brainstem</td>
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<td>I61.4</td>
<td>Nontraumatic Intracerebral hemorrhage in cerebellum</td>
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<td>I61.5</td>
<td>Nontraumatic Intracerebral hemorrhage, intraventricular</td>
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<td>I61.6</td>
<td>Nontraumatic Intracerebral hemorrhage, multiple localized</td>
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### Subarachnoid Hemorrhage

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<td>I60.0</td>
<td>Nontraumatic subarachnoid hemorrhage from carotid siphon and bifurcation</td>
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<td>Nontraumatic subarachnoid hemorrhage from middle cerebral artery</td>
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<td>I60.2</td>
<td>Nontraumatic subarachnoid hemorrhage from anterior communicating artery</td>
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<td>I60.3</td>
<td>Nontraumatic subarachnoid hemorrhage from posterior communicating artery</td>
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<td>I60.4</td>
<td>Nontraumatic subarachnoid hemorrhage from basilar artery</td>
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<td>I60.5</td>
<td>Nontraumatic subarachnoid hemorrhage from vertebral artery</td>
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<td>I60.6</td>
<td>Nontraumatic subarachnoid hemorrhage from other intracranial artery</td>
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<td>I60.7</td>
<td>Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery</td>
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<td>I60.8</td>
<td>Other nontraumatic subarachnoid</td>
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<tr>
<td>I60.9</td>
<td>Nontraumatic subarachnoid hemorrhage, unspecified</td>
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**Ventricular Punctures**

**Temporary placement**

**Burr Hole**

61020 Ventricular puncture through previous burr hole, fontanelle, suture, or implanted ventricular catheter/reservoir; without injection

61026 with injection of medication or other substance for diagnosis or treatment

61120 Burr hole for ventricular puncture (including inj. of gas, contrast media, dye or radioactive material)

61210 ...for implanting ventricular catheter, reservoir, EEG electrode(s), pressure recording device, or other cerebral monitoring device (separate procedure)

**Twist Drill**

61105...for subdural or ventricular puncture

61107...for subdural, intracerebral, or ventricular puncture; for implanting ventricular catheter, pressure recording device, or other intracerebral monitoring device

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**Ventricular Shunts**

**Placement**

62220 Creation of shunt; ventriculo-atrial, –jugular, –auricular

62223 ventriculo-peritoneal, –pleural, other terminus

**Replacement**

62225 Replacement or irrigation, ventricular catheter

62230 Replacement or revision of cerebrospinal fluid shunt, obstructed valve, or distal catheter in shunt system

**Removal**

62256 Removal of complete cerebrospinal fluid shunt system; without replacement

62258 with replacement by similar or other shunt at same operation
**Ventricular Shunts**

**Other Shunt Related Services**

+62160 Neuroendoscopy, intracranial, for placement of intraventricular catheter and attachment to shunt system or external drainage

62252 Reprogramming of programmable cerebrospinal shunt

61070 Puncture of shunt tubing or reservoir for aspiration or injection procedure

75809 Shuntogram for investigation of previously placed indwelling nonvascular shunt (eg, LeVeen shunt, ventriculoperitoneal shunt, indwelling infusion pump), radiological supervision and interpretation

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**Hydrocephalus**

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<tr>
<td>742.3</td>
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Communicating hydrocephalus

Obstructive hydrocephalus

Idiopathic normal pressure hydrocephalus

Idiopathic normal pressure hydrocephalus

Post-traumatic hydrocephalus

Hydrocephalus in diseases classified elsewhere

Other hydrocephalus

Hydrocephalus, unspecified

Malformations of aqueduct of Sylvius

Atresia of foramina of Magendie and Luschka

Other congenital hydrocephalus

Congenital hydrocephalus, unspecified
**Electrocorticography – Mapping**

61531 – Subdural implantation of strip electrodes through 1 or more burr hole(s) for long-term seizure monitoring

61533 – Craniotomy with elevation of bone flap, for subdural implantation of an electrode array; for long-term seizure monitoring

61534 – ; For excision of epileptogenic focus without electrocorticography during surgery

61535 – ; for removal of epidural or subdural electrode array, without excision of cerebral tissue (separate procedure)

61536 – ; for excision of cerebral epileptogenic focus, with electrocorticography during surgery (includes removal of array)

**Electrocorticography**

61538 – Craniotomy with elevation of bone flap; for lobectomy, temporal lobe, with electrocorticography during surgery

61539 – ; for lobectomy, other than temporal lobe, partial or total, with electrocorticography during surgery

61567 – ; for multiple subpial transections, with electrocorticography during surgery
## Epilepsy

<table>
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<td>345.00</td>
<td>Generalized nonconvulsive epilepsy, without mention of intractable epilepsy</td>
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<td>Generalized nonconvulsive epilepsy, with intractable epilepsy</td>
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<td>345.10</td>
<td>Generalized convulsive epilepsy, without mention of intractable epilepsy</td>
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<td>345.11</td>
<td>Generalized convulsive epilepsy, with intractable epilepsy</td>
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<td>345.2</td>
<td>Petit mal status</td>
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<tr>
<td>345.3</td>
<td>Grand mal status</td>
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<td>345.40</td>
<td>Localization-related epilepsy and epileptic syndromes with complex partial seizures, without mention of intractable epilepsy</td>
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<td>345.41</td>
<td>Localization-related epilepsy and epileptic syndromes with complex partial seizures, with intractable epilepsy</td>
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### Epilepsy

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<th>G40.101</th>
<th>G40.109</th>
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<td>Localization-related epilepsy and epileptic syndromes with simple partial seizures, wo mention of intractable epilepsy</td>
<td>Localization-related symptomatic epilepsy and epileptic syndromes with simple partial seizures, not intractable, with status epilepticus</td>
<td>Localization-related symptomatic epilepsy and epileptic syndromes with simple partial seizures, not intractable, without status epilepticus</td>
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<tr>
<td>345.51</td>
<td>Localization-related (focal) (partial) epilepsy and epileptic syndromes with simple partial seizures, with intractable epilepsy</td>
<td>Localization-related symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable, with status epilepticus</td>
<td>Localization-related symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable, without status epilepticus</td>
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### Epilepsy

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<th>G40.409</th>
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<td>345.60</td>
<td>Infantile spasms, without mention of intractable epilepsy</td>
<td>Other generalized epilepsy and epileptic syndromes, not intractable, with status epilepticus</td>
<td>Other generalized epilepsy and epileptic syndromes, not intractable, without status epilepticus</td>
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<tr>
<td>345.61</td>
<td>Infantile spasms, with intractable epilepsy</td>
<td>Other generalized epilepsy and epileptic syndromes, intractable, with status epilepticus</td>
<td>Other generalized epilepsy and epileptic syndromes, intractable, without status epilepticus</td>
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<tr>
<td>345.70</td>
<td>Epilepsia partialis continua, without mention of intractable epilepsy</td>
<td>Special epileptic syndromes, not intractable, with status epilepticus</td>
<td>Special epileptic syndromes, not intractable, without status epilepticus</td>
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<tr>
<td>345.71</td>
<td>Epilepsia partialis continua, with intractable epilepsy</td>
<td>Special epileptic syndromes, intractable, with status epilepticus</td>
<td>Special epileptic syndromes, intractable, without status epilepticus</td>
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### Epilepsy

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<th>ICD-9-CM</th>
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<tr>
<td>345.80</td>
<td>Other forms of epilepsy and recurrent seizures, without mention of intractable epilepsy</td>
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<tr>
<td></td>
<td>G40.801 Other epilepsy, not intractable, without status epilepticus</td>
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<td></td>
<td>G40.809 Other epilepsy, not intractable, without status epilepticus</td>
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<tr>
<td></td>
<td>G40.89  Other seizures</td>
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<tr>
<td>345.81</td>
<td>Other forms of epilepsy and recurrent seizures, with intractable epilepsy</td>
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<td>G40.811 Other epilepsy, intractable, with status epilepticus</td>
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<td>G40.819 Other epilepsy, intractable, without status epilepticus</td>
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<td>345.90</td>
<td>Epilepsy, unspecified, without mention of intractable epilepsy</td>
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<td>G40.901 Epilepsy, unspecified, not intractable, with status epilepticus</td>
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<td>G40.909 Epilepsy, unspecified, not intractable, without status epilepticus</td>
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<td>Epilepsy, unspecified, with intractable epilepsy</td>
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<td>G40.911 Epilepsy, unspecified, intractable, with status epilepticus</td>
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<td>G40.919 Epilepsy, unspecified, intractable, without status epilepticus</td>
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### Epilepsy

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<tr>
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<td>G40.319 Generalized idiopathic epilepsy and epileptic syndromes, intractable, without status epilepticus</td>
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<tr>
<td>N/A</td>
<td>G40.001 Localization-related idiopathic epilepsy and epileptic syndromes with seizures of localized onset, not intractable, with status epilepticus</td>
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<tr>
<td>N/A</td>
<td>G40.009 Localization-related idiopathic epilepsy and epileptic syndromes with seizures of localized onset, not intractable, without status epilepticus</td>
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<td>N/A</td>
<td>G40.011 Localization-related idiopathic epilepsy and epileptic syndromes with seizures of localized onset, intractable, with status epilepticus</td>
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<tr>
<td>N/A</td>
<td>G40.019 Localization-related idiopathic epilepsy and epileptic syndromes with seizures of localized onset, intractable, without status epilepticus</td>
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Neuroendoscopy via Nose

- Less invasive
- Removal of tumors of
  - Anterior skull base
  - Anterior Brainstem

- Few codes described as transnasal

61548 Hypophysectomy or excision of pituitary tumor, transnasal or transseptal approach, nonstereotactic

62165 Neuroendoscopy, intracranial; with excision of pituitary tumor, transnasal or transphenoidal approach

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Neuroendoscopy

62161 Neuroendoscopy, intracranial; with dissection of adhesions, fenestration of septum pellucidum or intraventricular cysts (including placement, replacement, or removal of ventricular catheter)

62162 with fenestration or excision of colloid cyst, including placement or external ventricular catheter for drainage

62163 with retrieval of foreign body

62164 with excision of brain tumor, including placement of external ventricular catheter for drainage
Skull Base Procedures

- 2 or 3 codes
  - Approach
  - Definitive
  - Repair reconstruction

- Conditions

**Approach**
**Anterior Cranial Fossa**
Craniofacial approach to anterior cranial fossa;

61580 *extradural*, including lateral rhinotomy, ethmnoïdectomy, sphenoidectomy, *without* maxillectomy or orbital exenteration

61581 *extradural*, including lateral rhinotomy, orbital exenteration, ethmnoïdectomy, sphenoidectomy and/or maxillectomy
**Approach**

**Anterior Cranial Fossa**

Craniofacial approach to anterior cranial fossa;

61582 extradural, including unilateral or bifrontal craniotomy, elevation of frontal lobe(s), osteotomy of base of anterior cranial fossa

61584 intradural, including unilateral or bifrontal craniotomy, elevation or resection of frontal lobe, osteotomy of base of anterior cranial fossa

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**Approach**

**Anterior Cranial Fossa**

61584 Orbitocranial approach to anterior cranial fossa, extradural, including supraorbital ridge osteotomy and elevation of frontal and/or temporal lobe(s); without orbital exenteration

61585 with orbital exenteration

61585 Bicoronal, transzygomatic and/or LeFort I osteotomy approach to anterior cranial fossa with or without internal fixation, without bone graft
**Approach**

**Middle Cranial Fossa**

61590 Infratemporal pre-auricular approach to middle cranial fossa (*parapharyngeal space, infratemporal and midline skull base, nasopharynx*), with or without disarticulation of the mandible, including parotidectomy, craniotomy, decompression and/or mobilization of the facial nerve and/or petrous carotid artery

61591 Infratemporal post-auricular approach to middle cranial fossa (*internal auditory meatus, petrous apex, tentorium, cavernous sinus, parasellar area, infratemporal fossa*) including mastoidectomy, resection of sigmoid sinus, with or without decompression and/or mobilization of contents of auditory canal or petrous carotid artery

**Approach**

**Middle Cranial Fossa**

61592 Orbitocranial zygomatic approach to middle cranial fossa (*cavernous sinus and carotid artery, clivus, basilar artery or petrous apex*) including osteotomy of zygoma, craniotomy, extra- or intradural elevation of temporal lobe
**Approach**

**Posterior Cranial Fossa**

61595 Transtemporal approach to posterior cranial fossa, jugular foramen or midline skull base, including mastoidectomy, decompression of sigmoid sinus and/or facial nerve, with or without mobilization

61596 Transcochlear approach to posterior cranial fossa, jugular foramen or midline skull base, including labyrinthectomy, decompression, with or without mobilization of facial nerve and/or petrous carotid artery

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**Approach**

**Posterior Cranial Fossa**

61597 Transcondylar (far lateral) approach to posterior cranial fossa, jugular foramen or midline skull base, including occipital condylecotomy, mastoidectomy, resection of C1–C3 vertebral body(s), decompression of vertebral artery, with or without mobilization

61598 Transpetrosal approach to posterior cranial fossa, clivus or foramen magnum, including ligation of superior petrosal sinus and/or sigmoid sinus
Definitive Procedure
Anterior Cranial Fossa

61600 Resection or excision of neoplastic, vascular or infectious lesion of base of anterior cranial fossa; extradural

61601 intradural, including dural repair, with or without graft

Definitive Procedure
Middle Cranial Fossa

61605 Resection or excision of neoplastic, vascular or infectious lesion of infratemporal fossa, parapharyngeal space, petrous apex; extradural

61606 intradural, including dural repair, with or without graft
Definitive Procedure
Middle Cranial Fossa

61607 Resection or excision of neoplastic, vascular or infectious lesion of parasellar area, cavernous sinus, clivus or midline skull base; extradural

61608 intradural, including dural repair, with or without graft

Definitive Procedure
Middle Cranial Fossa

Add-on procedures:

+61609 Transection or ligation, carotid artery in cavernous sinus; without repair

+61610 with repair by anastomosis or graft

+61611 Transection or ligation, carotid artery in petrous canal; without repair

+61612 with repair by anastomosis or graft
Definitive Procedure
Middle Cranial Fossa

61613 Obliteration of carotid aneurysm, arteriovenous malformation, or carotid–cavernous fistula by dissection within cavernous sinus

Definitive Procedure
Posterior Cranial Fossa

61615 Resection or excision of neoplastic, vascular or infectious lesion of base of posterior cranial fossa, jugular foramen, foramen magnum, or C1–C3 vertebral bodies; extradural

61616 intradural, including dural repair, with or without graft
Repair and/or Reconstruction of Surgical Defects of Skull Base

61618 Secondary repair of dura for cerebrospinal fluid leak, anterior, middle or posterior cranial fossa following surgery of the skull base; by free tissue graft (eg. Pericranium, fascia, tensor fascia lata, adipose tissue, homologous or synthetic grafts)

61619 by local or regionalized vascularized pedicle flap or myocutaneous flap (including galea, temporalis, frontalis or occipitalis muscle)
## Resources

<table>
<thead>
<tr>
<th>Images</th>
<th>TorricellaPeligna.com</th>
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<tbody>
<tr>
<td></td>
<td>Tallahassee Community College</td>
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