

Reference Operation Groups

Suture of wound

Suture of wound to head or neck
Suture of wound (not head and neck)
Explore infected wound

Lumbar puncture / drain

Insertion of lumbar drain
Lumbar puncture
CSF Infusion studies

Access CSF

Percutaneous tap of CSF reservoir
Access EVD or Lumbar Drain

Insert ICP monitor

Insertion of ICP monitor

Intubation

Endotracheal intubation

Arterial line

Insertion of arterial line

Central Line

Insertion of central line

Chest drain

Insertion of chest drain

Injections to Joint or Nerve

Local anaesthetic / steroid injections to joint, spine, occipital nerve but not cutaneous injections.
Spinal rhizolysis

Application of Halo or Traction

Application of craniocervical traction
Application of halo jacket and ring

Change Battery

Change Battery

Muscle, Temporal artery and Nerve biopsies

Peripheral nerve biopsy
Temporal artery biopsy
Muscle biopsy

Burr holes

Image guidance setup

Close case

Burr hole evacuation of subdural haematoma

Burr hole/craniectomy for subdural collection (incl CSDH)

Craniotomy for extradural haematoma

Craniotomy for extradural haematoma

Craniotomy for subdural haematoma

Craniotomy for subdural haematoma

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Reference Operation Groups

Craniotomy for traumatic ICH

Evacuation of traumatic intracerebral haematoma/contusion

Elevate depressed fracture / penetrating injury

Craniotomy for removal of foreign body/penetrating injury
Elevation of depressed skull fracture

Decompressive craniectomy

Supratentorial decompressive craniectomy
Posterior fossa craniectomy (for stroke)
Sub temporal decompression

Cranioplasty

Cranioplasty

Dural repair for CSF leak

Dural repair for CSF fistula

Other trauma

Fixation of facial fractures

Fixation of mandibular fracture

Stereotactic / Image guided biopsy of tumour

Stereotactic biopsy of intrinsic cerebral tumour

Burr hole biopsy of intrinsic cerebral tumour (+/- image guidance)

Brain biopsy

Craniotomy for intrinsic tumour

Craniotomy for frontal intrinsic cerebral tumour

Craniotomy for temporal intrinsic cerebral tumour

Craniotomy for parietal intrinsic cerebral tumour

Craniotomy for occipital intrinsic cerebral tumour

Craniotomy for other intrinsic cerebral tumour

Periventricular / suprasellar tumours [Index 1]

Craniotomy for midline ventricular lesion (eg colloid cyst)

Transcranial approach to sellar or suprasellar lesion

Infratentorial, supracerebellar approach to pineal region tumour

Supratentorial, suboccipital approach to pineal region tumour

Interhemispheric approach to pineal region tumour

Craniotomy for meningiomas [Index 1 & 3]

Excision of meningioma - convexity

Excision of meningioma - sphenoid ridge

Excision of meningioma - subfrontal

Excision of meningioma - parasagittal

Excision of meningioma - falx

Excision of meningioma - Other

Craniotomy for other benign lesions

Supratentorial craniotomy for benign lesions (excl. meningioma)

Supratentorial skull base approach to skull base tumour

Trans-sphenoidal procedures [Index 2]

Trans-sphenoidal excision of pituitary adenoma

Trans-sphenoidal biopsy of sellar lesion (not adenoma)

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Reference Operation Groups

Craniotomy for intrinsic tumours [Index 4]

Midline approach to intrinsic cerebellar tumour

Midline approach to intrinsic brain stem or 4th ventricle tumour

Retrosigmoid approach to intrinsic cerebellar tumour

Retrosigmoid approach to intrinsic brain stem tumour

Infratentorial meningiomas [Index 4]

Retrosigmoid craniotomy and excision of meningioma

Midline posterior fossa craniotomy and excision of meningioma

Craniotomy for acoustic neuroma [Index 4]

Middle fossa approach to vestibular schwannoma

Retrosigmoid approach to vestibular schwannoma

Translabrynthine approach to vestibular schwannoma

Other infratentorial benign tumours [Index 4]

Retrosigmoid craniotomy for benign lesions (excl. schwannoma and meningioma)

Midline posterior fossa craniotomy for benign lesions (excl. meningioma)

Transoral / transfacial approach to skull base tumour

Infratentorial skull base approach to skull base tumour

Intracranial abscess

Drainage of intracerebral abscess

Excision of intracerebral abscess

Epidural / subdural empyema

Drainage of subdural empyema

Drainage of extradural empyema

EVD or access device insertion

Insertion of access device

Insertion of external ventricular drain

VP shunt insertion

Insertion of ventriculoperitoneal shunt

VP shunt revision

Revision/maintenance of cranial CSF drainage system

All other shunt procedures

Removal of cranial CSF drainage system

Other CSF drainage/shunt procedure

Insertion of lumboperitoneal or lumbopleural shunt

Revision/maintenance of spinal CSF drainage system

Removal of spinal shunt system

Insertion of VA shunt

Endoscopic procedures [Index 2]

Endoscopic biopsy of intrinsic cerebral tumour

Endoscopic excision / drainage of ventricular lesion (eg colloid cyst)

Endoscopic third ventriculostomy

Other Endoscopic Procedure (except biopsy)

Clipping of intracranial aneurysm [Index 1]

Clipping of anterior circulation aneurysm

Clipping of posterior circulation aneurysm

Craniotomy for AVM [Index 1]

Craniotomy and excision of AVM

Craniotomy for dural AVM

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Reference Operation Groups

Craniotomy for cavernoma [Index 1]

Craniotomy and excision of Cavernoma

Craniotomy for supratentorial ICH

Craniotomy for spontaneous ICH (supratentorial)

Craniotomy for infratentorial ICH [Index 4]

Craniotomy for spontaneous ICH (infratentorial)

Carotid endarterectomy

Carotid endarterectomy

Vascular anastomosis / synangiosis

Anastomosis of cerebral artery

Cerebral synangiosis

Endovascular procedures

Endovascular embolisation of intracranial aneurysm

Embolisation of AVM

Endovascular occlusion of artery

Other interventional radiological procedure

Cerebral angiogram

Endovascular thrombectomy

Cranial operations for epilepsy [Index 1]

Hemispherectomy (functional or anatomic) for epilepsy

Temporal lobectomy for epilepsy

Lesionectomy for epilepsy

Cranial stimulators, electrodes and lesioning

Implantation of depth electrodes

Thalamotomy for movement disorder

Pallidotomy for movement disorder

Brain stimulation for movement disorder / pain

Revision / removal of brain stimulator or other cortical device

Psychosurgery

Placement of subdural electric grid

Insertion of vagal nerve stimulator

Vagal nerve stimulator for epilepsy

Microvascular decompression [Index 4]

Microvascular decompression of trigeminal nerve

Microvascular decompression of facial nerve

Percutaneous lesion of trigeminal nerve

Percutaneous approach to trigeminal nerve for trigeminal neuralgia

DREZ / cordotomy / rhizotomy

Spinal root rhizotomy
Open spinal cordotomy
Percutaneous cordotomy
DREZ lesion

Spinal stimulators / pumps

Insertion of spinal cord stimulator
Revision / removal of spinal cord device
Insertion of spinal drug delivery system

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Reference Operation Groups

Cranial nerve procedures

Excision of lesion of other cranial nerve
Decompression of other cranial nerve
Intracranial section of cranial nerve
Graft to facial (or other) nerve
Hypoglossal facial anastomosis

Craniocervical decompression [Index 5 if durotomy]

Foramen magnum decompression with durotomy
Foramen Magnum decompression without durotomy

C1, C2 and occipital fusions

Anterior PEG spinal fixation
Posterior C1/2 spinal fixation
Occipito-Cervical fusion (with instrumentation)

Anterior cervical procedures

Anterior cervical fusion
Primary anterior cervical discectomy +/- graft
Other anterior cervical decompression
Revision anterior cervical decompression
Transoral excision of odontoid
Anterior cervical disc replacement

Posterior cervical procedures

Posterior cervical fusion
Primary Posterior Cervical Laminectomy or laminoplasty
Other posterior cervical decompression
Revision posterior cervical decompression
Posterior cervical foraminotomy

Thoracic spinal procedures incl scoliosis

Anterior thoracic or lumbar fusion
Posterior thoracic or lumbar fusion
Transthoracic excision of thoracic disc
Posterior / lateral excision of thoracic disc
Other posterior thoracic decompression
Other anterior thoracic decompression
Anterior thoracic fusion
Posterior thoracic fusion
Scoliosis surgery

Primary lumbar discectomy

Primary posterior lumbar discectomy

Primary lumbar laminectomy

Primary lumbar laminectomy for disc/degen disease

Other posterior lumbar surgery

Other decompressive posterior lumbar surgery
Revision posterior lumbar surgery for disc/degen disease
Insertion or revision of lumbar interspinous distractor eg X-stop
Posterior Lumbar Interbody Fusion
Percutaneous vertebroplasty
Posterior Lumbar Fusion

Anterior lumbar surgery

Primary anterior lumbar surgery for disc/degen disease
Revision anterior lumbar surgery for disc/degen disease
Anterior Lumbar Interbody Fusion

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Reference Operation Groups

Infection

Drainage of spinal epidural abscess
Drainage of spinal subdural abscess

Intramedullary tumours [Index 5]

Biopsy of intramedullary spinal cord lesion
Excision / debulking of intramedullary spinal cord lesion

Intradural extramedullary tumours [Index 5]

Excision of spinal meningioma
Excision of spinal neurofibroma
Excision of other intradural, extramedullary lesion

Extradural tumours

Open biopsy of spine (eg tumour, infection)
CT guided biopsy of spine (eg tumour, infection)
Biopsy or excision of extradural spinal tumour

Dysraphism [Index 5]

Untethering of spinal cord
Closure of myelomeningocele
Other surgery for spinal dysraphism
Closure of encephalocele

Spinal extradural haematoma

Evacuation of primary spinal extradural haematoma

Vascular [Index 5]

Surgery for spinal AVM
Surgery for spinal cavernoma
Evacuation of primary spinal subdural haematoma

Syrinx

Insertion of syringoperitoneal or syringopleural shunt
Fenestration of intramedullary spinal syrinx or cyst

Peripheral nerve procedures

Carpal tunnel decompression
Other peripheral nerve decompression
Section or avulsion of peripheral nerve
Brachial plexus decompression / cervical rib procedure
Resection of peripheral nerve lesion
Insertion/ Revision of Peripheral Nerve Stimulator

Removal of infected bone flap

Removal of infected bone flap / cranioplasty

Reopening of wound

Re-opening for post-operative cranial haematoma
Post-operative re-exploration of spine
Explore infected wound

Scalp and skull lesions

Excision of scalp lesion
Excision of skull lesion

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Reference Operation Groups

Procedures not elsewhere coded

Correction of synostosis- vault only
Correction of synostosis- combined craniofacial procedure
Cranial procedure not elsewhere coded (cranial contents)
Cranial procedure not elsewhere coded (skull)
Spinal cord procedure- not elsewhere coded
Spinal (bony) procedure- not elsewhere coded
Stereotactic Radiosurgery

Burr hole evacuation of subdural haematoma

Burr hole/craniectomy for subdural collection (incl CSDH)

Craniotomy for extradural haematoma

Craniotomy for extradural haematoma

Craniotomy for subdural haematoma

Craniotomy for subdural haematoma

Craniotomy for traumatic ICH

Evacuation of traumatic intracerebral haematoma/contusion

Elevate depressed fracture / penetrating injury

Craniotomy for removal of foreign body/penetrating injury

Elevation of depressed skull fracture

Decompressive craniectomy

Supratentorial decompressive craniectomy

Posterior fossa craniectomy (for stroke)

Sub temporal decompression

Cranioplasty

Cranioplasty

Other trauma

Fixation of facial fractures

Fixation of mandibular fracture

Dural repair for CSF fistula

Stereotactic / Image guided biopsy of tumour

Stereotactic biopsy of intrinsic cerebral tumour

Burr hole biopsy of intrinsic cerebral tumour (+/- image guidance)

Brain biopsy

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Reference Operation Groups

Craniotomy for supratentorial tumour [Index 6]

Craniotomy for frontal intrinsic cerebral tumour

Craniotomy for temporal intrinsic cerebral tumour

Craniotomy for parietal intrinsic cerebral tumour

Craniotomy for occipital intrinsic cerebral tumour

Craniotomy for other intrinsic cerebral tumour

Craniotomy for midline ventricular lesion (eg colloid cyst)

Supratentorial craniotomy for benign lesions (excl. meningioma)

Supratentorial skull base approach to skull base tumour

Excision of meningioma - convexity

Excision of meningioma - sphenoid ridge

Excision of meningioma - subfrontal

Excision of meningioma - parasagittal

Excision of meningioma - falx

Excision of meningioma - Other

Transcranial approach to sellar or suprasellar lesion

Supratentorial, suboccipital approach to pineal region tumour

Interhemispheric approach to pineal region tumour

Middle fossa approach to vestibular schwannoma

Craniotomy for infratentorial tumour [Index 7]

Midline approach to intrinsic cerebellar tumour

Midline approach to intrinsic brain stem or 4th ventricle tumour

Retrosigmoid approach to intrinsic cerebellar tumour

Retrosigmoid approach to intrinsic brain stem tumour

Retrosigmoid craniotomy for benign lesions (excl. schwannoma and meningioma)

Midline posterior fossa craniotomy for benign lesions (excl. meningioma)

Transoral / transfacial approach to skull base tumour

Infratentorial skull base approach to skull base tumour

Retrosigmoid craniotomy and excision of meningioma

Midline posterior fossa craniotomy and excision of meningioma

Infratentorial, supracerebellar approach to pineal region tumour

Retrosigmoid approach to vestibular schwannoma

Translabrynthine approach to vestibular schwannoma

Trans-sphenoidal [Index 2]

Trans-sphenoidal excision of pituitary adenoma

Trans-sphenoidal biopsy of sellar lesion (not adenoma)

Intracranial abscess

Drainage of intracerebral abscess

Excision of intracerebral abscess

Subdural / epidural empyema

Drainage of subdural empyema

Drainage of extradural empyema

EVD or access device insertion

Insertion of access device

Insertion of external ventricular drain

VP shunt insertion

Insertion of ventriculoperitoneal shunt

VP shunt revision

Revision/maintenance of cranial CSF drainage system

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Reference Operation Groups

All other shunt procedures

Removal of cranial CSF drainage system

Other CSF drainage/shunt procedure

Insertion of lumboperitoneal or lumbopleural shunt

Revision/maintenance of spinal CSF drainage system

Removal of spinal shunt system

Insertion of VA shunt

Endoscopic procedures [Index 2]

Endoscopic biopsy of intrinsic cerebral tumour

Endoscopic excision / drainage of ventricular lesion (eg colloid cyst)

Endoscopic third ventriculostomy

Other Endoscopic Procedure (except biopsy)

Craniotomy for AVM or cavernoma [Index 6]

Craniotomy and excision of AVM

Craniotomy and excision of Cavernoma

Craniotomy for dural AVM

Craniotomy for spontaneous ICH

Craniotomy for spontaneous ICH (supratentorial)

Craniotomy for spontaneous ICH (infratentorial)

Other vascular cases

Clipping of anterior circulation aneurysm

Clipping of posterior circulation aneurysm

Endovascular embolisation of intracranial aneurysm

Embolisation of AVM

Endovascular occlusion of artery

Other interventional radiological procedure

Cerebral angiogram

Anastomosis of cerebral artery

Carotid endarterectomy

Cerebral synangiosis

Craniotomy for epilepsy [Index 6]

Hemispherectomy (functional or anatomic) for epilepsy

Temporal lobectomy for epilepsy

Lesionectomy for epilepsy

Cranial stimulators, electrodes and lesioning

Implantation of depth electrodes

Thalamotomy for movement disorder

Pallidotomy for movement disorder

Brain stimulation for movement disorder / pain

Revision / removal of brain stimulator or other cortical device

Psychosurgery

Placement of subdural electric grid

Insertion of vagal nerve stimulator

Vagal nerve stimulator for epilepsy

Spinal stimulators / pumps

Insertion of spinal cord stimulator

Revision / removal of spinal cord device

Insertion of spinal drug delivery system

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Reference Operation Groups

Cranial nerve procedures

Excision of lesion of other cranial nerve

Microvascular decompression of trigeminal nerve

Microvascular decompression of facial nerve

Percutaneous approach to trigeminal nerve for trigeminal neuralgia

Decompression of other cranial nerve

Intracranial section of cranial nerve
Graft to facial (or other) nerve
Hypoglossal facial anastomosis

Craniocervical decompression [Index 5 if durotomy]

Foramen magnum decompression with durotomy
Foramen Magnum decompression without durotomy

C1, C2 and occipital fusions

Anterior PEG spinal fixation
Posterior C1/2 spinal fixation
Occipito-Cervical fusion (with instrumentation)

Decompression +/- fusion (incl. scoliosis)

Anterior cervical fusion
Posterior cervical fusion
Anterior thoracic or lumbar fusion
Posterior thoracic or lumbar fusion
Primary Posterior Cervical Laminectomy or laminoplasty
Other posterior cervical decompression
Primary anterior cervical discectomy +/- graft
Other anterior cervical decompression
Revision anterior cervical decompression
Revision posterior cervical decompression
Transoral excision of odontoid
Transthoracic excision of thoracic disc
Posterior / lateral excision of thoracic disc
Other posterior thoracic decompression
Other anterior thoracic decompression
Primary posterior lumbar discectomy
Primary lumbar laminectomy for disc/degen disease
Other decompressive posterior lumbar surgery
Primary anterior lumbar surgery for disc/degen disease
Revision posterior lumbar surgery for disc/degen disease
Revision anterior lumbar surgery for disc/degen disease
Insertion or revision of lumbar interspinous distractor eg X-stop
Posterior Lumbar Interbody Fusion
Anterior Lumbar Interbody Fusion
Percutaneous vertebroplasty
Anterior thoracic fusion
Posterior thoracic fusion
Posterior Lumbar Fusion
Posterior cervical foraminotomy
Scoliosis surgery
Anterior cervical disc replacement

Infection

Drainage of spinal epidural abscess
Drainage of spinal subdural abscess

Intramedullary tumours [Index 5]

Biopsy of intramedullary spinal cord lesion
Excision / debulking of intramedullary spinal cord lesion
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Reference Operation Groups

Intradural, extramedullary tumours [Index 5]

Excision of spinal meningioma
Excision of spinal neurofibroma
Excision of other intradural, extramedullary lesion

Extradural tumours

Open biopsy of spine (eg tumour, infection)
CT guided biopsy of spine (eg tumour, infection)
Biopsy or excision of extradural spinal tumour

Dysraphism [Index 5]

Untethering of spinal cord
Closure of myelomeningocele
Other surgery for spinal dysraphism
Closure of encephalocele

Spinal extradural haematoma

Evacuation of primary spinal extradural haematoma

Vascular [Index 5]

Surgery for spinal AVM
Surgery for spinal cavernoma
Evacuation of primary spinal subdural haematoma

Syrinx

Insertion of syringoperitoneal or syringopleural shunt
Fenestration of intramedullary spinal syrinx or cyst

Functional / pain

Spinal root rhizotomy
Open spinal cordotomy
Percutaneous cordotomy
DREZ lesion

Peripheral nerve procedures

Carpal tunnel decompression
Other peripheral nerve decompression
Section or avulsion of peripheral nerve
Brachial plexus decompression / cervical rib procedure
Resection of peripheral nerve lesion
Insertion/ Revision of Peripheral Nerve Stimulator

Repair of craniosynostosis

Correction of synostosis- vault only
Correction of synostosis- combined craniofacial procedure

Reopening of wound

Removal of infected bone flap / cranioplasty
Re-opening for post-operative cranial haematoma
Post-operative re-exploration of spine
Explore infected wound

Scalp and skull lesions

Excision of scalp lesion
Excision of skull lesion

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Reference Operation Groups

Procedures not elsewhere coded

Cranial procedure not elsewhere coded (cranial contents)
Cranial procedure not elsewhere coded (skull)
Spinal cord procedure- not elsewhere coded
Spinal (bony) procedure- not elsewhere coded
Stereotactic Radiosurgery

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Reference Operation Groups

Children 0-15 yrs old (min 70)

Craniotomy for extradural haematoma
Craniotomy for subdural haematoma
Burr hole/craniectomy for subdural collection (incl CSDH)
Craniotomy for removal of foreign body/penetrating injury
Evacuation of traumatic intracerebral haematoma/contusion
Elevation of depressed skull fracture
Fixation of facial fractures
Fixation of mandibular fracture
Supratentorial decompressive craniectomy
Dural repair for CSF fistula
Clipping of anterior circulation aneurysm
Clipping of posterior circulation aneurysm
Endovascular embolisation of intracranial aneurysm
Embolisation of AVM
Endovascular occlusion of artery
Other interventional radiological procedure
Cerebral angiogram
Craniotomy and excision of AVM
Craniotomy and excision of Cavernoma
Craniotomy for dural AVM
Anastomosis of cerebral artery
Craniotomy for spontaneous ICH (supratentorial)
Craniotomy for spontaneous ICH (infratentorial)
Carotid endarterectomy
Posterior fossa craniectomy (for stroke)
Craniotomy for frontal intrinsic cerebral tumour

Craniotomy for temporal intrinsic cerebral tumour
 Craniotomy for parietal intrinsic cerebral tumour
 Craniotomy for occipital intrinsic cerebral tumour
 Midline approach to intrinsic cerebellar tumour
 Midline approach to intrinsic brain stem or 4th ventricle tumour
 Retrosigmoid approach to intrinsic cerebellar tumour
 Retrosigmoid approach to intrinsic brain stem tumour
 Craniotomy for other intrinsic cerebral tumour
 Stereotactic biopsy of intrinsic cerebral tumour
 Burr hole biopsy of intrinsic cerebral tumour (+/- image guidance)
 Endoscopic biopsy of intrinsic cerebral tumour
 Craniotomy for midline ventricular lesion (eg colloid cyst)
 Endoscopic excision / drainage of ventricular lesion (eg colloid cyst)
 Supratentorial craniotomy for benign lesions (excl. meningioma)
 Retrosigmoid craniotomy for benign lesions (excl. schwannoma and meningioma)
 Midline posterior fossa craniotomy for benign lesions (excl. meningioma)
 Transoral / transfacial approach to skull base tumour
 Supratentorial skull base approach to skull base tumour
 Infratentorial skull base approach to skull base tumour
 Excision of meningioma - convexity
 Excision of meningioma - sphenoid ridge
 Excision of meningioma - subfrontal
 Excision of meningioma - parasagittal
 Excision of meningioma - falx
 Retrosigmoid craniotomy and excision of meningioma
 Midline posterior fossa craniotomy and excision of meningioma
 Excision of meningioma - Other
 Trans-sphenoidal excision of pituitary adenoma
 Transcranial approach to sellar or suprasellar lesion
 Trans-sphenoidal biopsy of sellar lesion (not adenoma)
 Infratentorial, supracerebellar approach to pineal region tumour
 Supratentorial, suboccipital approach to pineal region tumour
 Interhemispheric approach to pineal region tumour
 Hemispherectomy (functional or anatomic) for epilepsy
 Temporal lobectomy for epilepsy
 Lesionectomy for epilepsy
 Vagal nerve stimulator for epilepsy
 Implantation of depth electrodes
 Thalamotomy for movement disorder
 Pallidotomy for movement disorder
 Brain stimulation for movement disorder / pain
 Revision / removal of brain stimulator or other cortical device
 Psychosurgery
 Middle fossa approach to vestibular schwannoma
 Retrosigmoid approach to vestibular schwannoma
 Translabrynthine approach to vestibular schwannoma
 Excision of lesion of other cranial nerve
 Microvascular decompression of trigeminal nerve
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Reference Operation Groups

Adult 16 and over yrs old (min 1130)

Craniotomy for extradural haematoma
 Craniotomy for subdural haematoma
 Burr hole/craniectomy for subdural collection (incl CSDH)
 Craniotomy for removal of foreign body/penetrating injury
 Evacuation of traumatic intracerebral haematoma/confusion
 Elevation of depressed skull fracture
 Fixation of facial fractures
 Fixation of mandibular fracture
 Supratentorial decompressive craniectomy
 Dural repair for CSF fistula
 Clipping of anterior circulation aneurysm
 Clipping of posterior circulation aneurysm
 Endovascular embolisation of intracranial aneurysm
 Embolisation of AVM
 Endovascular occlusion of artery
 Other interventional radiological procedure
 Cerebral angiogram
 Craniotomy and excision of AVM
 Craniotomy and excision of Cavernoma
 Craniotomy for dural AVM
 Anastomosis of cerebral artery
 Craniotomy for spontaneous ICH (supratentorial)

Craniotomy for spontaneous ICH (infratentorial)
 Carotid endarterectomy
 Posterior fossa craniectomy (for stroke)
 Craniotomy for frontal intrinsic cerebral tumour
 Craniotomy for temporal intrinsic cerebral tumour
 Craniotomy for parietal intrinsic cerebral tumour
 Craniotomy for occipital intrinsic cerebral tumour
 Midline approach to intrinsic cerebellar tumour
 Midline approach to intrinsic brain stem or 4th ventricle tumour
 Retrosigmoid approach to intrinsic cerebellar tumour
 Retrosigmoid approach to intrinsic brain stem tumour
 Craniotomy for other intrinsic cerebral tumour
 Stereotactic biopsy of intrinsic cerebral tumour
 Burr hole biopsy of intrinsic cerebral tumour (+/- image guidance)
 Endoscopic biopsy of intrinsic cerebral tumour
 Craniotomy for midline ventricular lesion (eg colloid cyst)
 Endoscopic excision / drainage of ventricular lesion (eg colloid cyst)
 Supratentorial craniotomy for benign lesions (excl. meningioma)
 Retrosigmoid craniotomy for benign lesions (excl. schwannoma and meningioma)
 Midline posterior fossa craniotomy for benign lesions (excl. meningioma)
 Transoral / transfacial approach to skull base tumour
 Supratentorial skull base approach to skull base tumour
 Infratentorial skull base approach to skull base tumour
 Excision of meningioma - convexity
 Excision of meningioma - sphenoid ridge
 Excision of meningioma - subfrontal
 Excision of meningioma - parasagittal
 Excision of meningioma - falx
 Retrosigmoid craniotomy and excision of meningioma
 Midline posterior fossa craniotomy and excision of meningioma
 Excision of meningioma - Other
 Trans-sphenoidal excision of pituitary adenoma
 Transcranial approach to sellar or suprasellar lesion
 Trans-sphenoidal biopsy of sellar lesion (not adenoma)
 Infratentorial, supracerebellar approach to pineal region tumour
 Supratentorial, suboccipital approach to pineal region tumour
 Interhemispheric approach to pineal region tumour
 Hemispherectomy (functional or anatomic) for epilepsy
 Temporal lobectomy for epilepsy
 Lesionectomy for epilepsy
 Vagal nerve stimulator for epilepsy
 Implantation of depth electrodes
 Thalamotomy for movement disorder
 Pallidotomy for movement disorder
 Brain stimulation for movement disorder / pain
 Revision / removal of brain stimulator or other cortical device
 Psychosurgery
 Middle fossa approach to vestibular schwannoma
 Retrosigmoid approach to vestibular schwannoma
 Translabrynthine approach to vestibular schwannoma
 Excision of lesion of other cranial nerve
 Microvascular decompression of trigeminal nerve
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Reference Operation Groups

Retrosigmoid

Retrosigmoid approach to intrinsic cerebellar tumour
 Retrosigmoid approach to intrinsic brain stem tumour
 Retrosigmoid craniotomy for benign lesions (excl. schwannoma and meningioma)
 Retrosigmoid craniotomy and excision of meningioma
 Retrosigmoid approach to vestibular schwannoma
 Microvascular decompression of trigeminal nerve
 Microvascular decompression of facial nerve

Midline posterior fossa

Midline approach to intrinsic cerebellar tumour
 Midline approach to intrinsic brain stem or 4th ventricle tumour
 Midline posterior fossa craniotomy for benign lesions (excl. meningioma)
 Midline posterior fossa craniotomy and excision of meningioma
 Infratentorial, supracerebellar approach to pineal region tumour
 Foramen magnum decompression with durotomy

Microscope

Image guidance

Endoscopy

Cervical internal fixation - anterior

Anterior PEG spinal fixation
Anterior cervical fusion
Primary anterior cervical discectomy +/- graft
Other anterior cervical decompression
Revision anterior cervical decompression

Cervical internal fixation - posterior

Posterior C1/2 spinal fixation
Posterior cervical fusion
Primary Posterior Cervical Laminectomy or laminoplasty
Other posterior cervical decompression
Revision posterior cervical decompression
Posterior cervical foraminotomy

Craniocervical fusion

Occipito-Cervical fusion (with instrumentation)

Thoracolumbar fixation - anterior

Transthoracic excision of thoracic disc
Other anterior thoracic decompression
Primary anterior lumbar surgery for disc/degen disease
Revision anterior lumbar surgery for disc/degen disease
Anterior Lumbar Interbody Fusion
Anterior thoracic fusion

Thoracolumbar fixation - posterior

Posterior / lateral excision of thoracic disc
Other posterior thoracic decompression
Primary lumbar laminectomy for disc/degen disease
Other decompressive posterior lumbar surgery
Revision posterior lumbar surgery for disc/degen disease
Posterior Lumbar Interbody Fusion
Posterior thoracic fusion
Posterior Lumbar Fusion

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Reference Operation Groups

1: Advanced adult supratentorial (min 10)

Clipping of anterior circulation aneurysm
Clipping of posterior circulation aneurysm
Craniotomy and excision of AVM
Craniotomy and excision of Cavernoma
Craniotomy for midline ventricular lesion (eg colloid cyst)
Excision of meningioma - sphenoid ridge
Excision of meningioma - subfrontal
Transcranial approach to sellar or suprasellar lesion
Infratentorial, supracerebellar approach to pineal region tumour
Supratentorial, suboccipital approach to pineal region tumour
Interhemispheric approach to pineal region tumour
Hemispherectomy (functional or anatomic) for epilepsy
Temporal lobectomy for epilepsy
Lesionectomy for epilepsy

2: Endoscopic and transphenoidal (min 10)

Endoscopic biopsy of intrinsic cerebral tumour
Endoscopic excision / drainage of ventricular lesion (eg colloid cyst)
Trans-sphenoidal excision of pituitary adenoma
Trans-sphenoidal biopsy of sellar lesion (not adenoma)
Endoscopic third ventriculostomy
Other Endoscopic Procedure (except biopsy)

3: Convexity and Falcine meningiomas (min 10)

Excision of meningioma - convexity
Excision of meningioma - parasagittal
Excision of meningioma - falx
Excision of meningioma - Other

4: Advanced adult infratentorial (min 10)

Craniotomy for spontaneous ICH (infratentorial)
Midline approach to intrinsic cerebellar tumour
Midline approach to intrinsic brain stem or 4th ventricle tumour
Retrosigmoid approach to intrinsic cerebellar tumour

Retrosigmoid approach to intrinsic brain stem tumour
Retrosigmoid craniotomy for benign lesions (excl. schwannoma and meningioma)
Midline posterior fossa craniotomy for benign lesions (excl. meningioma)
Transoral / transfacial approach to skull base tumour
Infratentorial skull base approach to skull base tumour
Retrosigmoid craniotomy and excision of meningioma
Midline posterior fossa craniotomy and excision of meningioma
Middle fossa approach to vestibular schwannoma
Retrosigmoid approach to vestibular schwannoma
Translabrynthine approach to vestibular schwannoma
Microvascular decompression of trigeminal nerve
Microvascular decompression of facial nerve

5: Intradural spine (min 5)

Foramen magnum decompression with durotomy
Surgery for spinal AVM
Surgery for spinal cavernoma
Evacuation of primary spinal subdural haematoma
Biopsy of intramedullary spinal cord lesion
Excision / debulking of intramedullary spinal cord lesion
Excision of spinal meningioma
Excision of spinal neurofibroma
Untethering of spinal cord
Closure of myelomeningocele
Other surgery for spinal dysraphism
Excision of other intradural, extramedullary lesion
Closure of encephalocele

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6: Advanced paed supratentorial (min 1)

Clipping of anterior circulation aneurysm
Clipping of posterior circulation aneurysm
Craniotomy and excision of AVM
Craniotomy and excision of Cavernoma
Craniotomy for dural AVM
Craniotomy for frontal intrinsic cerebral tumour
Craniotomy for temporal intrinsic cerebral tumour
Craniotomy for parietal intrinsic cerebral tumour
Craniotomy for occipital intrinsic cerebral tumour
Craniotomy for other intrinsic cerebral tumour
Craniotomy for midline ventricular lesion (eg colloid cyst)
Supratentorial craniotomy for benign lesions (excl. meningioma)
Excision of meningioma - convexity
Excision of meningioma - sphenoid ridge
Excision of meningioma - subfrontal
Excision of meningioma - parasagittal
Excision of meningioma - falx
Excision of meningioma - Other
Transcranial approach to sellar or suprasellar lesion
Supratentorial, suboccipital approach to pineal region tumour
Interhemispheric approach to pineal region tumour
Hemispherectomy (functional or anatomic) for epilepsy
Temporal lobectomy for epilepsy
Lesionectomy for epilepsy

7: Advanced paed infratentorial (min 1)

Midline approach to intrinsic cerebellar tumour
Midline approach to intrinsic brain stem or 4th ventricle tumour
Retrosigmoid approach to intrinsic cerebellar tumour
Retrosigmoid approach to intrinsic brain stem tumour
Retrosigmoid craniotomy for benign lesions (excl. schwannoma and meningioma)
Midline posterior fossa craniotomy for benign lesions (excl. meningioma)
Transoral / transfacial approach to skull base tumour
Retrosigmoid craniotomy and excision of meningioma
Midline posterior fossa craniotomy and excision of meningioma
Infratentorial, supracerebellar approach to pineal region tumour

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