Model Coverage Policy



Principles of Coding for Intraoperative Neurophysiologic Monitoring (IOM) and Testing¹

BACKGROUND

Intraoperative neurophysiologic monitoring (IOM) and testing are medical procedures that have been in standard practice for almost 30 years. The procedures allow monitoring of neurophysiologic signals during a surgical procedure whenever the neuroaxis is at risk as a consequence of either the surgical manipulation or the surgical environment. IOM is an umbrella monitoring term and includes electroencephalography (EEG), cranial nerve evoked potentials (EPs), brain-stem auditory EPs (BAEPs), motor EPs (MEP), somatosensory EPs (SEP), nerve conduction, and electromyography (EMG) signals. Much like the other instrumental clinical monitoring technologies,

such as cardiac or capnic monitoring, randomized controlled trials establishing efficacy of IOM have not been done. Current best data, accumulated over the past two decades, have been derived through comparisons with historical controls and in the number of complications avoided through IOM. Difficulties in procedural blinding would impede accumulation of randomized controlled data. This status is not unlike that of intraoperative transesophageal echocardiography (TEE) or perioperative echocardiography (POE), two other widely-endorsed monitoring technologies (Memtsoudis et. al., 2006, Ng 2009). Both neurophysiologic IOM and TEE/POE are recognized medical practice standards reliant on experience, case series and retrospective analyses.

IOM is of value in surgeries at diverse locations. The types of diseases for which monitoring is helpful also vary. For instance IOM may be necessary for carotid endarterectomies, removal of cortical-hemispheric lesions, extirpation of epileptic foci, brain stem surgeries, spinal corrections and peripheral nerve repairs to name some examples. IOM is used in neurosurgery, orthopedic, vascular, cardiothoracic and other surgical specialties. A compilation of recent reviews for these various areas is available (Nuwer, 2008). This policy addresses only surgical intraoperative monitoring and does not address monitoring performed in radiologic suites. The quality, extent and type of monitoring are dependent on the nature and location of the lesions. The utility of monitoring is exquisitely reliant on the rigors of the monitoring procedure and protocols, and the clinical expertise of the

monitoring physician. We list below several significant instances each of which has independently demonstrated the value of IOM in averting neural injuries during surgery.

¹ Approved by the AAN Board of Directors on February 10, 2012: replaces previous AANPA policy (2010-12).

1. Value of EEG Monitoring in Carotid Surgery

Carotid occlusion, incident to carotid endarterectomies, poses a high risk for cerebral hemispheric injury. EEG monitoring is capable of detecting cerebral ischemia, a serious prelude to injury. Studies of continuous monitoring established the ability of EEG to correctly predict risks of postoperative deficits after a deliberate, but necessary, carotid occlusion as part of the surgical procedure (Redekop & Ferguson, 1992; Cloughesy et al., 1993; Woodworth et al., 2007). The surgeon can respond to adverse EEG events by raising blood pressure, implanting a shunt, adjusting a poorly functioning shunt, or performing other interventions.

2. Multicenter Data in Spinal Surgeries

An extensive multicenter study conducted in 1995 demonstrated that IOM using SEP reduced the risk of paraplegia by 60% in spinal surgeries (Nuwer et al., 1995). The incidence of false negative cases, wherein an operative complication

occurred without having been detected by the monitoring procedure, was small: 0.06% (Nuwer et al., 1995).

3. Technology Assessment of Monitoring in Spinal Surgeries

A technology assessment by the McGill University Health Center (Erickson et al., 2005) reviewed 11 studies and concluded that spinal IOM is capable of substantially reducing injury in surgeries that pose a risk to spinal cord integrity. It recommended combined SEP/MEP monitoring, under the presence or constant availability of a monitoring physician, for all cases of spinal surgery for which there is a risk of spinal cord injury.

4. Value of Combined Motor and Sensory Monitoring

Numerous studies of post-surgical paraparesis and quadriparesis have shown that both SEP and MEP monitoring had predicted adverse outcomes in a timely fashion (Schwartz et al., 2007; Lee et al., 2006; Nuwer



et al., 1995; Jones et al., 2003; Meyer et al., 1988; Pelosi et al., 2002; Hilibrand et al., 2004; Langeloo et al. 2003; Mostegl et al. 1988; Eggspuehler et al 2007; Leung et al. 2005; Khan et al., 2006; Sutter et al., 2007; Weinzieri et al., 2007). The timing of the predictions allowed the surgeons the opportunity to intervene and prevent adverse outcomes. The two different techniques (SEP and MEP) monitor different spinal cord tracts. Sometimes, one of the techniques cannot be used for practical purposes, for anesthetic reasons, or because of pre-operative absence of signals in those pathways. Thus, the decision about which of these techniques to use needs to be tailored to the individual patient's circumstances.

5. Protecting the Spinal Cord from Ischemia during **Aortic Procedures**

Studies have shown that IOM accurately predicts risks for spinal cord ischemia associated with clamping the aorta or ligating segmental spinal arteries (MacDonald & Janusz, 2002; Jacobs et al., 2000; Cunningham et al., 1987; Kaplan et al., 1986; Leung et al., 2005). IOM can assess whether the spinal cord is tolerating the degree of relative ischemia in these procedures. The surgeon can then respond by raising blood pressure, implanting a shunt, re-implanting segmental vessels, draining spinal fluid, or through other interventions.

6. Common Types of Alerting Events Observed During Monitoring

Another recent study (Lee et al., 2006) described types of neurophysiologic alerts and correlated them with postoperative neurological deficits that occurred during the course of 267 procedures involving anterior cervical spine surgery utilizing EMG, transcranial electrical motor and somatosensory evoked potential monitoring. In this study, 18.4 % of cases resulted in at least one intraoperative neurophysiologic alert; and major alerts believed to be

related to specific intraoperative surgical maneuvers were identified in 4.6% of the patients monitored. In 88% of the patients with relevant amplitude loss that was thought to be related to the surgical procedure, the signal response returned once appropriate intraoperative corrective measures were taken.

7. Value of EMG Monitoring

Selective posterior rhizotomy in cerebral palsy significantly reduces spasticity, increases range of motion, and improves functional skills (Staudt et al., 1995). Electromyography during this procedure can assist in selecting specific dorsal roots to transect. EMG can also be used in peripheral nerve procedures that pose a risk of injuries to nerves (Nuwer, 2008).

8. Futility of Monitoring Inappropriate Pathways

In order to be useful, monitoring should assess the appropriate sensory or motor pathways. Incorrect pathway monitoring could miss detection of neural compromise. Examples of "wrong pathway" monitoring have been shown to have resulted in adverse outcomes (Lesser et al., 1986).

9. Value of Spinal Monitoring using SSEP and MEPs

According to a recent review of spinal monitoring using SSEP and MEPs by the Therapeutics and Technology Assessment Subcommittee of the AAN and the American Clinical Neurophysiology Society, IOM is established as effective to predict an increased risk of the adverse outcomes of paraparesis, paraplegia, and quadriplegia in spinal surgery (4 Class I and 7 Class II studies) (Nuwer et al., 2012). Surgeons and other members of the operating team should be alerted to the increased risk of severe adverse neurologic outcomes in patients with important IOM changes (Level A).

NEUROPHYSIOLOGIC TECHNIQUES USED IN IOM

Several neurophysiologic testing modalities are useful during IOM. The location and type of surgery determine the chosen testing modality. The tests and codes listed here may be used individually or in combination.

- Electroencephalography (EEG);
 - With direct physician supervision, use codes 95822 plus 95940 and/or 95941
 - With general physician supervision, use code 95955
- Electrocorticography (ECoG);
 - Use code 95829
- Direct cortical stimulation to localize function;
 - Use codes 95961, 95962

- Deep brain stimulation electrode placement
 - Use codes 95961, 95962
- · Pallidotomy site testing;
 - Use codes 95961, 95962
- Somatosensory evoked potential (SEP) monitoring
 - Use codes 95925, 95926, 95927, or 95938 plus 95940 and/or 95941



- · Intraoperative SEP identification of the sensorimotor cortex
 - Use codes 95961, 95962
- Motor evoked potentials (MEP)
 - Use codes 95928, 95929, or 95939 plus 95940 and/ or 95941
- · Mapping the descending corticospinal tract
 - Use codes 95928, 95929, or 95939 plus 95940 and/
- Brainstem auditory evoked potentials
 - Use code 92585 plus 95940 and/or 95941
- Peripheral nerve stimulation and recording
 - Use one code from among codes 95907-95913, plus 95940 and/or 95941

- · Oculomotor, facial, trigeminal and lower cranial nerve monitoring
 - Use codes 95867, 95868 and/or 95933 plus 95940 and/or 95941
- EMG monitoring and testing of peripheral limb pathways
 - Use codes 95861, 95862 or 95870 plus 95940 and/ or 95941
- · Pedicle screw stimulation
 - Use codes 95861, 95862 or 95870 plus 95940 and/ or 95941
- Selective dorsal rhizotomy rootlet testing;
 - Use codes 95861, 95862 or 95870 plus 95940 and/ or 95941
- Transcranial electrical MEPs (tceMEPs) for external anal and urethral sphincter muscles monitoring.
 - Use code 95870 plus 95940 and/or 95941

LIMITATIONS ON COVERAGE

To derive optimal benefits from this technology it is incumbent on the IOM team to understand the limits of the technology, listed below.

1. Use of Qualified Personnel

IOM must be furnished by qualified personnel. For instance, the beneficial results of monitoring with SSEPs demonstrated by the 1995 multicenter study (Nuwer et al., 1995) showed fewer neurological deficits with experienced monitoring teams. While false positive events were significant in only 1% of cases, the negative predictive value for this technique was over 99%. Thus, absence of events during monitoring signifies and assures safety of the procedure. In general it is recommended that the monitoring team strive to optimize recording and interpreting conditions such that:

- · A well-trained, experienced technologist, present at the operating site, is recording and monitoring a single surgical case; and
- · A monitoring clinical neurophysiologist supervises the technologist.

2. Effects of the Depth of Anesthesia and Muscle Relaxation

The level of anesthesia may also significantly impact on the ability to interpret intraoperative studies; therefore, preoperative planning and continuous communication between the anesthesiologist and the monitoring team is expected.

3. Recording Conditions

It is also expected that a specifically trained technologist or non-physician monitorist, preferably with credentials from the American Board of Neurophysiologic Monitoring or the American Board of Registration of Electrodiagnostic Technologists (ABRET), will be in continuous attendance in the operating room, with either the physical or electronic capability for real-time communication with the supervising physician.

4. Monitoring Necessity

Intraoperative monitoring is not medically necessary in situations where historical data and current practices reveal no potential for damage to neural integrity during surgery. Monitoring under these circumstances will exceed the patient's medical need (Social Security Act (Title XVIII); Medicare Benefit Policy Manual).

5. Communications

Monitoring may be performed from a remote site, as long as a well-trained technologist (see detail above) is in continuous attendance in the operating room, with either the physical or electronic ability for prompt real-time communication with the supervising monitoring physician.

6. Supervision Requirements

Different levels of physician supervision apply to different kinds of IOM procedures. Code 95940 supervision require continuous physician monitoring in the operating room (OR). Code 95941 supervision require continuous physician monitoring which can be provided online or in the operating room (OR). Codes 95961-95962 (Functional cortical localization with brain stimulation) require personal physician supervision in the OR.



USE OF CODES 95940, 95941 AND THEIR BASE PROCEDURE CODES

- 1. IOM is a procedure that describes ongoing electrophysiologic testing, and monitoring performed during surgical procedures. It includes only the time spent during an ongoing, concurrent, real-time electrophysiologic monitoring.
- 2. Time spent in clinical activities, other than those above, should not be billed under 95940 and/or 95941. The time spent performing or interpreting the baseline electrophysiologic studies must not be counted as intraoperative monitoring, but represents separately reportable procedures.

For example, 95940 and 95941 are distinct from performance of specific types of pre-procedural baseline electrophysiologic studies (95860, 95861, 95867, 95868, 95907-95913. 95933, 95937) or other interpretation of specific types of baseline electrophysiologic studies (95985, 95922, 95925-95930, 95938, 95939).

The supervising physician time spent in the operating room includes the time from entering until leaving the operating room, except for the time spent interpreting the baseline testing. For remote monitoring, it includes time from initiating to discontinuing monitoring except for the time spent interpreting the baseline testing.

- 3. Note that the supervision requirements for each underlying test or primary test modality vary, and must be met (Medicare Benefit Policy Manual). For example, cortical mapping during monitoring requires personal supervision.
- 4. Codes 95940 and 95941 may not be reported by the surgeon or anesthesiologist performing an operative

- procedure, since it is included in the global package if they serve as the IOM supervising physician.. The surgeon performing an operative procedure may not bill other 90000 series neurophysiology testing codes for intraoperative neurophysiology testing (e.g., 92585, 95822, 95860, 95861, 95867, 95868, 95870, 95907-95913, 95925-95939) since they are also included in the global package (Medicare Benefit Policy Manual). However, when IOM or baseline procedures are performed by a different, monitoring physician during the procedure, it is separately reportable by the monitoring supervising physician.
- 5. Codes 95940 and 95941 is performed in the hospital setting. Monitoring of a patient with codes 95940 and 95941 should use off campus-outpatient hospital (site 19), hospital site of service (site 21), hospital outpatient surgery center (site 22), or ambulatory surgical center (site 24) even if the monitoring physician is located in an office. When supervising and interpreting IOM on a hospitalized patient, the supervising physician codes uses modifier -26.
- 6. Code 95940 requires one-on-one monitoring. Simultaneous cases cannot be coded with 95940. Code 94941 allows for reporting simultaneous cases without division of time between them. The number of cases monitored at any one time will vary, but should not exceed the requirements for providing adequate attention to each. For example, a 2010 AAN survey of IOM practitioners shows that on average 90% of monitoring hours are spent monitoring three (3) or fewer simultaneous cases and that practitioners rarely monitor more than six (6) cases simultaneously (2010 AAN Survey of IOM Practitioners – unpublished).

CPT/HCPCS CODES

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Codes 95940, 95941 describe ongoing neurophysiologic monitoring, testing, and data interpretation distinct from performance of specific type(s) of baseline neurophysiologic study(s) performed during surgical procedures. When the service is performed by the surgeon or anesthesiologist, the professional services are included in the surgeon's or anesthesiologists's primary

services code(s) for the procedure and are not reported separately. Do not report these codes for automated monitoring devices that do not require continuous attendance by a professional qualified to interpret the testing and monitoring.

Recording and testing are performed either personally or by a technologist who is physically present with the patient during the service. Supervision is performed either in the operating room or by real time connection outside the operating room. The monitoring professional must be solely dedicated to performing the intraoperative neurophysiologic monitoring



and must be available to intervene at all times during the service as necessary, for the reported time period(s). For any given period of time spent providing these services, the service takes full attention and, therefore, other clinical activities beyond providing and interpreting of monitoring cannot be provided during the same period of time.

Throughout the monitoring, there must be provisions for continuous and immediate communication directly with the operating room team in the surgical suite. One or more simultaneous cases may be reported (95941). When monitoring more than one procedure, there must be the immediate ability to transfer patient monitoring to another monitoring professional during at he surgical procedure should that individual's exclusive attention be required for another procedure. Report 95941 for all remote or non-oneon-one monitoring time connected to each case regardless of overlap with other cases.

Codes 95940, 95941 include only the ongoing neurophysiologic monitoring time distinct from performance of specific type(s) of baseline neurophysiologic study(s), or other services such as intraoperative functional cortical or subcortical mapping. Codes 95940 and 95941 are reported based upon the time spent monitoring only, and not the number of baseline tests performed or parameters monitored. The time spent performing or interpreting the baseline neurophysiologic study(ies) should not be counted as intraoperative monitoring, but represents separately reportable procedures. When reporting 95940 and 95941, the same neurophysiologic study(ies) performed at baseline should be reported not more than once per operative session. Baseline study reporting is based upon the total unique studies performed. For example, if during the course of baseline testing and one-on-one monitoring, two separate nerves have motor testing performed in conjunction with limited single extremity EMG, then 95885 and 95907 would be reported in addition to 95940. For procedures that last beyond midnight, report services using the day on which the monitoring began and using the total time monitored.

Code 95940 is reported per 15 minutes of service. Code 95940 requires reporting only the portion of time the monitoring professional was physically present in the operating room providing one-on-one patient monitoring and no other cases may be monitored at the same time. Report continuous intraoperative neurophysiologic monitoring in the operating room (95940) in addition to the services related to monitoring from outside the operating room (95941).

Code 95941 should be used once per hour even if multiple methods of neurophysiologic monitoring are used during the time. Code 95941 requires the monitoring of neurophysiological data that is collected from the operating room continuously on-line in real time via a secure data link. When reporting 95941, real-time ability must be available through sufficient data bandwidth transfer rates to view and interrogate the neurophysiologic data contemporaneously.

Report 95941 for all cases in which there was no physical presence by the monitoring professional in the operating room during the monitoring time or when monitoring more than one case in an operating room. It is also used to report the time of monitoring physically performed outside of the operating room in those cases where monitoring occurred both within and outside the operating room. Do not report 95941 if the monitoring lasted 30 minutes or less.

Intraoperative neurophysiology monitoring codes 95940 and 95941 are each used to report the total duration of respective time spent providing each services, even if that time is not in a single continuous block.

95940 Continuous intraoperative neurophysiology monitoring in the operating room, one on one monitoring requiring personal attendance, each 15 minutes (List separately in addition to code for primary procedure)

95941 Continuous intraoperative neurophysiologic monitoring, from outside the operating room (remote or nearby) or for monitoring of more than one case while in the operating room, per hour (List separately in addition to code for primary procedure)

> (Use 95940 & 95941 in conjunction with the study performed, 92585, 95822, 95860-95870, 95907-95913, 95925-95939)

(For time spent waiting on standby before monitoring, use 99360) (For electrocorticography, use 95829)

(For intraoperative EEG during nonintracranial surgery, use 95955)

(For intreaoperative functional cortical or subcortical mapping, see 95961- 95962)

(For intraoperative neurostimulator programming and analysis, see 95970- 95979)



CODES FOR PRIMARY PROCEDURES USED AS BASE CODES

Short-latency somatosensory evoked potential for evoked response audiometry and/or testing of the central nervous system; comprehensive Short-latency somatosensory evoked potential study, stimulation of any/all peripheral nerves or skin sites, recording from the central nervous system; in upper limbs				
Posso prospective precipital periodic process or sleep only study, stimulation of any/all peripheral nerves or skin sites, recording from the central nervous system; in lower limbs process or skin sites, recording from the central nervous system; in lower limbs process or skin sites, recording from the central nervou	92585	audiometry and/or testing of the central nervous	95925	study, stimulation of any/all peripheral nerves or skin sites, recording from the central nervous
Needle electromyography; one extremity with or without related paraspinal areas 95861 Needle electromyography; two extremities with or without related paraspinal areas 95867 Needle electromyography; cranial nerve supplied muscle(s), unilateral 95868 Needle electromyography; cranial nerve supplied muscles, bilateral 95870 Needle electromyography; cranial nerve supplied muscles, bilateral 95870 Needle electromyography; limited study of muscles in one extremity or non-limb (axial) muscles (unilateral or bilateral), other than thoracic paraspinal, cranial nerve supplied muscles, or sphincters 95907 Nerve conduction studies; 1-2 studies 95908 3-4 studies 95909 5-6 studies 95900 7-8 studies 95900 7-8 studies 95901 11-12 studies 95901 13 or more studies 95903 Central motor evoked potential study (transcranial motor stimulation); lower limbs 95908 Short-latency somatosensory evoked potential study (transcranial motor stimulation); lower limbs 95908 11-12 studies 95937 Neuromuscular junction testing (repetitive stimulation, paired stimuli), each nerve, any one method 95910 11-12 studies 95931 Short-latency somatosensory evoked potential study, stimulation of any/all peripheral nerves or skin sites, recording from the central nervous system; in upper and lower limbs 95911 11-12 studies 95939 Central motor evoked potential study (transcranial nerves or skin sites, recording from the central nervous system; in upper and lower limbs	95822		95926	Short-latency somatosensory evoked potential
Needle electromyography; two extremities with or without related paraspinal areas 95927 Short-latency somatosensory evoked potential study, stimulation of any/all peripheral nerves or skin sites, recording from the central nervous system; in the trunk or head 95868 Needle electromyography; cranial nerve supplied muscles, bilateral 95928 Central motor evoked potential study (transcranial motor stimulation); upper limbs 95870 Needle electromyography; limited study of muscles in one extremity or non-limb (axial) muscles (unilateral or bilateral), other than thoracic paraspinal, cranial nerve supplied muscles, or sphincters 95930 Visual evoked potential 95930 Visual evoked potential 95930 Visual evoked potential 95930 Policularis oculi (blink) reflex, by electrodiagnostic testing 95930 95930 Policularis oculi (blink) reflex, by electrodiagnostic testing 95930 Policularis oculi (blink) reflex, by el	95860			or skin sites, recording from the central nervous
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muscles, bilateral motor stimulation); upper limbs Needle electromyography; limited study of muscles in one extremity or non-limb (axial) muscles (unilateral or bilateral), other than thoracic paraspinal, cranial nerve supplied muscles, or sphincters 95907 Nerve conduction studies; 1-2 studies 95908 3-4 studies 95909 5-6 studies 95910 7-8 studies 95911 9-10 studies 95912 11-12 studies 95913 Neuromuscular junction testing (repetitive stimulation, paired stimuli), each nerve, any one method 95912 11-12 studies 95939 Central motor evoked potential study (transcranial motor stimulation); lower limbs 95930 Visual evoked potential 95931 Neuromuscular junction testing (repetitive stimulation, paired stimuli), each nerve, any one method 95918 Short-latency somatosensory evoked potential study, stimulation of any/all peripheral nerves or skin sites, recording from the central nervous system; in upper and lower limbs 95913 13 or more studies 95939 Central motor evoked potential study (transcranial	95867			or skin sites, recording from the central nervous
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95970

USE OF OTHER PROCEDURE CODES FOR INTRAOPERATIVE MONITORING AND/OR TESTING

Implanted Device Neurophysiology Codes

Codes for use with implanted devices (95961, 96962, 95970-95979) Two series of codes are used to locate the proper sites for deep brain or spinal cord implanted devices and to test the device's integrity.

Codes 96961 (first hour) and 96962 (additional hours) are used for intraoperative testing of electrode placement. Code 95970 is used to check a device's integrity. Rarely, the devices are also programmed while in the operating room, and when done those services are coded using 95971 through 95979. These codes are:

Electronic analysis of implanted neurostimulator pulse generator system (eg, rate, pulse amplitude and duration, configuration of wave form, battery status, electrode selectability, output modulation, cycling, impedance and patient compliance measurements); simple or complex brain, spinal cord, or peripheral (ie, cranial nerve, peripheral nerve, autonomic nerve, neuromuscular) neurostimulator pulse generator/ transmitter, without reprogramming

95971 Electronic analysis of implanted neurostimulator pulse generator system (eg, rate, pulse amplitude and duration, configuration of wave form,



battery status, electrode selectability, output			
modulation, cycling, impedance and patient			
compliance measurements); simple spinal cord, or			
peripheral (ie, peripheral nerve, autonomic nerve,			
neuromuscular) neurostimulator pulse generator/			
transmitter, with intraoperative or subsequent			
programming			

95972 Electronic analysis of implanted neurostimulator pulse generator system (eg, rate, pulse amplitude and duration, configuration of wave form, battery status, electrode selectability, output modulation, cycling, impedance and patient compliance measurements); complex spinal cord, or peripheral (except cranial nerve) neurostimulator pulse generator/transmitter, with intraoperative or subsequent programming, first hour

95973 Electronic analysis of implanted neurostimulator pulse generator system (eg, rate, pulse amplitude and duration, configuration of wave form, battery status, electrode selectability, output modulation, cycling, impedance and patient compliance measurements); complex spinal cord, or peripheral (except cranial nerve) neurostimulator pulse generator/transmitter, with intraoperative or subsequent programming, each additional 30 minutes after first hour (List separately in addition to code for primary procedure)

95974 Electronic analysis of implanted neurostimulator pulse generator system (eg, rate, pulse amplitude and duration, configuration of wave form, battery status, electrode selectability, output modulation, cycling, impedance and patient compliance measurements); complex cranial nerve neurostimulator pulse generator/transmitter, with intraoperative or subsequent programming, with or without nerve interface testing, fi hour

95975 Electronic analysis of implanted neurostimulator pulse generator system (eg. rate, pulse amplitude and duration, configuration of wave form, battery status, electrode selectability, output modulation, cycling, impedance and patient

compliance measurements); complex cranial nerve neurostimulator pulse generator/transmitter, with intraoperative or subsequent programming, each additional 30 minutes after first hour (List separately in addition to code for primary procedure)

Electronic analysis of implanted neurostimulator pulse generator system (eg, rate, pulse amplitude and duration, battery status, electrode selectability and polarity, impedance and patient compliance measurements), complex deep brain neurostimulator pulse generator/ transmitter, with initial or subsequent programming; first hour

Electronic analysis of implanted neurostimulator pulse generator system (eg, rate, pulse amplitude and duration, battery status, electrode selectability and polarity, impedance and patient compliance measurements), complex deep brain neurostimulator pulse generator/ transmitter, with initial or subsequent programming; each additional 30 minutes after first hour (List separately in addition to code for primary procedure)

Functional Cortical Mapping Codes

95978

95979

95962

95829 Electrocorticogram at surgery (separate procedure)

95961 Functional cortical and subcortical mapping by stimulation and/ or recording of electrodes on brain surface, or of depth electrodes, to provoke seizures or identify vital brain structures; initial hour of physician attendance

> Functional cortical and subcortical mapping by stimulation and/ or recording of electrodes on brain surface, or of depth electrodes, to provoke seizures or identify vital brain structures; each additional hour of physician attendance (List separately in addition to code for primary procedure)

Three codes are used in the operating room to locate abnormal regions or regions that serve key brain functions. This includes the electrocorticography (ECoG) code 95829, which is used to record EEG directly from the exposed brain. This is used to find areas of cortex that are damaged or that may be the source of epileptic seizures. This also includes the functional cortical stimulation codes 95961 (first hour) and 95962 (additional hours). Most often those codes are used when the brain is stimulated electrically and the results are monitored behaviorally in a patient who is awake during neurosurgery. These guide the surgeon as to which portions of the exposed brain could or should be removed or which should be preserved.



APPENDIX A - DIAGNOSES THAT SUPPORT MEDICAL NECESSITY

		CD-10-CM codes listed below may be viewed lly necessary; however, there may be other	S14.134A	Anterior cord syndrome at C4 level of cervical spinal cord, initial encounter
	of conside	c codes not included in this list that are deserving eration for coverage. Such instances may require consideration.	S14.135A	Anterior cord syndrome at C5 level of cervical spinal cord, initial encounter
	171.3	Abdominal aortic aneurysm, ruptured	S14.136A	Anterior cord syndrome at C6 level of cervical spinal cord, initial encounter
	171.4	Abdominal aortic aneurysm, without rupture	S14.137A	Anterior cord syndrome at C7 level of cervical
	G95.11	Acute infarction of spinal cord (embolic) (nonembolic)	0044044	spinal cord, initial encounter
	H70.009	Acute mastoiitis without complications, unspecified ear		Anterior cord syndrome at T1 level of thoracic spinal cord, initial encounter
	M41.122	Adolescent idiopathic scoliosis, cervical region	324.131A	Anterior cord syndrome at T1 level of thoracic spinal cord, initial encounter
	M41.123	Adolescent idiopathic scoliosis, cervicothoracic region	S24.134A	Anterior cord syndrome at T11-T12 level of thoracic spinal cord, initial encounter
	M41.126	Adolescent idiopathic scoliosis, lumbar region	S24.134A	Anterior cord syndrome at T11-T12 level of
	M41.127	Adolescent idiopathic scoliosis, lumbosacral		thoracic spinal cord, initial encounter
		region	S24.132A	Anterior cord syndrome at T2-T6 level of thoracic spinal cord, initial encounter
	M41.129	Adolescent idiopathic scoliosis, site unspecified	S24 122 A	·
	M41.124	Adolescent idiopathic scoliosis, thoracic region	324.132A	Anterior cord syndrome at T2-T6 level of thoracic spinal cord, initial encounter
	M41.125	Adolescent idiopathic scoliosis, thoracolumbar region	S24.133A	Anterior cord syndrome at T7-T10 level of thoracic spinal cord, initial encounter
	M80.08XA	Age-related osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture	S24.133A	Anterior cord syndrome at T7-T10 level of thoracic spinal cord, initial encounter
	179.0	Aneurysm of aorta in diseases classified elsewhere	M47.012	Anterior spinal artery compression syndromes,
	G46.1	Anterior cerebral artery syndrome		cervical region
	S14.131A	Anterior cord syndrome at C1 level of cervical spinal cord, initial encounter	M47.013	Anterior spinal artery compression syndromes, cervicothoracic region
	S14.131A	Anterior cord syndrome at C1 level of cervical spinal cord, initial encounter	M47.016	Anterior spinal artery compression syndromes, lumbar region
	S14.132A	Anterior cord syndrome at C2 level of cervical spinal cord, initial encounter	M47.011	Anterior spinal artery compression syndromes, occipito-atlanto-axial region
	S14.132A	Anterior cord syndrome at C2 level of cervical spinal cord, initial encounter	M47.019	Anterior spinal artery compression syndromes, site unspecified
	S14.133A	Anterior cord syndrome at C3 level of cervical spinal cord, initial encounter	M47.014	Anterior spinal artery compression syndromes, thoracic region
	S14.133A	Anterior cord syndrome at C3 level of cervical spinal cord, initial encounter	M47.015	Anterior spinal artery compression syndromes, thoracolumbar region
	S14.134A	Anterior cord syndrome at C4 level of cervical	I71.8	Aortic aneurysm of unspecified site, ruptured
		spinal cord, initial encounter	I71.9	Aortic aneurysm of unspecified site, without rupture



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Q07.02	Arnold-Chiari syndrome with hydrocephalus	S14.123A	Central cord syndrome at C3 level of cervical spinal cord, initial encounter
Q07.01	Arnold-Chiari syndrome with spina bifida	S14 124 A	Central cord syndrome at C4 level of cervical
Q07.01	Arnold-Chiari syndrome with spina bifida	014.124/	spinal cord, initial encounter
Q07.03	Arnold-Chiari syndrome with spina bifida and hydrocephalus	S14.125A	Central cord syndrome at C5 level of cervical spinal cord, initial encounter
Q07.00	Arnold-Chiari syndrome without spina bifida or hydrocephalus	S14.125A	Central cord syndrome at C5 level of cervical spinal cord, initial encounter
Q28.2	Arteriovenous malformation of cerebral vessels	S14.126A	Central cord syndrome at C6 level of cervical
G80.4	Ataxic cerebral palsy		spinal cord, initial encounter
G50.1	Atypical facial pain	S14.126A	Central cord syndrome at C6 level of cervical
B16.4	Benigh neoplasm of bones of skull and face		spinal cord, initial encounter
D33.1	Benign neoplasm of brain, infratentorial	S14.127A	Central cord syndrome at C7 level of cervical spinal cord, initial encounter
D33.0	Benign neoplasm of brain, supratentorial	S1/ 127Δ	Central cord syndrome at C7 level of cervical
D33.2	Benign neoplasm of brain, unspecified	014.1277	spinal cord, initial encounter
D33.9	Benign neoplasm of central nervous system, unspecified	167.1	Cerebral aneurysm, nonruptured
D32.0	Benign neoplasm of cerebral meninges	163.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic
D33.3	Benign neoplasm of cranial nerves	163.12	Cerebral infarction due to embolism of basilar
D32.9	Benign neoplasm of meninges, unspecified		artery
D32.9	Benign neoplasm of meninges, unspecified	163.4	Cerebral infarction due to embolism of cerebral
D33.7	Benign neoplasm of other specified parts of central nervous system	163.422	arteries Cerebral infarction due to embolism of left anterior
D33.4	Benign neoplasm of spinal cord		cerebral artery
D32.1	Benign neoplasm of spinal meninges	163.132	Cerebral infarction due to embolism of left carotid artery
D16.6	Benign neoplasm of vertebral column	163.442	Cerebral infarction due to embolism of left
P14.8	Birth injuries to other parts of peripheral nervous		cerebellar artery
	system	163.412	Cerebral infarction due to embolism of left middle
P11.3	Birth injury to facial nerve		cerebral artery
P11.4	Birth injury to other cranial nerves	163.432	Cerebral infarction due to embolism of left posterior cerebral artery
P14.9	Birth injury to peripheral nervous system, unspecified	163.112	Cerebral infarction due to embolism of left
P11.5	Birth injury to spine and spinal cord	100.40	vertebral artery
G54.0	Brachial plexus disorders	163.49	Cerebral infarction due to embolism of other cerebral artery
G45.1	Carotid artery syndrome (hemispheric)	163.19	Cerebral infarction due to embolism of other
S14.121A	Central cord syndrome at C1 level of cervical spinal cord, initial encounter	163.421	precerebral artery Cerebral infarction due to embolism of right
S14.122A	Central cord syndrome at C2 level of cervical spinal cord, initial encounter	100.721	anterior cerebral artery



163.131	Cerebral infarction due to embolism of right carotid artery	163.39	Cerebral infarction due to thrombosis of other cerebral artery
163.441	Cerebral infarction due to embolism of right cerebellar artery	163.09	Cerebral infarction due to thrombosis of other precerebral artery
163.411	Cerebral infarction due to embolism of right middle cerebral artery	163.321	Cerebral infarction due to thrombosis of right anterior cerebral artery
163.431	Cerebral infarction due to embolism of right posterior cerebral artery	163.031	Cerebral infarction due to thrombosis of right carotid artery
l63.111	Cerebral infarction due to embolism of right vertebral artery	163.341	Cerebral infarction due to thrombosis of right cerebellar artery
163.429	Cerebral infarction due to embolism of unspecified anterior cerebral artery	163.311	Cerebral infarction due to thrombosis of right middle cerebral artery
163.139	Cerebral infarction due to embolism of unspecified carotid artery	163.331	Cerebral infarction due to thrombosis of right posterior cerebral artery
163.449	Cerebral infarction due to embolism of unspecified cerebellar artery	163.011	Cerebral infarction due to thrombosis of right vertebral artery
163.40	Cerebral infarction due to embolism of unspecified cerebral artery	163.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery
163.419	Cerebral infarction due to embolism of unspecified middle cerebral artery	163.039	Cerebral infarction due to thrombosis of unspecified carotid artery
163.439	Cerebral infarction due to embolism of unspecified posterior cerebral artery	163.349	Cerebral infarction due to thrombosis of unspecified cerebellar artery
l63.10	Cerebral infarction due to embolism of unspecified precerebral artery	163.30	Cerebral infarction due to thrombosis of unspecified cerebral artery
l63.119	Cerebral infarction due to embolism of unspecified vertebral artery	163.319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery
163.02	Cerebral infarction due to thrombosis of basilar artery	163.339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery
163.3	Cerebral infarction due to thrombosis of cerebral arteries	163.00	Cerebral infarction due to thrombosis of unspecified precerebral artery
163.322	Cerebral infarction due to thrombosis of left anterior cerebral artery	163.019	Cerebral infarction due to thrombosis of unspecified vertebral artery
163.032	Cerebral infarction due to thrombosis of left carotid artery	163.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar arteries
163.342	Cerebral infarction due to thrombosis of left cerebellar artery	163.522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery
163.312	Cerebral infarction due to thrombosis of left middle cerebral artery	163.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries
163.332	Cerebral infarction due to thrombosis of left posterior cerebral artery	163.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery
l63.012	Cerebral infarction due to thrombosis of left vertebral artery	163.512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery



163.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery	G80.9	Cerebral palsy, unspecified
163.212	Cerebral infarction due to unspecified occlusion or	G96.0	Cerebrospinal fluid leak
103.212	stenosis of left vertebral arteries	M50.03	Cervical disc disorder with myelopathy, cervicothoracic region
163.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	M50.01	Cervical disc disorder with myelopathy, high cervical region
163.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	M50.02	Cervical disc disorder with myelopathy, mid- cervical region
163.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	M50.00	Cervical disc disorder with myelopathy, unspecified cervical region
l63.29	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries	M50.13	Cervical disc disorder with radiculopathy, cervicothoracic region
l63.521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery	M50.11	Cervical disc disorder with radiculopathy, high cervical region
l63.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries	M50.12	Cervical disc disorder with radiculopathy, mid- cervical region
I63.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery	M50.10	Cervical disc disorder with radiculopathy, unspecified cervical region
I63.511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery	M50.93	Cervical disc disorder, unspecified, cervicothoracic region
I63.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery	M50.91	Cervical disc disorder, unspecified, high cervical region
l63.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral arteries	M50.92	Cervical disc disorder, unspecified, mid-cervical region
163.529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery	M50.90	Cervical disc disorder, unspecified, unspecified cervical region
163.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid arteries	G54.2	Cervical root disorders, not elsewhere classified
100 540	·	Q05.0	Cervical spina bifida with hydrocephalus
163.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery	Q05.5	Cervical spina bifida without hydrocephalus
163.50	Cerebral infarction due to unspecified occlusion or	H71.23	Cholesteatoma of mastoid, bilateral
	stenosis of unspecified cerebral artery	H71.23	Cholesteatoma of mastoid, bilateral
l63.519	Cerebral infarction due to unspecified occlusion or	H71.22	Cholesteatoma of mastoid, left ear
100 500	stenosis of unspecified middle cerebral artery	H71.21	Cholesteatoma of mastoid, right ear
163.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery	H71.20	Cholesteatoma of mastoid, unspecified ear
163.20	Cerebral infarction due to unspecified occlusion or	G51.3	Clonic hemifacial spasm
	stenosis of unspecified precerebral arteries	M48.52XA	Collapsed vertebra, not elsewhere classified,
163.219	Cerebral infarction due to unspecified occlusion or		cervical region, initial encounter for fracture
163.9	stenosis of unspecified vertebral arteries Cerebral infarction, unspecified	M48.53XA	Collapsed vertebra, not elsewhere classified, cervicothoracic region, initial encounter for fracture



1440 =01/4		0044404	0 1. 1
M48.56XA	Collapsed vertebra, not elsewhere classified, lumbar region, initial encounter for fracture	S24.113A	Complete lesion at T7-T10 level of thoracic spinal cord, initial encounter
M48.57XA	Collapsed vertebra, not elsewhere classified, lumbosacral region, initial encounter for fracture	S24.113A	Complete lesion at T7-T10 level of thoracic spinal cord, initial encounter
M48.51XA	Collapsed vertebra, not elsewhere classified, occipito-atlanto-axial region, initial encounter for	S34.111A	Complete lesion of L1 level of lumbar spinal cord, initial encounter
M48.58XA	fracture Collapsed vertebra, not elsewhere classified,	S34.111A	Complete lesion of L1 level of lumbar spinal cord, initial encounter
	sacral and sacrococcygeal region, initial encounter for fracture	S34.112A	Complete lesion of L2 level of lumbar spinal cord, initial encounter
M48.50XA	Collapsed vertebra, not elsewhere classified, site unspecified, initial encounter for fracture	S34.112A	Complete lesion of L2 level of lumbar spinal cord, initial encounter
M48.54XA	Collapsed vertebra, not elsewhere classified, thoracic region, initial encounter for fracture	S34.113A	Complete lesion of L3 level of lumbar spinal cord, initial encounter
M48.55XA	Collapsed vertebra, not elsewhere classified, thoracolumbar region, initial encounter for fracture	S34.113A	Complete lesion of L3 level of lumbar spinal cord, initial encounter
S14.111A	Complete lesion at C1 level of cervical spinal cord, initial encounter	S34.114A	Complete lesion of L4 level of lumbar spinal cord, initial encounter
S14.112A	Complete lesion at C2 level of cervical spinal cord, initial encounter	S34.114A	Complete lesion of L4 level of lumbar spinal cord, initial encounter
S14.113A	Complete lesion at C3 level of cervical spinal cord, initial encounter	S34.115A	Complete lesion of L5 level of lumbar spinal cord, initial encounter
S14.114A	Complete lesion at C4 level of cervical spinal cord, initial encounter	S34.115A	Complete lesion of L5 level of lumbar spinal cord, initial encounter
S14.115A	Complete lesion at C5 level of cervical spinal cord, initial encounter	S34.131A	Complete lesion of sacral spinal cord, initial encounter
S14.116A	Complete lesion at C6 level of cervical spinal cord, initial encounter	S34.119A	Complete lesion of unspecified level of lumbar spinal cord, initial encounter
S14.117A	Complete lesion at C7 level of cervical spinal cord, initial encounter	S34.119A	Complete lesion of unspecified level of lumbar spinal cord, initial encounter
S24.111A	Complete lesion at T1 level of thoracic spinal cord, initial encounter	G93.5	Compression of brain
S24.111A	Complete lesion at T1 level of thoracic spinal cord, initial encounter	S06.0X6A	Concussion with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial
S24.114A	Complete lesion at T11-T12 level of thoracic spinal cord, initial encounter		encounter
S24.114A	Complete lesion at T11-T12 level of thoracic spinal	Q27.9	Congenital malformation of peripheral vascular system, unspecified
	cord, initial encounter	Q76.2	Congenital spondylolisthesis
S24.112A	Complete lesion at T2-T6 level of thoracic spinal cord, initial encounter	Q76.2	Congenital spondylolisthesis
S24.112A	Complete lesion at T2-T6 level of thoracic spinal cord, initial encounter	M99.79	Connective tissue and disc stenosis of intervertebral foramina of abdomen and other regions



M99.76	Connective tissue and disc stenosis of intervertebral foramina of lower extremity	M46.48	Discitis, unspecified, sacral and sacrococcygeal region
M99.73	Connective tissue and disc stenosis of	M46.40	Discitis, unspecified, site unspecified
11100.70	intervertebral foramina of lumbar region	M46.44	Discitis, unspecified, thoracic region
M99.75	Connective tissue and disc stenosis of	M46.45	Discitis, unspecified, thoracolumbar region
	intervertebral foramina of pelvic region	G95.9	Disease of spinal cord, unspecified
M99.78	Connective tissue and disc stenosis of intervertebral foramina of rib cage	171.02	Dissection of abdominal aorta
M99.74	Connective tissue and disc stenosis of	177.71	Dissection of carotid artery
	intervertebral foramina of sacral region	167.0	Dissection of cerebral arteries, nonruptured
M99.72	Connective tissue and disc stenosis of	177.79	Dissection of other artery
	intervertebral foramina of thoracic region	171.01	Dissection of thoracic aorta
M99.77	Connective tissue and disc stenosis of intervertebral foramina of upper extremity	171.03	Dissection of thoracoabdominal aorta
M99.49	Connective tissue stenosis of neural canal of	I71.00	Dissection of unspecified site of aorta
	abdomen and other regions	177.74	Dissection of vertebral artery
M99.46	Connective tissue stenosis of neural canal of	Q01.8	Encephalocele of other sites
M00 42	lower extremity	Q01.9	Encephalocele, unspecified
M99.43	Connective tissue stenosis of neural canal of lumbar region	P14.0	Erb's paralysis due to birth injury
M99.45	Connective tissue stenosis of neural canal of	G06.2	Extradural and subdural abscess, unspecified
	pelvic region	G51.4	Facial myokymia
M99.48	Connective tissue stenosis of neural canal of rib cage	M40.36	Flatback syndrome, lumbar region
M99.44	Connective tissue stenosis of neural canal of sacral region	M40.37	Flatback syndrome, lumbosacral region
M99.42	Connective tissue stenosis of neural canal of	M40.30	Flatback syndrome, site unspecified
10199.42	thoracic region	M40.35	Flatback syndrome, thoracolumbar region
M99.47	Connective tissue stenosis of neural canal of upper extremity	S32.2XXB	Fracture of coccyx, initial encounter for open fracture
G95.81	Conus medullaris syndrome	S32.2XXB	Fracture of coccyx, initial encounter for open
R25.2	Cramp and spasm	C22 2VVD	fracture Fracture of coccyx, initial encounter for open
G52.9	Cranial nerve disorder, unspecified	332.2AAB	fracture of coccyx, illinar encounter for open fracture
G53	Cranial nerve disorders in diseases classified elsewhere	S32.2XXB	Fracture of coccyx, initial encounter for open fracture
M43.9	Deforming dorsopathy, unspecified	S12.9XXA	Fracture of neck, unspecified, initial encounter
M46.42	Discitis, unspecified, cervical region	S12.9XXA	Fracture of neck, unspecified, initial encounter
M46.46	Discitis, unspecified, lumbar region	Q01.0	Frontal encephalocele
M46.47	Discitis, unspecified, lumbosacral region	D18.02	Hemangioma of intracranial structures
M46.49	Discitis, unspecified, multiple sites in spine	S34.121A	Incomplete lesion of L1 level of lumbar spinal
M46.41	Discitis, unspecified, occipito-atlanto-axial region	n cord, initial encounter	cord, initial encounter



S34.121A	Incomplete lesion of L1 level of lumbar spinal cord, initial encounter	M41.04 Infantile idiopathic scoliosis, thoracic region
0044004	,	M41.05 Infantile idiopathic scoliosis, thoracolumbar region
S34.122A	Incomplete lesion of L2 level of lumbar spinal cord, initial encounter	M41.05 Infantile idiopathic scoliosis, thoracolumbar region
S34.122A	Incomplete lesion of L2 level of lumbar spinal	S44.32XA Injury of axillary nerve, left arm, initial encounter
	·	S44.31XA Injury of axillary nerve, right arm, initial encounter
S34.123A	Incomplete lesion of L3 level of lumbar spinal cord, initial encounter	S44.30XA Injury of axillary nerve, unspecified arm, initial encounter
S34.123A	Incomplete lesion of L3 level of lumbar spinal	S14.3XXA Injury of brachial plexus, initial encounter
	cord, initial encounter	S34.3XXA Injury of cauda equina, initial encounter
S34.124A	Incomplete lesion of L4 level of lumbar spinal cord, initial encounter	S34.3XXA Injury of cauda equina, initial encounter
S34.124A	Incomplete lesion of L4 level of lumbar spinal cord, initial encounter	S94.32XA Injury of cutaneous sensory nerve at ankle and foot level, left leg, initial encounter
S34.125A	Incomplete lesion of L5 level of lumbar spinal cord, initial encounter	S94.31XA Injury of cutaneous sensory nerve at ankle and foot level, right leg, initial encounter
S34.125A	Incomplete lesion of L5 level of lumbar spinal cord, initial encounter	S94.30XA Injury of cutaneous sensory nerve at ankle and foot level, unspecified leg, initial encounter
S34.132A	Incomplete lesion of sacral spinal cord, initial encounter	S54.32XA Injury of cutaneous sensory nerve at forearm level, left arm, initial encounter
S34.129A	Incomplete lesion of unspecified level of lumbar	S54.31XA Injury of cutaneous sensory nerve at forearm level, right arm, initial encounter
S34.129A	spinal cord, initial encounter Incomplete lesion of unspecified level of lumbar	S54.30XA Injury of cutaneous sensory nerve at forearm level, unspecified arm, initial encounter
	spinal cord, initial encounter	S74.21XA Injury of cutaneous sensory nerve at hip and high
M41.02	Infantile idiopathic scoliosis, cervical region	level, right leg, initial encounter
M41.02	Infantile idiopathic scoliosis, cervical region	S74.22XA Injury of cutaneous sensory nerve at hip and thigh
M41.03	Infantile idiopathic scoliosis, cervicothoracic region	level, left leg, initial encounter
M41.03	Infantile idiopathic scoliosis, cervicothoracic region	S74.20XA Injury of cutaneous sensory nerve at hip and thigh
M41.06	Infantile idiopathic scoliosis, lumbar region	level, unspecified leg, initial encounter
M41.06	Infantile idiopathic scoliosis, lumbar region	S84.22XA Injury of cutaneous sensory nerve at lower leg level, left leg, initial encounter
M41.07	Infantile idiopathic scoliosis, lumbosacral region	S84.21XA Injury of cutaneous sensory nerve at lower leg
M41.07	Infantile idiopathic scoliosis, lumbosacral region	level, right leg, initial encounter
M41.08	Infantile idiopathic scoliosis, sacral and sacrococcygeal region	S84.20XA Injury of cutaneous sensory nerve at lower leg level, unspecified leg, initial encounter
M41.08	Infantile idiopathic scoliosis, sacral and sacrococcygeal region	S44.52XA Injury of cutaneous sensory nerve at shoulder and upper arm level, left arm, initial encounter
M41.00	Infantile idiopathic scoliosis, site unspecified	S44.51XA Injury of cutaneous sensory nerve at shoulder and
M41.00	Infantile idiopathic scoliosis, site unspecified	upper arm level, right arm, initial encounter
M41.04	Infantile idiopathic scoliosis, thoracic region	S44.50XA Injury of cutaneous sensory nerve at shoulder and upper arm level, unspecified arm, initial encounter



- S94.22XA Injury of deep peroneal nerve at ankle and foot level, left leg, initial encounter
- S94.21XA Injury of deep peroneal nerve at ankle and foot level, right leg, initial encounter
- S94.20XA Injury of deep peroneal nerve at ankle and foot level, unspecified leg, initial encounter
- S64.491A Injury of digital nerve of left index finger, initial encounter
- S64.497A Injury of digital nerve of left little finger, initial encounter
- S64.493A Injury of digital nerve of left middle finger, initial encounter
- S64.495A Injury of digital nerve of left ring finger, initial encounter
- S64.32XA Injury of digital nerve of left thumb, initial encounter
- S64.498A Injury of digital nerve of other finger, initial encounter
- S64.490A Injury of digital nerve of right index finger, initial encounter
- S64.496A Injury of digital nerve of right little finger, initial encounter
- S64.492A Injury of digital nerve of right middle finger, initial encounter
- S64.494A Injury of digital nerve of right ring finger, initial encounter
- S64.31XA Injury of digital nerve of right thumb, initial encounter
- S64.40XA Injury of digital nerve of unspecified finger, initial encounter
- S64.30XA Injury of digital nerve of unspecified thumb, initial
- S74.12XA Injury of femoral nerve at hip and thigh level, left leg, initial encounter
- S74.11XA Injury of femoral nerve at hip and thigh level, right leg, initial encounter
- S74.10XA Injury of femoral nerve at hip and thigh level, unspecified leg, initial encounter
- S94.02XA Injury of lateral plantar nerve, left leg, initial encounter
- S94.01XA Injury of lateral plantar nerve, right leg, initial encounter

- S94.00XA Injury of lateral plantar nerve, unspecified leg, initial encounter
- S34.4XXA Injury of lumbosacral plexus, initial encounter
- S34.4XXA Injury of lumbosacral plexus, initial encounter
- S34.4XXA Injury of lumbosacral plexus, initial encounter
- S94.12XA Injury of medial plantar nerve, left leg, initial encounter
- S94.11XA Injury of medial plantar nerve, right leg, initial encounter
- S94.10XA Injury of medial plantar nerve, unspecified leg, initial encounter
- S54.12XA Injury of median nerve at forearm level, left arm, initial encounter
- S54.11XA Injury of median nerve at forearm level, right arm, initial encounter
- S54.10XA Injury of median nerve at forearm level, unspecified arm, initial encounter
- S44.12XA Injury of median nerve at upper arm level, left arm, initial encounter
- S44.11XA Injury of median nerve at upper arm level, right arm, initial encounter
- S44.10XA Injury of median nerve at upper arm level, unspecified arm, initial encounter
- S64.12XA Injury of median nerve at wrist and hand level of left arm, initial encounter
- S64.11XA Injury of median nerve at wrist and hand level of right arm, initial encounter
- S64.10XA Injury of median nerve at wrist and hand level of unspecified arm, initial encounter
- S44.42XA Injury of musculocutaneous nerve, left arm, initial encounter
- S44.41XA Injury of musculocutaneous nerve, right arm, initial encounter
- S44.40XA Injury of musculocutaneous nerve, unspecified arm, initial encounter
- S14.2XXA Injury of nerve root of cervical spine, initial encounter
- S14.2XXA Injury of nerve root of cervical spine, initial encounter
- S14.2XXA Injury of nerve root of cervical spine, initial encounter



S34.21XA	Injury of nerve root of lumbar spine, initial encounter	S84.802A	Injury of other nerves at lower leg level, left leg, initial encounter
S34.21XA	Injury of nerve root of lumbar spine, initial encounter	S84.802A	Injury of other nerves at lower leg level, left leg, initial encounter
S34.21XA	Injury of nerve root of lumbar spine, initial encounter	S84.801A	Injury of other nerves at lower leg level, right leg, initial encounter
S34.22XA	Injury of nerve root of sacral spine, initial encounter	S84.801A	Injury of other nerves at lower leg level, right leg, initial encounter
S34.22XA	Injury of nerve root of sacral spine, initial encounter	S84.809A	Injury of other nerves at lower leg level, unspecified leg, initial encounter
S34.22XA	Injury of nerve root of sacral spine, initial encounter	S84.809A	Injury of other nerves at lower leg level, unspecified leg, initial encounter
S24.2XXA	Injury of nerve root of thoracic spine, initial encounter	S44.8X2A	Injury of other nerves at shoulder and upper arm level, left arm, initial encounter
S24.2XXA	Injury of nerve root of thoracic spine, initial encounter	S44.8X2A	Injury of other nerves at shoulder and upper arm level, left arm, initial encounter
S24.2XXA	Injury of nerve root of thoracic spine, initial encounter	S44.8X1A	Injury of other nerves at shoulder and upper arm level, right arm, initial encounter
S94.8X2A	Injury of other nerves at ankle and foot level, left leg, initial encounter	S44.8X1A	Injury of other nerves at shoulder and upper arm level, right arm, initial encounter
S94.8X2A	Injury of other nerves at ankle and foot level, left leg, initial encounter	S44.8X9A	Injury of other nerves at shoulder and upper arm level, unspecified arm, initial encounter
S94.8X1A	Injury of other nerves at ankle and foot level, right leg, initial encounter	S44.8X9A	Injury of other nerves at shoulder and upper arm level, unspecified arm, initial encounter
S94.8X1A	Injury of other nerves at ankle and foot level, right leg, initial encounter	S64.8X2A	Injury of other nerves at wrist and hand level of left arm, initial encounter
S94.8X9A	Injury of other nerves at ankle and foot level, unspecified leg, initial encounter	S64.8X2A	Injury of other nerves at wrist and hand level of left arm, initial encounter
S94.8X9A	Injury of other nerves at ankle and foot level, unspecified leg, initial encounter	S64.8X1A	Injury of other nerves at wrist and hand level of right arm, initial encounter
S74.8X2A	Injury of other nerves at hip and thigh level, left leg, initial encounter	S64.8X1A	Injury of other nerves at wrist and hand level of right arm, initial encounter
S74.8X2A	Injury of other nerves at hip and thigh level, left leg, initial encounter	S64.8X9A	Injury of other nerves at wrist and hand level of unspecified arm, initial encounter
S74.8X1A	Injury of other nerves at hip and thigh level, right leg, initial encounter	S64.8X9A	Injury of other nerves at wrist and hand level of unspecified arm, initial encounter
S74.8X1A	Injury of other nerves at hip and thigh level, right leg, initial encounter	S84.12XA	Injury of peroneal nerve at lower leg level, left leg, initial encounter
S74.8X9A	Injury of other nerves at hip and thigh level, unspecified leg, initial encounter	S84.11XA	Injury of peroneal nerve at lower leg level, right leg, initial encounter
S74.8X9A	Injury of other nerves at hip and thigh level, unspecified leg, initial encounter	S84.10XA	Injury of peroneal nerve at lower leg level, unspecified leg, initial encounter



- S54.22XA Injury of radial nerve at forearm level, left arm, initial encounter
- S54.21XA Injury of radial nerve at forearm level, right arm, initial encounter
- S54.20XA Injury of radial nerve at forearm level, unspecified arm, initial encounter
- S44.22XA Injury of radial nerve at upper arm level, left arm, initial encounter
- S44.21XA Injury of radial nerve at upper arm level, right arm, initial encounter
- S44.20XA Injury of radial nerve at upper arm level, unspecified arm, initial encounter
- S64.22XA Injury of radial nerve at wrist and hand level of left arm, initial encounter
- S64.21XA Injury of radial nerve at wrist and hand level of right arm, initial encounter
- S64.20XA Injury of radial nerve at wrist and hand level of unspecified arm, initial encounter
- S74.02XA Injury of sciatic nerve at hip and thigh level, left leg, initial encounter
- S74.01XA Injury of sciatic nerve at hip and thigh level, right leg, initial encounter
- S74.00XA Injury of sciatic nerve at hip and thigh level, unspecified leg, initial encounter
- S84.02XA Injury of tibial nerve at lower leg level, left leg, initial encounter
- S84.01XA Injury of tibial nerve at lower leg level, right leg, initial encounter
- S84.00XA Injury of tibial nerve at lower leg level, unspecified leg, initial encounter
- S54.02XA Injury of ulnar nerve at forearm level, left arm, initial encounter
- S54.01XA Injury of ulnar nerve at forearm level, right arm, initial encounter
- S54.00XA Injury of ulnar nerve at forearm level, unspecified arm, initial encounter
- S44.02XA Injury of ulnar nerve at upper arm level, left arm, initial encounter
- S44.01XA Injury of ulnar nerve at upper arm level, right arm, initial encounter
- S44.00XA Injury of ulnar nerve at upper arm level, unspecified arm, initial encounter

- S64.02XA Injury of ulnar nerve at wrist and hand level of left arm, initial encounter
- S64.01XA Injury of ulnar nerve at wrist and hand level of right arm, initial encounter
- S64.00XA Injury of ulnar nerve at wrist and hand level of unspecified arm, initial encounter
- S04.9XXS Injury of unspecified cranail nerve, sequela
- S04.9XXA Injury of unspecified cranial nerve, initial encounter
- S04.9XXD Injury of unspecified cranial nerve, subsequent encounter
- S94.92XA Injury of unspecified nerve at ankle and foot level, left leg, initial encounter
- S94.91XA Injury of unspecified nerve at ankle and foot level, right leg, initial encounter
- S94.90XA Injury of unspecified nerve at ankle and foot level, unspecified leg, initial encounter
- S54.92XA Injury of unspecified nerve at forearm level, left arm, initial encounter
- S54.91XA Injury of unspecified nerve at forearm level, right arm, initial encounter
- S54.90XA Injury of unspecified nerve at forearm level, unspecified arm, initial encounter
- S74.92XA Injury of unspecified nerve at hip and thigh level, left leg, initial encounter
- S74.91XA Injury of unspecified nerve at hip and thigh level, right leg, initial encounter
- S74.90XA Injury of unspecified nerve at hip and thigh level, unspecified leg, initial encounter
- S84.92XA Injury of unspecified nerve at lower leg level, left leg, initial encounter
- S84.91XA Injury of unspecified nerve at lower leg level, right leg, initial encounter
- S84.90XA Injury of unspecified nerve at lower leg level, unspecified leg, initial encounter
- S44.92XA Injury of unspecified nerve at shoulder and upper arm level, left arm, initial encounter
- S44.91XA Injury of unspecified nerve at shoulder and upper arm level, right arm, initial encounter
- S44.90XA Injury of unspecified nerve at shoulder and upper arm level, unspecified arm, initial encounter



S64.92XA	Injury of unspecified nerve at wrist and hand level of left arm, initial encounter	M41.114	Juvenile idiopathic scoliosis, thoracic region	
	S64 01VA	,	M41.115	Juvenile idiopathic scoliosis, thoracolumbar region
	304.91AA	Injury of unspecified nerve at wrist and hand level of right arm, initial encounter	P14.1	Klumpke's paralysis due to birth injury
	S64.90XA	Injury of unspecified nerve at wrist and hand level	H83.1	Labyrinthine fistula
		of unspecified arm, initial encounter	G40.001	Localization-related (focal) (partial) sympotomatic
	S14.9XXA	Injury of unspecified nerves of neck, initial encounter		epilepsy and epileptic syndromes with seizures of localized onset, not intractable, with status epilepticus
	M51.06	Intervertebral disc disorders with myelopathy, lumbar region	G40.009	Localization-related (focal) (partial) symptomatic epilespy and epileptic syndromes with seizures
	M51.04	Intervertebral disc disorders with myelopathy, thoracic region		of localized onset, not intractable, without status epilepticus
	M51.05	Intervertebral disc disorders with myelopathy,	M40.56	Lordosis, unspecified, lumbar region
		thoracolumbar region	M40.57	Lordosis, unspecified, lumbosacral region
	M99.59	Intervertebral disc stenosis of neural canal of abdomen and other regions	M40.50	Lordosis, unspecified, site unspecified
	M99.56	Intervertebral disc stenosis of neural canal of	M40.55	Lordosis, unspecified, thoracolumbar region
	11100.00	lower extremity	Q05.2	Lumbar spina bifida with hydrocephalus
	M99.53	Intervertebral disc stenosis of neural canal of	Q05.7	Lumbar spina bifida without hydrocephalus
		lumbar region	G54.1	Lumbosacral plexus disorders
	M99.55	Intervertebral disc stenosis of neural canal of pelvic region	G54.4	Lumbosacral root disorders, not elsewhere classified
	M99.58	Intervertebral disc stenosis of neural canal of rib	C41.0	Malignant neoplasm of bones of skull and face
	M00 F4	cage	C71.9	Malignant neoplasm of brain, unspecified
	M99.54	Intervertebral disc stenosis of neural canal of sacral region	C72.1	Malignant neoplasm of cauda equina
	M99.52	Intervertebral disc stenosis of neural canal of thoracic region	C72.9	Malignant neoplasm of central nervous system, unspecified
	M99.57	Intervertebral disc stenosis of neural canal of upper extremity	C72.9	Malignant neoplasm of central nervous system, unspecified
	G06.0	Intracranial abscess and granuloma	C70.0	Malignant neoplasm of cerebral meninges
	G07	Intracranial and intraspinal abscess and granuloma	C72.42	Malignant neoplasm of left acoustic nerve
		in diseases classified elsewhere	C72.22	Malignant neoplasm of left olfactory nerve
	G06.1	Intraspinal abscess and granuloma	C72.32	Malignant neoplasm of left optic nerve
	M41.112	Juvenile idiopathic scoliosis, cervical region	C70.9	Malignant neoplasm of meninges, unspecified
	M41.113	Juvenile idiopathic scoliosis, cervicothoracic	C72.59	Malignant neoplasm of other cranial nerves
		region	C72.41	Malignant neoplasm of right acoustic nerve
	M41.116	Juvenile idiopathic scoliosis, lumbar region	C72.21	Malignant neoplasm of right olfactory nerve
	M41.117	Juvenile idiopathic scoliosis, lumbosacral region	C72.31	Malignant neoplasm of right optic nerve
	M41.119	Juvenile idiopathic scoliosis, site unspecified	C72.0	Malignant neoplasm of spinal cord



C70.1	Malignant neoplasm of spinal meninges	D42.0	Neoplasm of uncertain behavior of cerebral meninges
C72.40	Malignant neoplasm of unspecified acoustic nerve	D40.0	
C72.50	Malignant neoplasm of unspecified cranial nerve	D43.3	Neoplasm of uncertain behavior of cranial nerves
C72.20	Malignant neoplasm of unspecified olfactory nerve	D44.4	Neoplasm of uncertain behavior of craniopharyngeal duct
C72.30	Malignant neoplasm of unspecified optic nerve	D42.9	Neoplasm of uncertain behavior of meninges, unspecified
C41.2	Malignant neoplasm of vertebral column	D43.8	Neoplasm of uncertain behavior of other specified
G51.2	Melkersson's syndrome		parts of central nervous system
H81.03	Meniere's disease, bilateral	D44.5	Neoplasm of uncertain behavior of pineal gland
H81.03	Meniere's disease, bilateral	D44.3	Neoplasm of uncertain behavior of pituitary gland
H81.03	Meniere's disease, bilateral	D43.4	Neoplasm of uncertain behavior of spinal cord
H81.02	Meniere's disease, left ear	D42.1	Neoplasm of uncertain behavior of spinal
H81.02	Meniere's disease, left ear		meninges
H81.02	Meniere's disease, left ear	D49.6	Neoplasm of unspecified behavior of brain
H81.01	Meniere's disease, right ear	Q85.01	Neurofibromatosis, type 1
H81.01	Meniere's disease, right ear	Q85.02	Neurofibromatosis, type 2
H81.01	Meniere's disease, right ear	Q85.00	Neurofibromatosis, unspecified
H81.09	Meniere's disease, unspecified ear	M41.42	Neuromuscular scoliosis, cervical region
H81.09	Meniere's disease, unspecified ear	M41.43	Neuromuscular scoliosis, cervicothoracic region
H81.09	Meniere's disease, unspecified ear	M41.46	Neuromuscular scoliosis, lumbar region
G46.0	Middle cerebral artery syndrome	M41.47	Neuromuscular scoliosis, lumbosacral region
167.5	Moyamoya disease	M41.41	Neuromuscular scoliosis, occipito-atlanto-axial region
G45.2	Multiple and bilateral precerebral artery syndromes	M41.40	Neuromuscular scoliosis, site unspecified
G99.2	Myelopathy in diseases classified elsewhere	M41.44	Neuromuscular scoliosis, thoracic region
Q01.1	Nasofrontal encephalocele	M41.45	Neuromuscular scoliosis, thoracolumbar region
D44.7	Neoplasm of uncertain behavior of aortic body	162.01	Nontraumatic acute subdural hemorrhage
511.7	and other paraganglia	162.03	Nontraumatic chronic subdural hemorrhage
D43.1	Neoplasm of uncertain behavior of brain,	162.1	Nontraumatic extradural hemorrhage
	infratentorial	161.3	Nontraumatic intracerebral hemorrhage in brain
D43.0	Neoplasm of uncertain behavior of brain, supratentorial		stem
D43.2	Neoplasm of uncertain behavior of brain,	I61.4	Nontraumatic intracerebral hemorrhage in cerebellum
	unspecified	161.1	
D44.6	Neoplasm of uncertain behavior of carotid body	101.1	Nontraumatic intracerebral hemorrhage in hemisphere, cortical
D43.9	Neoplasm of uncertain behavior of central nervous system, unspecified	I61.0	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical



l61.2	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified	160.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery
l61.5	Nontraumatic intracerebral hemorrhage, intraventricular	160.30	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery
I61.6	Nontraumatic intracerebral hemorrhage, multiple localized	160.50	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery
I61.9	Nontraumatic intracerebral hemorrhage, unspecified	160.9	Nontraumatic subarachnoid hemorrhage, unspecified
162.9	Nontraumatic intracranial hemorrhage,	162.00	Nontraumatic subdural hemorrhage, unspecified
	unspecified	Q01.2	Occipital encephalocele
162.02	Nontraumatic subacute subdural hemorrhage	165.1	Occlusion and stenosis of basilar artery
160.4	Nontraumatic subarachnoid hemorrhage from basilar artery	166.13	Occlusion and stenosis of bilateral anterior cerebral arteries
160.22	Nontraumatic subarachnoid hemorrhage from left	165.23	Occlusion and stenosis of bilateral carotid arteries
160.02	Anterior communicating artery Nontraumatic subarachnoid hemorrhage from left	166.03	Occlusion and stenosis of bilateral middle cerebral arteries
160.12	carotid siphon and bifurcation Nontraumatic subarachnoid hemorrhage from left middle cerebral artery	166.23	Occlusion and stenosis of bilateral posterior cerebral arteries
160.32	Nontraumatic subarachnoid hemorrhage from left	165.03	Occlusion and stenosis of bilateral vertebral arteries
100.52	posterior communicating artery	166.3	Occlusion and stenosis of cerebellar arteries
160.52	Nontraumatic subarachnoid hemorrhage from left vertebral artery	166.12	Occlusion and stenosis of left anterior cerebral artery
160.6	Nontraumatic subarachnoid hemorrhage from	165.22	Occlusion and stenosis of left carotid artery
	other intracranial arteries	166.02	Occlusion and stenosis of left middle cerebral
160.21	Nontraumatic subarachnoid hemorrhage from		artery
160.01	right anterior communicating artery Nontraumatic subarachnoid hemorrhage from	166.22	Occlusion and stenosis of left posterior cerebral artery
	right carotid siphon and bifurcation	165.02	Occlusion and stenosis of left vertebral artery
160.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery	166.8	Occlusion and stenosis of other cerebral arteries
160.31	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery	165.8	Occlusion and stenosis of other precerebral arteries
160.51	Nontraumatic subarachnoid hemorrhage from right vertebral artery	165.8	Occlusion and stenosis of other precerebral arteries
160.20	Nontraumatic subarachnoid hemorrhage from	166.11	Occlusion and stenosis of right anterior cerebral artery
160.00	unspecified anterior communicating artery	165.21	Occlusion and stenosis of right carotid artery
160.00	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation	166.01	Occlusion and stenosis of right middle cerebral
160.7	Nontraumatic subarachnoid hemorrhage from		artery
	unspecified intracranial artery	166.21	Occlusion and stenosis of right posterior cerebral artery



165.01	Occlusion and stenosis of right vertebral artery	M99.34	Osseous stenosis of neural canal of sacral region
I66.19	Occlusion and stenosis of unspecified anterior cerebral artery	M99.32	Osseous stenosis of neural canal of thoracic region
165.29	Occlusion and stenosis of unspecified carotid artery	M99.37	Osseous stenosis of neural canal of upper extremity
166.9	Occlusion and stenosis of unspecified cerebral	M86.8X9	Other osteomyelitis, unspecified sites
	artery	177.7	Other arterial dissection
166.9	Occlusion and stenosis of unspecified cerebral artery	P14.3	Other brachial plexus birth injuries
166.09	Occlusion and stenosis of unspecified middle	163.8	Other cerebral infarction
	cerebral artery	G80.8	Other cerebral palsy
166.29	Occlusion and stenosis of unspecified posterior cerebral artery	167.848	Other cerebrovascular vasospasm and vasoconstriction
165.9	Occlusion and stenosis of unspecified precerebral artery	M50.83	Other cervical disc disorders, cervicothoracic region
165.09	Occlusion and stenosis of unspecified vertebral	M50.81	Other cervical disc disorders, high cervical region
	artery	M50.82	Other cervical disc disorders, mid-cervical region
M99.69	Osseous and subluxation stenosis of intervertebral foramina of abdomen and other regions	M50.80	Other cervical disc disorders, unspecified cervical region
M99.66	Osseous and subluxation stenosis of intervertebral foramina of lower extremity	M50.20	Other cervical disc displacement, unspecified cervical region
M99.63	Osseous and subluxation stenosis of	G95.29	Other cord compression
10199.03	intervertebral foramina of lumbar region	G51.8	Other disorders of facial nerve
M99.65	Osseous and subluxation stenosis of intervertebral foramina of pelvic region	M41.82	Other forms of scoliosis, cervical region
		M41.83	Other forms of scoliosis, cervicothoracic region
M99.68	Osseous and subluxation stenosis of	M41.86	Other forms of scoliosis, lumbar region
1400.04	intervertebral foramina of rib cage	M41.87	Other forms of scoliosis, lumbosacral region
M99.64	Osseous and subluxation stenosis of intervertebral foramina of sacral region	M41.80	Other forms of scoliosis, site unspecified
M99.62	Osseous and subluxation stenosis of	M41.84	Other forms of scoliosis, thoracic region
	intervertebral foramina of thoracic region	M41.85	Other forms of scoliosis, thoracolumbar region
M99.67	Osseous and subluxation stenosis of intervertebral foramina of upper extremity	S22.018A	Other fracture of first thoracic vertebra, initial encounter for closed fracture
M99.39	Osseous stenosis of neural canal of abdomen and other regions	S22.048A	Other fracture of fourth thoracic vertebra, initial encounter for closed fracture
M99.36	Osseous stenosis of neural canal of lower extremity	S22.028A	Other fracture of second thoracic vertebra, initial encounter for closed fracture
M99.33	Osseous stenosis of neural canal of lumbar region	S22.088A	Other fracture of T11-T12 vertebra, initial
M99.35	Osseous stenosis of neural canal of pelvic region		encounter for closed fracture
M99.38	Osseous stenosis of neural canal of rib cage	S22.058A	Other fracture of T5-T6 vertebra, initial encounter for closed fracture



522 068 A	Other fracture of T7-T8 thoracic vertebra, initial	Q2/ 151 A	Other incomplete legion at T1 level of theracin
522.068A	encounter for closed fracture	524.151A	Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter
S22.078A	Other fracture of T9-T10 vertebra, initial encounter for closed fracture	S24.151A	Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter
S22.038A	Other fracture of third thoracic vertebra, initial encounter for closed fracture	S24.154A	Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter
S22.008A	Other fracture of unspecified thoracic vertebra, initial encounter for closed fracture	S24.154A	Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter
S02.19	Other fractures of base of skull	S24.154A	Other incomplete lesion at T11-T12 level of
M41.22	Other idiopathic scoliosis, cervical region		thoracic spinal cord, initial encounter
M41.23	Other idiopathic scoliosis, cervicothoracic region	S24.154A	Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter
M41.26	Other idiopathic scoliosis, lumbar region	S24 152 A	Other incomplete lesion at T2-T6 level of thoracic
M41.27	Other idiopathic scoliosis, lumbosacral region	324.13ZA	spinal cord, initial encounter
M41.20	Other idiopathic scoliosis, site unspecified	S24.152A	Other incomplete lesion at T2-T6 level of thoracic
M41.24	Other idiopathic scoliosis, thoracic region		spinal cord, initial encounter
M41.25	Other idiopathic scoliosis, thoracolumbar region	S24.152A	Other incomplete lesion at T2-T6 level of thoracic
S14.151A	Other incomplete lesion at C1 level of cervical	004.4504	spinal cord, initial encounter
	spinal cord, initial encounter	S24.152A	Other incomplete lesion at T2-T6 level of thoracic spinal cord, initial encounter
S14.152A	Other incomplete lesion at C2 level of cervical spinal cord, initial encounter	S24.153A	Other incomplete lesion at T7-T10 level of thoracic
S14.153A	Other incomplete lesion at C3 level of cervical		spinal cord, initial encounter
	spinal cord, initial encounter	S24.153A	Other incomplete lesion at T7-T10 level of thoracic
S14.154A	Other incomplete lesion at C4 level of cervical	S24 152A	spinal cord, initial encounter Other incomplete lesion at T7-T10 level of thoracic
	spinal cord, initial encounter	324.133A	spinal cord, initial encounter
S14.155A	Other incomplete lesion at C5 level of cervical spinal cord, initial encounter	S24.153A	Other incomplete lesion at T7-T10 level of thoracic spinal cord, initial encounter
S14.155A	Other incomplete lesion at C5 level of cervical	M51.36	Other intervertebral disc degeneration, lumbar
0444504	spinal cord, initial encounter	101.00	region
S14.156A	Other incomplete lesion at C6 level of cervical spinal cord, initial encounter	M51.37	Other intervertebral disc degeneration, lumbosacral region
S14.156A	Other incomplete lesion at C6 level of cervical spinal cord, initial encounter	M51.34	Other intervertebral disc degeneration, thoracic
S14.157A	Other incomplete lesion at C7 level of cervical	N454 04	region
	spinal cord, initial encounter	M51.34	Other intervertebral disc degeneration, thoracic region
S14.157A	Other incomplete lesion at C7 level of cervical spinal cord, initial encounter	M51.35	Other intervertebral disc degeneration,
924 151 Δ	Other incomplete lesion at T1 level of thoracic		thoracolumbar region
024.IJIA	spinal cord, initial encounter	M51.35	Other intervertebral disc degeneration,
S24.151A	Other incomplete lesion at T1 level of thoracic		thoracolumbar region
	spinal cord, initial encounter	M51.86	Other intervertebral disc disorders, lumbar region



M51.87	Other intervertebral disc disorders, lumbosacral region	M43.8X8	Other specified deforming dorsopathies, sacral and sacrococcygeal region
M51.84	Other intervertebral disc disorders, thoracic region	M43.8X9	
M51.85	Other intervertebral disc disorders, thoracolumbar region	WI+3.07.3	unspecified
M40.292	Other kyphosis, cervical region	M43.8X9	Other specified deforming dorsopathies, site unspecified
M40.293	Other kyphosis, cervicothoracic region	M43.8X4	Other specified deforming dorsopathies, thoracic
M40.299	Other kyphosis, site unspecified		region
M40.294	Other kyphosis, thoracic region	M43.8X5	3 ,
M40.295	Other kyphosis, thoracolumbar region		thoracolumbar region
Q28.3	Other malformations of cerebral vessels	G95.89	Other specified diseases of spinal cord
161.8	Other nontraumatic intracerebral hemorrhage	M47.12	Other spondylosis with myelopathy, cervical region
160.8	Other nontraumatic subarachnoid hemorrhage	M47.13	Other spondylosis with myelopathy,
M80.88XA	Other osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture		cervicothoracic region
M40.12	Other secondary kyphosis, cervical region	M47.16	Other spondylosis with myelopathy, lumbar region
M40.13	Other secondary kyphosis, cervicothoracic region	M47.11	Other spondylosis with myelopathy, occipito- atlanto-axial region
M40.10	Other secondary kyphosis, site unspecified	M47.10	Other spondylosis with myelopathy, site unspecified
M40.14	Other secondary kyphosis, thoracic region	M47.14	Other spondylosis with myelopathy, thoracic
M40.15	Other secondary kyphosis, thoracolumbar region		region
M41.52	Other secondary scoliosis, cervical region	M47.15	Other spondylosis with myelopathy,
M41.53	Other secondary scoliosis, cervicothoracic region		thoracolumbar region
M41.56	Other secondary scoliosis, lumbar region	M47.22	Other spondylosis with radiculopathy, cervical region
M41.57	Other secondary scoliosis, lumbosacral region	M47.23	Other spondylosis with radiculopathy,
M41.50	Other secondary scoliosis, site unspecified		cervicothoracic region
M41.54	Other secondary scoliosis, thoracic region	M47.21	Other spondylosis with radiculopathy, occipito-
M41.55	Other secondary scoliosis, thoracolumbar region		atlanto-axial region
Q06.8	Other specified congenital malformations of spinal cord	M47.24	Other spondylosis with radiculopathy, thoracic region
M43.8X2	Other specified deforming dorsopathies, cervical region	M47.25	Other spondylosis with radiculopathy, thoracolumbar region
M43.8X3		M47.892	Other spondylosis, cervical region M47.893
10143.073	cervicothoracic region	Other spo	ndylosis, cervicothoracic region M47.891
M43.8X6	Other specified deforming dorsopathies, lumbar	Other spo	ndylosis, occipito-atlanto-axial region M47.894
	region	Other spo	ndylosis, thoracic region
M43.8X7	Other specified deforming dorsopathies, lumbosacral region	M47.895	Other spondylosis, thoracolumbar region
M43.8X1	Other specified deforming dorsopathies, occipito- atlanto-axial region	G45.8	Other transient cerebral ischemic attacks and related syndromes



C4F 0	Other transient carebral inchancia attacks and	C79.51	Consider, malignant population of hono
G45.8	Other transient cerebral ischemic attacks and related syndromes		Secondary malignant neoplasm of bone
G45.8	Other transient cerebral ischemic attacks and	C79.52	Secondary malignant neoplasm of bone marrow
	related syndromes	C79.31	Secondary malignant neoplasm of brain
G95.19	Other vascular myelopathies	C79.32	Secondary malignant neoplasm of cerebral meninges
M84.58X	A Pathological fracture in neoplastic disease, other specified site, initial encounter for fracture	C79.49	Secondary malignant neoplasm of other parts of nervous system
M84.68X	APathological fracture in other disease, other site, initial encounter for fracture	C79.40	Secondary malignant neoplasm of unspecified part of nervous system
M84.48X	A Pathological fracture, other site, initial encounter for fracture	Q05.9	Spina bifida, unspecified
P14.2	Phrenic nerve paralysis due to birth injury	Q05.9	Spina bifida, unspecified
G46.2	Posterior cerebral artery syndrome	M48.02	Spinal stenosis, cervical region
M96.3	Postlaminectomy kyphosis	M48.06	Spinal stenosis, lumbar region
M96.2	Postradiation kyphosis	M48.07	Spinal stenosis, lumbosacral region
M96.5	Postradiation scoliosis	M48.08	Spinal stenosis, sacral and sacrococcygeal region
M96.4	Postsurgical lordosis	M48.00	Spinal stenosis, site unspecified
M40.03	Postural kyphosis, cervicothoracic region	M48.00	Spinal stenosis, site unspecified
M40.00	Postural kyphosis, site unspecified	M48.04	Spinal stenosis, thoracic region
M40.04	Postural kyphosis, thoracic region	M48.05	Spinal stenosis, thoracolumbar region
M40.05	Postural kyphosis, thoracolumbar region	M43.12	Spondylolisthesis, cervical region
M40.46	Postural lordosis, lumbar region	M43.13	Spondylolisthesis, cervicothoracic region
M40.47	Postural lordosis, lumbosacral region	M43.16	Spondylolisthesis, lumbar region
M40.40	Postural lordosis, site unspecified	M43.17	Spondylolisthesis, lumbosacral region
M40.45	Postural lordosis, thoracolumbar region	M43.19	Spondylolisthesis, multiple sites in spine
H95.03	Recurrent cholesteatoma of postmastoidectomy	M43.11	Spondylolisthesis, occipito-atlanto-axial region
1195.05	cavity, bilateral ears	M43.18	Spondylolisthesis, sacral and sacrococcygeal
H95.02	Recurrent cholesteatoma of postmastoidectomy		region
	cavity, left ear	M43.10	Spondylolisthesis, site unspecified
H95.01	Recurrent cholesteatoma of postmastoidectomy cavity, right ear	M43.14	Spondylolisthesis, thoracic region
H95.00	Recurrent cholesteatoma of postmastoidectomy	M43.15	Spondylolisthesis, thoracolumbar region
1133.00	cavity, unspecified ear	M43.02	Spondylolysis, cervical region
167.841	Reversible cerebrovascular vasoconstriction	M43.03	Spondylolysis, cervicothoracic region
	syndrome	M43.06	Spondylolysis, lumbar region
Q05.3	Sacral spina bifida with hydrocephalus	M43.07	Spondylolysis, lumbosacral region
Q05.8	Sacral spina bifida without hydrocephalus	M43.09	Spondylolysis, multiple sites in spine
M41.9	Scoliosis, unspecified	M43.01	Spondylolysis, occipito-atlanto-axial region



M42.00	Chandylah rain pagral and appropriation	M00 00	Cublingation atomosis of neural annul of abdaman
M43.08	Spondylolysis, sacral and sacrococcygeal region	M99.29	Subluxation stenosis of neural canal of abdomen and other regions
M43.00	Spondylolysis, site unspecified	M99.26	Subluxation stenosis of neural canal of lower
M43.04	Spondylolysis, thoracic region		extremity
M43.05	Spondylolysis, thoracolumbar region	M99.23	Subluxation stenosis of neural canal of lumbar
M47.812	Spondylosis without myelopathy or radiculopathy, cervical region		region
M47.813	Spondylosis without myelopathy or radiculopathy,	M99.25	Subluxation stenosis of neural canal of pelvic region
	cervicothoracic region	M99.28	Subluxation stenosis of neural canal of rib cage
M47.811	Spondylosis without myelopathy or radiculopathy, occipito-atlanto-axial region	M99.24	Subluxation stenosis of neural canal of sacral region
M47.814	Spondylosis without myelopathy or radiculopathy, thoracic region	M99.22	Subluxation stenosis of neural canal of thoracic region
M47.815	Spondylosis without myelopathy or radiculopathy, thoracolumbar region	M99.27	Subluxation stenosis of neural canal of upper extremity
S22.011A	Stable burst fracture of first thoracic vertebra,	H70.013	Subperiosteal abscess of mastoid, bilateral
	initial encounter for closed fracture	H70.012	Subperiosteal abscess of mastoid, left ear
S22.041A	Stable burst fracture of fourth thoracic vertebra, initial encounter for closed fracture	H70.011	Subperiosteal abscess of mastoid, right ear
S22.021A	Stable burst fracture of second thoracic vertebra,	H70.019	Subperiosteal abscess of mastoid, unspecified ear
	initial encounter for closed fracture	G95.0	Syringomyelia and syringobulbia
S22.081A	Stable burst fracture of T11-T12 vertebra, initial encounter for closed fracture	G93.81	Temporal sclerosis
S22 051A	Stable burst fracture of T5-T6 vertebra, initial	171.1	Thoracic aortic aneurysm, ruptured
322.031A	encounter for closed fracture	l71.2	Thoracic aortic aneurysm, without rupture
S22.061A	Stable burst fracture of T7-T8 vertebra, initial	G54.3	Thoracic root disorders, not elsewhere classified
	encounter for closed fracture	Q05.1	Thoracic spina bifida with hydrocephalus
S22.071A	Stable burst fracture of T9-T10 vertebra, initial encounter for closed fracture	Q05.6	Thoracic spina bifida without hydrocephalus
S22 021A	Stable burst fracture of third thoracic vertebra,	171.5	Thoracoabdominal aortic aneurysm, ruptured
322.031A	initial encounter for closed fracture	I71.6	Thoracoabdominal aortic aneurysm, without rupture
S22.001A	Stable burst fracture of unspecified thoracic	M41.30	Thoracogenic scoliosis, site unspecified
	vertebra, initial encounter for closed fracture	M41.34	Thoracogenic scoliosis, thoracic region
G32.0	Subacute combined degeneration of spinal cord in diseases classified elsewhere	M41.35	Thoracogenic scoliosis, thoracolumbar region
S23.1	Subluxation and dislocation of thoracic vertebra	G45.9	Transient cerebral ischemic attack, unspecified
	Subluxation and dislocation of thoracic vertebra,	M48.32	Traumatic spondylopathy, cervical region
323.100A	initial encounter	M48.33	Traumatic spondylopathy, cervicothoracic region
S23.100S	Subluxation and dislocation of thoracic vertebra,	M48.36	Traumatic spondylopathy, lumbar region
	sequela	M48.37	Traumatic spondylopathy, lumbosacral region
S23110D	Subluxation and dislocation of thoracic vertebra, subsequent encounter	M48.31	Traumatic spondylopathy, occipito-atlanto-axial region



M48.38	Traumatic spondylopathy, sacral and sacrococcygeal region	S12.300B	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture
M48.30	Traumatic spondylopathy, site unspecified	S12.300B	Unspecified displaced fracture of fourth cervical
M48.34	Traumatic spondylopathy, thoracic region		vertebra, initial encounter for open fracture
M48.35	Traumatic spondylopathy, thoracolumbar region	S12.300B	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture
G50.0	Trigeminal neuralgia	S12 300B	Unspecified displaced fracture of fourth cervical
A18.01	Tuberculosis of spine	012.000	vertebra, initial encounter for open fracture
H71.93	Unspecified cholesteatoma, bilateral	S12.300B	Unspecified displaced fracture of fourth cervical
H71.92	Unspecified cholesteatoma, left ear		vertebra, initial encounter for open fracture
H71.91	Unspecified cholesteatoma, right ear	S12.100A	Unspecified displaced fracture of second cervical vertebra, initial encounter for closed fracture
H71.90	Unspecified cholesteatoma, unspecified ear	S12 100B	Unspecified displaced fracture of second cervical
G95.20	Unspecified cord compression	012.100B	vertebra, initial encounter for open fracture
S12.400A	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for closed fracture	S12.100B	Unspecified displaced fracture of second cervical vertebra, initial encounter for <i>open fracture</i>
S12.400A	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for closed fracture	S12.100B	Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture
S12.400B	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for open fracture	S12.100B	Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture
S12.400B	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for open fracture	S12.100B	Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture
S12.400B	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for open fracture	S12.600A	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for closed fracture
S12.400B	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for open fracture	S12.600A	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for closed fracture
S12.400B	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for open fracture	S12.600B	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for open fracture
S12.000A	Unspecified displaced fracture of first cervical vertebra, initial encounter for closed fracture	S12.600B	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for open fracture
S12.000B	Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture	S12.600B	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for open fracture
S12.000B	Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture	S12.600B	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for open fracture
S12.000B	Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture	S12.600B	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for open fracture
S12.000B	Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture	S12.500A	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for closed fracture
S12.000B	Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture	S12.500A	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for closed fracture
S12.300A	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for closed fracture	S12.500B	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for open fracture



S12.500B	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for open fracture	S22.019B	Unspecified fracture of first thoracic vertebra, initial encounter for open fracture
	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for open fracture	S22.019B	Unspecified fracture of first thoracic vertebra, initial encounter for open fracture
	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for open fracture	S22.019B	Unspecified fracture of first thoracic vertebra, initial encounter for open fracture
S12.500B	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for open fracture	S22.019B	Unspecified fracture of first thoracic vertebra, initial encounter for open fracture
	Unspecified displaced fracture of third cervical vertebra, initial encounter for closed fracture	S32.049A	Unspecified fracture of fourth lumbar vertebra, initial encounter for closed fracture
	Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture	S32.049B	Unspecified fracture of fourth lumbar vertebra, initial encounter for open fracture
S12.200B	Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture	S22.049A	Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture
	Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture	S22.049A	Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture
	Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture	S22.049A	Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture
S12.200B	Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture	S22.049A	Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture
S32.059A	Unspecified fracture of fifth lumbar vertebra, initial encounter for closed fracture	S22.049A	Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture
S32.059B	Unspecified fracture of fifth lumbar vertebra, initial encounter for open fracture	S22.049A	Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture
S32.019A	Unspecified fracture of first lumbar vertebra, initial encounter for closed fracture	S22.049B	Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture
S32.019B	Unspecified fracture of first lumbar vertebra, initial encounter for open fracture	S22.049B	Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture
	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	S22.049B	Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture
S22.019A	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	S22.049B	Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture
S22.019A	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	S22.049B	Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture
	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	S32.10XA	Unspecified fracture of sacrum, initial encounter for closed fracture
S22.019A	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	S32.10XB	Unspecified fracture of sacrum, initial encounter for open fracture
S22.019A	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	S32.10XB	Unspecified fracture of sacrum, initial encounter for open fracture
S22.019B	Unspecified fracture of first thoracic vertebra, initial encounter for open fracture	S32.10XB	Unspecified fracture of sacrum, initial encounter for open fracture



S32.10XB	Unspecified fracture of sacrum, initial encounter for open fracture	S22.089B	Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture
S32.10XB	Unspecified fracture of sacrum, initial encounter for open fracture	S22.089B	Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture
S32.029A	Unspecified fracture of second lumbar vertebra, initial encounter for closed fracture	S22.089B	Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture
S32.029B	Unspecified fracture of second lumbar vertebra, initial encounter for open fracture	S22.089B	Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture
S22.029A	Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture	S22.089B	Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture
S22.029A	Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture	S22.059A	Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture
S22.029A	Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture	S22.059A	Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture
S22.029A	Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture	S22.059A	Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture
S22.029A	Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture	S22.059A	Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture
S22.029A	Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture	S22.059A	Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture
S22.029B	Unspecified fracture of second thoracic vertebra, initial encounter for open fracture	S22.059A	Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture
S22.029B	Unspecified fracture of second thoracic vertebra, initial encounter for open fracture	S22.059B	Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture
S22.029B	Unspecified fracture of second thoracic vertebra, initial encounter for open fracture	S22.059B	Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture
S22.029B	Unspecified fracture of second thoracic vertebra, initial encounter for open fracture	S22.059B	Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture
S22.029B	Unspecified fracture of second thoracic vertebra, initial encounter for open fracture	S22.059B	Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture
S22.089A	Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture	S22.059B	Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture
S22.089A	Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture	S22.069A	Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture
S22.089A	Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture	S22.069A	Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture
S22.089A	Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture	S22.069A	Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture
S22.089A	Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture	S22.069A	Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture
S22.089A	Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture	S22.069A	Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture



S22.069A	Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture	S22.039A	Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture
	Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture	S22.039A	Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture
S22.069B	Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture	S22.039A	Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture
S22.069B	Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture	S22.039A	Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture
S22.069B	Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture	S22.039B	Unspecified fracture of third thoracic vertebra, initial encounter for open fracture
	Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture	S22.039B	Unspecified fracture of third thoracic vertebra, initial encounter for open fracture
S22.079A	Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture	S22.039B	Unspecified fracture of third thoracic vertebra, initial encounter for open fracture
	Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture	S22.039B	Unspecified fracture of third thoracic vertebra, initial encounter for open fracture
S22.079A	Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture	S22.039B	Unspecified fracture of third thoracic vertebra, initial encounter for open fracture
S22.079A	Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture	S32.009A	Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed fracture
S22.079A	Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture	S32.009A	Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed fracture
	Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture	S32.009B	Unspecified fracture of unspecified lumbar vertebra, initial encounter for open fracture
S22.079B	Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture	S32.009B	Unspecified fracture of unspecified lumbar vertebra, initial encounter for open fracture
S22.079B	Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture	S22.009A	Unspecified fracture of unspecified thoracic vertebra, initial encounter for closed fracture
S22.079B	Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture	S22.009A	Unspecified fracture of unspecified thoracic vertebra, initial encounter for closed fracture
S22.079B	Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture	S22.009B	Unspecified fracture of unspecified thoracic vertebra, initial encounter for open fracture
S22.079B	Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture	S14.101A	Unspecified injury at C1 level of cervical spinal cord, initial encounter
	Unspecified fracture of third lumbar vertebra, initial encounter for closed fracture	S14.101A	Unspecified injury at C1 level of cervical spinal cord, initial encounter
	Unspecified fracture of third lumbar vertebra, initial encounter for open fracture	S14.101S	Unspecified injury at C1 level of cervical spinal cord, sequela
S22.039A	Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture	S14.101D	Unspecified injury at C1 level of cervical spinal cord, subsequent encounter
S22.039A	Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture	S14.102A	Unspecified injury at C2 level of cervical spinal cord, initial encounter



S14.102A	Unspecified injury at C2 level of cervical spinal cord, initial encounter	S14.107S	Unspecified injury at C7 level of cervical spinal cord, sequela
S14.102S	Unspecified injury at C2 level of cervical spinal cord, sequela	S14.107D	Unspecified injury at C7 level of cervical spinal cord, subsequent encounter
S14.102D	Unspecified injury at C2 level of cervical spinal cord, subsequent encounter	S14.108A	Unspecified injury at C8 level of cervical spinal cord, initial encounter
S14.103A	Unspecified injury at C3 level of cervical spinal cord, initial encounter	S14.108S	Unspecified injury at C8 level of cervical spinal cord, sequela
S14.103A	Unspecified injury at C3 level of cervical spinal cord, initial encounter	S14.108D	Unspecified injury at C8 level of cervical spinal cord, subsequent encounter
S14.103S	Unspecified injury at C3 level of cervical spinal cord, sequela	S24.101A	Unspecified injury at T1 level of thoracic spinal cord, initial encounter
S14.103D	Unspecified injury at C3 level of cervical spinal cord, subsequent encounter	S24.101A	Unspecified injury at T1 level of thoracic spinal cord, initial encounter
S14.104A	Unspecified injury at C4 level of cervical spinal cord, initial encounter	S24.104A	Unspecified injury at T11-T12 level of thoracic spinal cord, initial encounter
S14.104A	Unspecified injury at C4 level of cervical spinal cord, initial encounter	S24.104A	Unspecified injury at T11-T12 level of thoracic spinal cord, initial encounter
S14.104S	Unspecified injury at C4 level of cervical spinal cord, sequela	S24.102A	Unspecified injury at T2-T6 level of thoracic spinal cord, initial encounter
S14.104D	Unspecified injury at C4 level of cervical spinal cord, subsequent encounter	S24.102A	Unspecified injury at T2-T6 level of thoracic spinal cord, initial encounter
S14.105A	Unspecified injury at C5 level of cervical spinal cord, initial encounter	S24.103A	Unspecified injury at T7-T10 level of thoracic spinal cord, initial encounter
S14.105A	Unspecified injury at C5 level of cervical spinal cord, initial encounter	S24.103A	Unspecified injury at T7-T10 level of thoracic spinal cord, initial encounter
S14.105S	Unspecified injury at C5 level of cervical spinal cord, sequela	S14.109A	Unspecified injury at unspecified level of cervical spinal cord, initial encounter
S14.105D	Unspecified injury at C5 level of cervical spinal cord, subsequent encounter	S14.109A	Unspecified injury at unspecified level of cervical spinal cord, initial encounter
S14.106A	Unspecified injury at C6 level of cervical spinal cord, initial encounter	S14.109S	Unspecified injury at unspecified level of cervical spinal cord, sequela
S14.106A	Unspecified injury at C6 level of cervical spinal cord, initial encounter	S14.109D	Unspecified injury at unspecified level of cervical spinal cord, subsequent encounter
S14.106S	Unspecified injury at C6 level of cervical spinal cord, sequela	S24.109A	Unspecified injury at unspecified level of thoracic spinal cord, initial encounter
S14.106D	Unspecified injury at C6 level of cervical spinal cord, subsequent encounter	S24.109A	Unspecified injury at unspecified level of thoracic spinal cord, initial encounter
S14.107A	Unspecified injury at C7 level of cervical spinal cord, initial encounter	S14.109A	Unspecified injury at unspeficied level of cervical spinal cord, initial encounter
S14.107A	Unspecified injury at C7 level of cervical spinal cord, initial encounter	S54.8X2A	Unspecified injury of other nerves at forearm level, left arm, initial encounter



S54 8X2A	Unspecified injury of other nerves at forearm	S34 109A	Unspecified injury to unspecified level of lumbar
00 1.07(27	level, left arm, initial encounter	001.100/1	spinal cord, initial encounter
S54.8X1A	Unspecified injury of other nerves at forearm	M40.202	Unspecified kyphosis, cervical region
0540044	level, right arm, initial encounter	M40.203	Unspecified kyphosis, cervicothoracic region
554.8X1A	Unspecified injury of other nerves at forearm level, right arm, initial encounter	M40.209	Unspecified kyphosis, site unspecified
S54.8X9A	Unspecified injury of other nerves at forearm	M40.204	Unspecified kyphosis, thoracic region
	level, unspecified arm, initial encounter	M40.205	Unspecified kyphosis, thoracolumbar region
S54.8X9A	Unspecified injury of other nerves at forearm level, unspecified arm, initial encounter	S12.401A	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture
S34.101A	Unspecified injury to L1 level of lumbar spinal cord, initial encounter	S12.401A	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture
S34.101A	Unspecified injury to L1 level of lumbar spinal cord, initial encounter	S12.401B	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for open fracture
S34.102A	Unspecified injury to L2 level of lumbar spinal cord, initial encounter	S12.401B	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for open fracture
S34.102A	Unspecified injury to L2 level of lumbar spinal cord, initial encounter	S12.401B	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for open fracture
S34.103A	Unspecified injury to L3 level of lumbar spinal cord, initial encounter	S12.401B	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for open fracture
S34.103A	Unspecified injury to L3 level of lumbar spinal cord, initial encounter	S12.401B	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for open fracture
S34.104A	Unspecified injury to L4 level of lumbar spinal cord, initial encounter	S12.001A	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture
S34.104A	Unspecified injury to L4 level of lumbar spinal cord, initial encounter	S12.001B	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture
S34.105A	Unspecified injury to L5 level of lumbar spinal cord, initial encounter	S12.001B	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture
S34.105A	Unspecified injury to L5 level of lumbar spinal cord, initial encounter	S12.001B	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture
S34.139A	Unspecified injury to sacral spinal cord, initial encounter	S12.001B	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture
S34.139A	Unspecified injury to sacral spinal cord, initial encounter	S12.001B	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture
S34.139A	Unspecified injury to sacral spinal cord, initial encounter	S12.301A	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for closed
S34.109A	Unspecified injury to unspecified level of lumbar spinal cord, initial encounter	S12.301B	Unspecified nondisplaced fracture of fourth
S34.109A	Unspecified injury to unspecified level of lumbar spinal cord, initial encounter	S12.301B	Cervical vertebra, initial encounter for open fracture Unspecified nondisplaced fracture of fourth
S34.109A	Unspecified injury to unspecified level of lumbar spinal cord, initial encounter		cervical vertebra, initial encounter for open fracture



S12.301B	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture	S12.501B	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for open fracture
S12.301B	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture	S12.501B	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for open fracture
S12.301B	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture	S12.201A	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture
S12.101A	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture	S12.201B	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture
S12.101B	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	S12.201B	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture
S12.101B	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	S12.201B	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture
S12.101B	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	S12.201B	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture
S12.101B	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	S12.201B	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture
S12.101B	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	Q05.4	Unspecified spina bifida with hydrocephalus
S12.601A	Unspecified nondisplaced fracture of seventh	M51.9	Unspecified thoracic, thoracolumbar and lumbosacral intervertebral disc disorder
S12.601A	cervical vertebra, initial encounter for closed fracture Unspecified nondisplaced fracture of seventh	M51.9	Unspecified thoracic, thoracolumbar and lumbosacral intervertebral disc disorder
C40 C04D	cervical vertebra, initial encounter for closed fracture	S22.012A	Unstable burst fracture of first thoracic vertebra,
512.001B	Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for open fracture	S22.042A	initial encounter for closed fracture Unstable burst fracture of fourth thoracic vertebra,
S12.601B	Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for open fracture	S22 022 A	initial encounter for closed fracture
S12.601B	Unspecified nondisplaced fracture of seventh	322.022A	Unstable burst fracture of second thoracic vertebra, initial encounter for closed fracture
S12.601B	cervical vertebra, initial encounter for open fracture Unspecified nondisplaced fracture of seventh	S22.082A	Unstable burst fracture of T11-T12 vertebra, initial encounter for closed fracture
C10 601B	cervical vertebra, initial encounter for open fracture Unspecified nondisplaced fracture of seventh	S22.052A	Unstable burst fracture of T5-T6 vertebra, initial encounter for closed fracture
312.001B	cervical vertebra, initial encounter for open fracture	S22.062A	Unstable burst fracture of T7-T8 vertebra, initial
S12.501A	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture	S22 072 A	encounter for closed fracture Unstable burst fracture of T9-T10 vertebra, initial
S12.501A	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture	022.012A	encounter for closed fracture
S12.501B	Unspecified nondisplaced fracture of sixth cervical	S22.032A	Unstable burst fracture of third thoracic vertebra, initial encounter for closed fracture
S12 501B	vertebra, initial encounter for open fracture Unspecified nondisplaced fracture of sixth cervical	S22.002A	Unstable burst fracture of unspecified thoracic vertebra, initial encounter for closed fracture
	vertebra, initial encounter for open fracture	M47.022	Vertebral artery compression syndromes, cervical region
S12.501B	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for open fracture		



M47.021	Vertebral artery compression syndromes, occipito-atlanto-axial region	S22.080A	Wedge compression fracture of T11-T12 vertebra, initial encounter for closed fracture
M47.029	Vertebral artery compression syndromes, site unspecified	S22.050A	Wedge compression fracture of T5-T6 vertebra, initial encounter for closed fracture
G45.0	Vertebro-basilar artery syndrome	S22.060A	Wedge compression fracture of T7-T8 vertebra,
G45.0	Vertebro-basilar artery syndrome		initial encounter for closed fracture
G45.0	Vertebro-basilar artery syndrome	S22.070A	Wedge compression fracture of T9-T10 vertebra, initial encounter for closed fracture
S22.010A	Wedge compression fracture of first thoracic vertebra, initial encounter for closed fracture	S22.030A	Wedge compression fracture of third thoracic vertebra, initial encounter for closed fracture Wedge compression fracture of unspecified thoracic vertebra, initial encounter for closed fracture
S22.040A	Wedge compression fracture of fourth thoracic vertebra, initial encounter for closed fracture	S22.000A	
S22.020A	Wedge compression fracture of second thoracic vertebra, initial encounter for closed fracture		



The following overall criteria must be met: E01.0 lodine-deficiency related diffuse (endemic) goiter					
Diagnosis must at least reflect a reason		R22.0	Localized swelling, mass and lump, head		
	(or need) for surgery	R22.1	Localized swelling, mass and lump, neck		
Diagnosis should imply a monitorable structure is at risk		C08.9	Malignant neoplasm of major salivary gland,		
Current practice includes monitoring the at			unspecified		
risk structure		C07	Malignant neoplasm of parotid gland		
 There is peer reviewed published literature describing the monitoring of the at risk structure 		C73	Malignant neoplasm of thyroid gland		
 A reasonable monitorist would not question why the surgeon wanted the monitoring 		D22.22	Melanocytic nevi of left ear and external auricular canal		
When	cranial and/or facial nerves are involved or at risk:	D22.21	Melanocytic nevi of right ear and external auricular		
D11.0	Benign neoplams of parotid gland		canal		
D11.9	Benign neoplasm of major salivary gland, unspecified	D22.20	Melanocytic nevi of unspecified ear and external auricular canal		
D11.7	Benign neoplasm of other major salivary glands	H83.3X9	Noise effects on inner ear, unspecified ear		
D11.0	Benign neoplasm of parotid gland	E04.9	Nontoxic goiter, unspecified		
H71.03	Cholesteatoma of attic, bilateral	D23.22	Other benign neoplasm of skin of left ear and external auricular canal		
H71.02	Cholesteatoma of attic, left ear	D23.21			
H71.0	Cholesteatoma of attic, right ear	D23.21	Other benign neoplasm of skin of right ear and external auricular canal		
H71.00	Cholesteatoma of attic, unspecified ear	D23.20	Other benign neoplasm of skin of unspecified ear		
H71.13	Cholesteatoma of tympanum, bilateral		and external auricular canal		
H71.12	Cholesteatoma of tympanum, left ear	H91.8X3	Other specified hearing loss, bilateral		
H71.11	Cholesteatoma of tympanum, right ear	H91.8X2	Other specified hearing loss, left ear		
H71.10	Cholesteatoma of tympanum, unspecified ear	H91.8X1	Other specified hearing loss, right ear		
H70.2	23 Chronic petrositis, bilateral	H91.8X9	Other specified hearing loss, unspecified ear		
H70.2	22 Chronic petrositis, left ear	H74.42	Polyp of left middle ear		
H70.2	21 Chronic petrositis, right ear	H74.43	Polyp of middle ear, bilateral		
H70.2	29 Chronic petrositis, unspecified ear	H74.40	Polyp of middle ear, unspecified ear		
H71.3	B Diffuse cholesteatosis, bilateral	H74.41	Polyp of right middle ear		
H71.3	2 Diffuse cholesteatosis, left ear	E05.01	Thyrotoxicosis with diffuse goiter, with thyrotoxic		
H71.3	Diffuse cholesteatosis, right ear	E05.00	Crisis or storm Thyrotoxicosis with diffuse goiter, without thyrotoxic crisis or storm		
H71.30	Diffuse cholesteatosis, unspecified ear				
R90.0	Intracranial space-occupying lesion found on diagnostic imaging of central nervous system	E05.21	Thyrotoxicosis with toxic multinodular goiter, with thyrotoxic crisis or storm		
E01.2	lodine-deficiency related (endemic) goiter, unspecified	E05.20	Thyrotoxicosis with toxic multinodular goiter, without thyrotoxic crisis or storm		



	conjunction with superior canal dehiscence nen pulsatile tinnitus is a symptom:	M47.26	Other spondylosis with radiculopathy, lumbar region
H83.2X9	Labyrinthine dysfunction, unspecified ear	M47.27	Other spondylosis with radiculopathy, lumbosacral region
H83.2X1	Labyrinthine dysfunction, right ear		
H83.2X2	Labyrinthine dysfunction, left ear	M47.28	Other spondylosis with radiculopathy, sacral and
H83.2X9	Labyrinthine dysfunction, unspecified ear	N47.000	sacrococcygeal region
H83.2X3	Labyrinthine dysfunction, bilateral	M47.896	Other spondylosis, lumbar region
H83.2X9	Labyrinthine dysfunction, unspecified ear	M47.897	Other spondylosis, lumbosacral region
H83.2X1	Labyrinthine dysfunction, right ear	M47.898	Other spondylosis, sacral and sacrococcygeal region
H83.2X2	Labyrinthine dysfunction, left ear	M96.1	Postlaminectomy syndrome, not elsewhere classified
H83.2X9	Labyrinthine dysfunction, unspecified ear		
	Labyrinthine dysfunction, bilateral	M96.1	Postlaminectomy syndrome, not elsewhere classified
When root and/or cord are felt to be at risk and/or pedicular screw thresholding is warranted:		M96.1	Postlaminectomy syndrome, not elsewhere
M50.33	Other cervical disc degeneration, cervicothoracic		classified
	region	M96.1	Postlaminectomy syndrome, not elsewhere
M50.31	Other cervical disc degeneration, high cervical		classified
MEO 22	region Other continued disc degeneration maid continued	M48.9	Spondylopathy, unspecified
M50.32	Other cervical disc degeneration, mid-cervical region	M47.816	Spondylosis without myelopathy or radiculopathy, lumbar region
M50.30	Other cervical disc degeneration, unspecified cervical region	M47.817	Spondylosis without myelopathy or radiculopathy, lumbosacral region
M50.23	Other cervical disc displacement, cervicothoracic region	M47.818	Spondylosis without myelopathy or radiculopathy, sacral and sacrococcygeal region
M50.21	Other cervical disc displacement, high cervical region	M51.9	Unspecified thoracic, thoracolumbar and lumbosacral intervertebral disc disorder
M50.22	Other cervical disc displacement, mid-cervical region		Tambécasta menyertéstal ales dicerces
M50.20	Other cervical disc displacement, unspecified cervical region		conjunction with superior canal dehiscence n indicates significant carotid stenosis:
M51.36	Other intervertebral disc degeneration, lumbar region	H93.19	Tinnitus, unspecified ear
		H93.11	Tinnitus, right ear
M51.37	Other intervertebral disc degeneration, lumbosacral region	H93.12	Tinnitus, left ear
		H93.13	Tinnitus, bilateral
M51.26	Other intervertebral disc displacement, lumbar region		



APPLICABLE SOCIAL SECURITY AND MEDICARE REGULATIONS

- Social Security Act (Title XVIII) Standard References, Sections:
- Title XVIII of the Social Security Act, Section 1862(a)(1)(A).
 This section allows coverage and payment for only those services that are considered to be medically reasonable and necessary.
- Title XVIII of the Social Security Act, Section 1833(e). This section prohibits Medicare payment for any claim which lacks the necessary information to process the claim. (Individual sections are available at http://www.cms.hhs. gov/)
- Medicare Benefit Policy Manual and Medicare National Coverage Determinations Manual
- (1). Pub. 100-08 Medicare Program Integrity.
- 5.1 Reasonable and Necessary Provisions in LCDs http:// www.cms.hhs.gov/transmittals/Downloads/R63PI.pdf
- (2). CHAP 4.doc Version 13.3 NATIONAL CORRECT CODING INITIATIVE POLICY MANUAL http://www.cms. hhs.gov/NationalCorrectCodInitEd/Downloads/manual.zip
- 3. Medicare Benefit Policy Manual Chapter 15 Covered

- Medical and Other Health Services, 80 80 Requirements for Diagnostic X-Ray, Diagnostic Laboratory, and Other Diagnostic Tests.
- Section 410.32(b) of the Code of Federal Regulations
 (CFR) requires that diagnostic tests covered under
 §1861(s)(3) of the Act and payable under the physician fee
 schedule, with certain exceptions listed in the regulation,
 have to be performed under the supervision of an
 individual meeting the definition of a physician (§1861(r)
 of the Act) to be considered reasonable and necessary
 and, therefore, covered under Medicare.
- Of the three levels of supervision, General, Direct and Personal, the add-on code 95940 and 95941 requires that this "Procedure may be performed by a technician with on-line real-time contact with physician." (Medicare Benefit Policy Manual Chapter 15 – Covered Medical and Other Health Services, 80 80 - Requirements for Diagnostic X-Ray, Diagnostic Laboratory, and Other Diagnostic Tests., http://www.cms.hhs.gov/ manuals/ Downloads/bp102c15.pdf http://www.access.gpo.gov/ nara/cfr

POLICY HISTORY

Approved February 2010, by the AANPA Board of Directors (AAN Policy 2010-12) Amended on February 10, 2012 and July 31, 2018 by the AAN Board of Directors.

This policy is updated annually to reflect changes in procedure codes.

SOURCES OF INFORMATION AND BASIS FOR DECISION

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