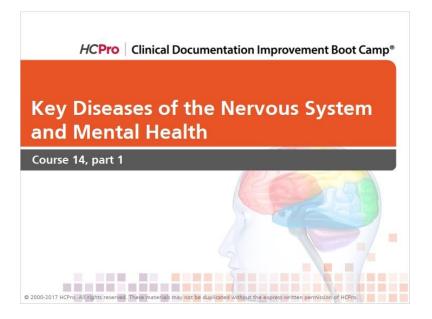
# Key Diseases of the Nervous System and Mental Health (part 1)

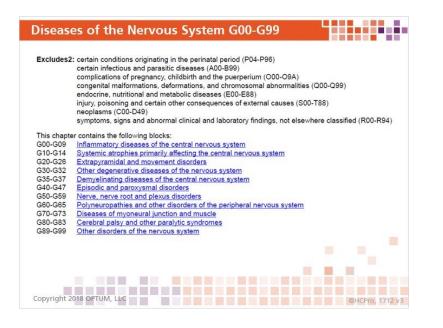
# **Study Guide**

**1.1** Key Diseases Associated with the Digestive, Hepatobiliary and Urinary

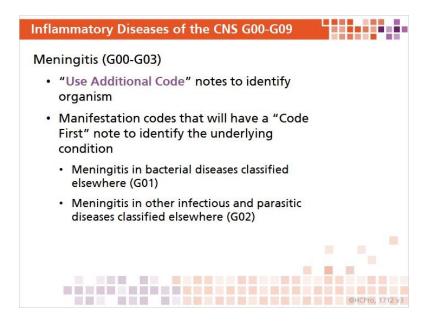
#### Systems



# **1.3 Diseases of the Nervous System G00-G99**



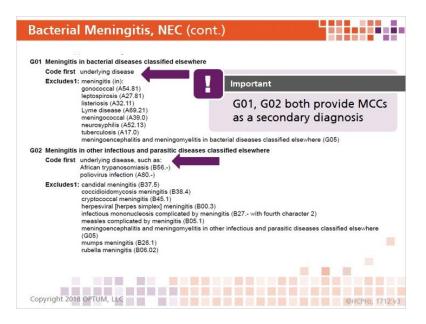
# 1.4 Inflammatory Diseases of the CNS G00-G09



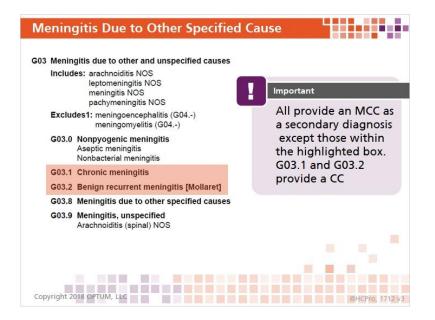
# 1.5 Bacterial Meningitis, NEC

G00 Bacte	rial meningitis, not elsewhere classified	
Includ	es: bacterial arachnoiditis bacterial leptomeningitis bacterial meningitis	Important
	bacterial pachymeningitis	All provide MCCs
Exclu	des1: bacterial: meningoencephalitis (G04.2) meningomyelitis (G04.2)	as a secondary
G00.0	Hemophilus meningitis Meningitis due to Hemophilus influenzae	diagnosis
G00.1	Pneumococcal meningitis	
G00.2	Streptococcal meningitis	
	Use additional code to further identify organism (B95.0-B95.5)	
G00.3	Staphylococcal meningitis	
	Use additional code to further identify organism (B95.61-B95.8)	
G00.8	Other bacterial meningitis Meningitis due to Escherichia coli Meningitis due to Friedländer's bacillus Meningitis due to Kiebsiella	
	Use additional code to further identify organism (B96)	
G00.9	Bacterial meningitis, unspecified Meningitis due to gram-negative bacteria, unspecified Purulent meningitis NOS Supourative meningitis NOS	1.2.2.4

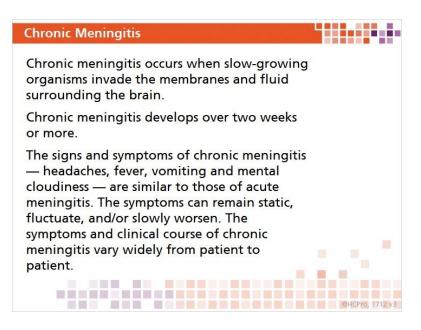
# 1.6 Bacterial Meningitis, NEC (cont.)



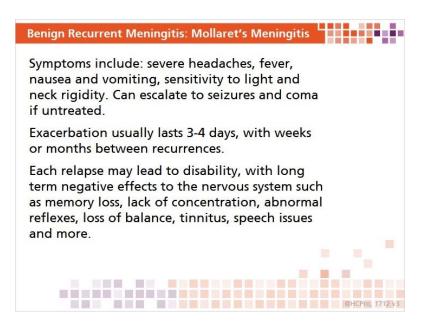
### 1.7 Meningitis Due to Other Specified Cause



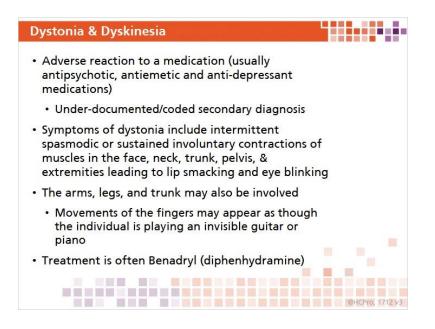
# 1.8 Chronic Meningitis



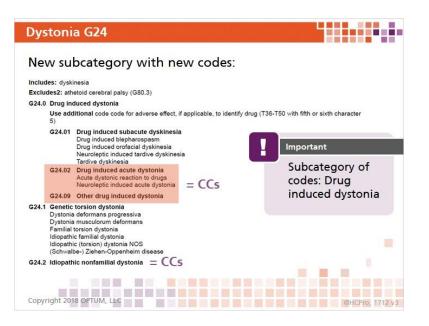
#### 1.9 Benign Recurrent Meningitis: Mollaret's Meningitis



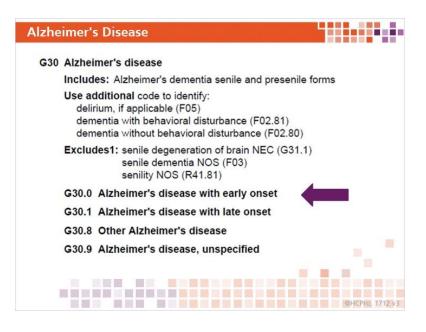
### 1.10 Dystonia & Dyskinesia



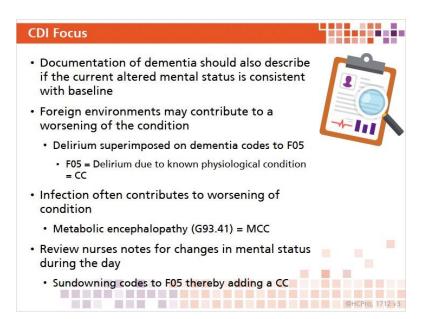
# 1.11 Dystonia G24



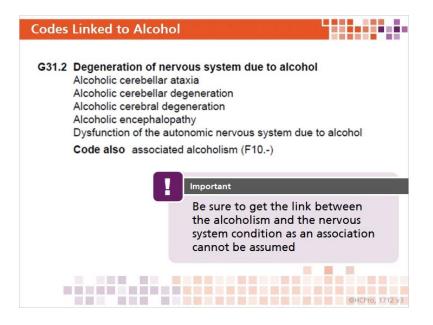
# 1.12 Alzheimer's Disease



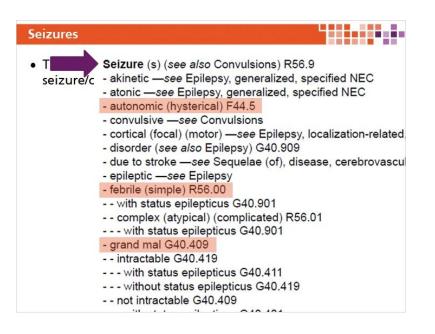
## 1.13 CDI Focus



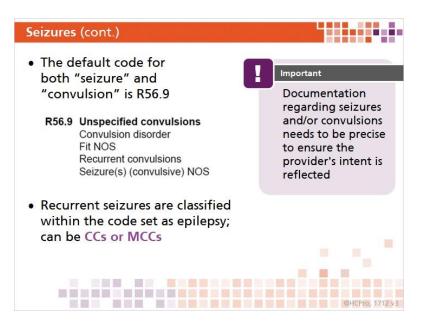
# 1.14 Codes Linked to Alcohol



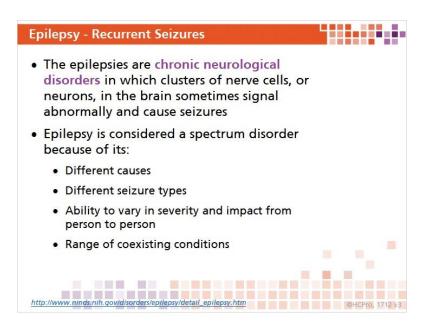
#### 1.15 Seizures



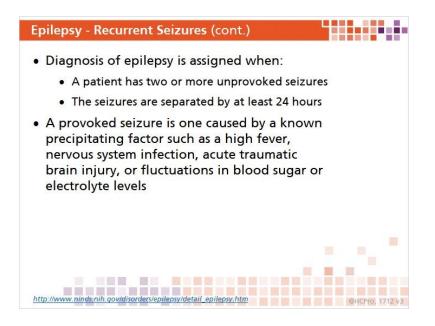
#### 1.16 Seizures



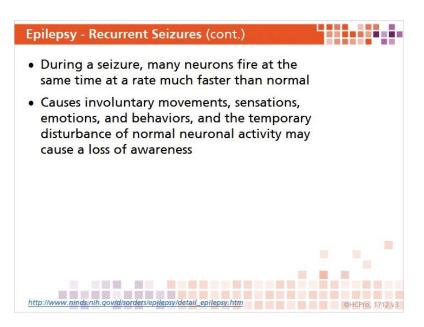
### 1.17 Epilepsy - Recurrent Seizures



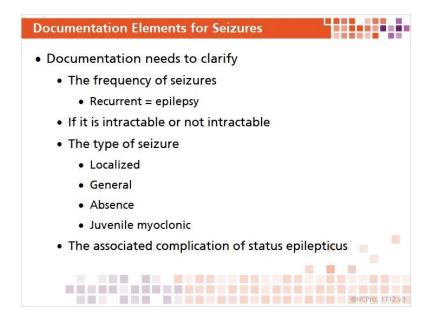
# 1.18 Epilepsy - Recurrent Seizures (cont.)



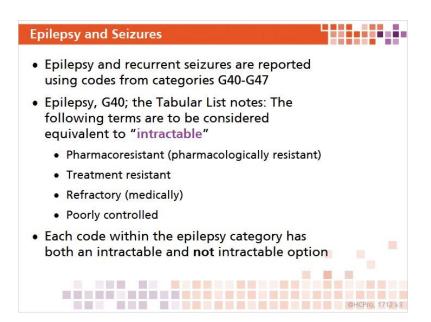
# 1.19 Epilepsy - Recurrent Seizures (cont.)



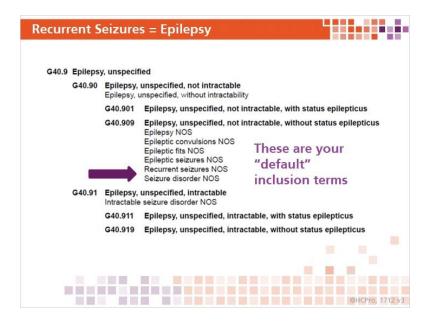
# 1.20 Documentation Elements for Seizures



#### 1.21 Epilepsy and Seizures



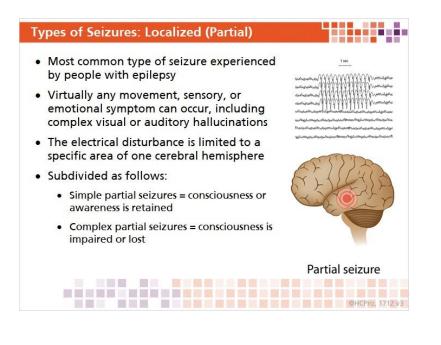
### 1.22 Recurrent Seizures = Epilepsy



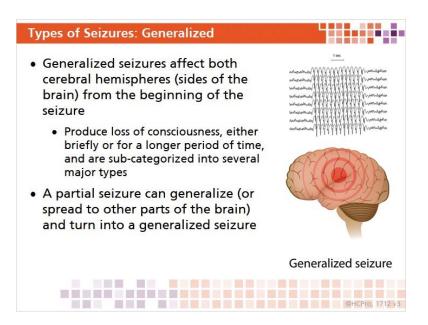
### 1.23 Section Break: Types of Seizures



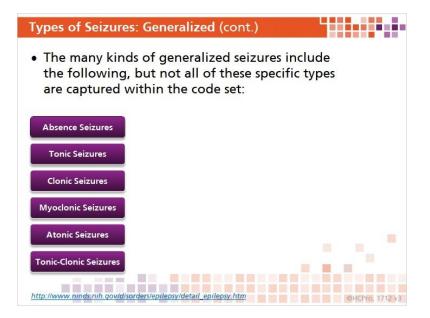
# 1.24 Types of Seizures: Localized (Partial)



### 1.25 Types of Seizures: Generalized



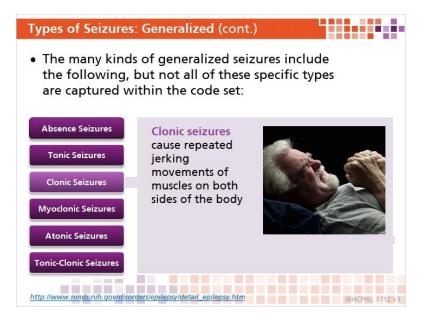
# 1.26 Types of Seizures: Generalized



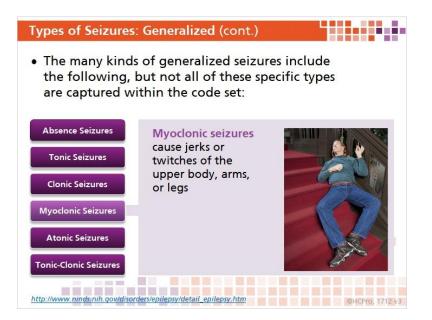
### Tonic (Slide Layer)



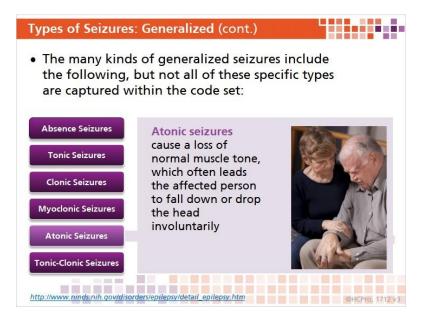
### Clonic (Slide Layer)



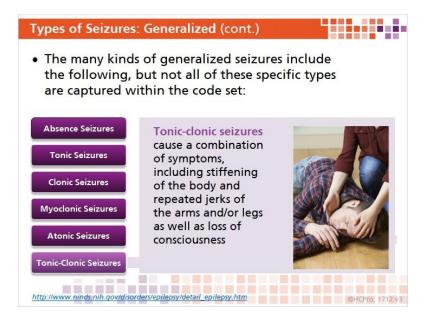
#### Myoclonic (Slide Layer)



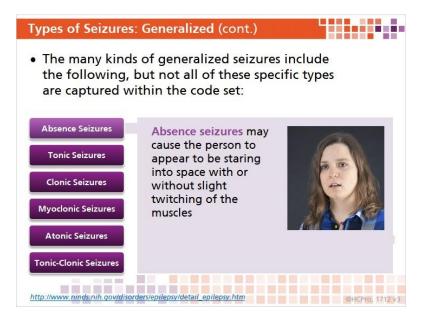
# Atonic (Slide Layer)



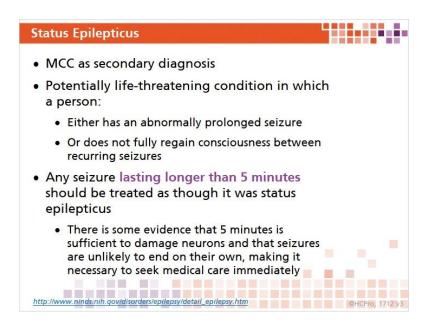
### Tonic-Clonic (Slide Layer)



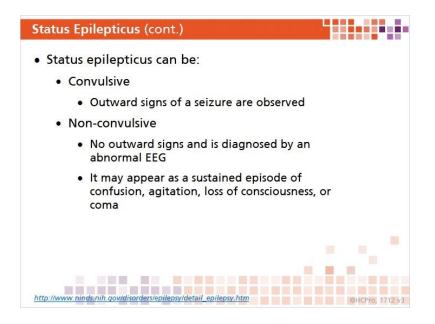
#### **Absence (Slide Layer)**



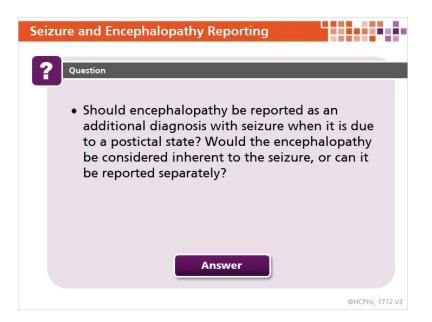
### 1.27 Status Epilepticus



# 1.28 Status Epilepticus



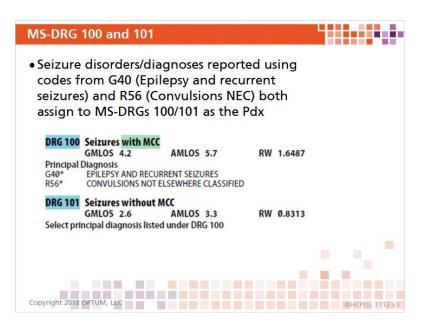
### 1.29 Seizure and Encephalopathy Reporting



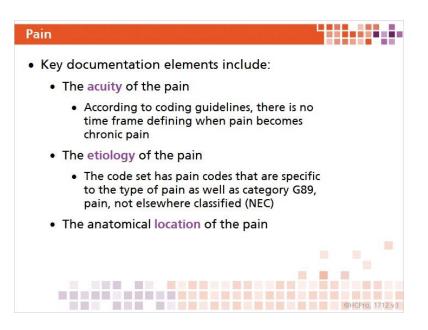
# 1.30 Seizure and Encephalopathy Reporting (cont.)

?	Answer
	<ul> <li>When documentation indicates that encephalopathy is due to the postictal state of seizure it is considered inherent to the seizure and should not be coded separately.</li> <li>Coding Clinic 4th quarter 2013 described the postictal state of a seizure as being a transient deficit that occurs between the end of an epileptic seizure and the patients return to baseline. This period of decreased functioning in the postictal period usually lasts less than 48 hours. Therefore, the encephalopathy is integral to the condition.</li> </ul>
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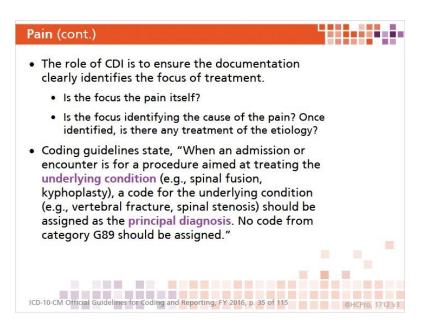
#### 1.31 MS-DRG 100 and 101



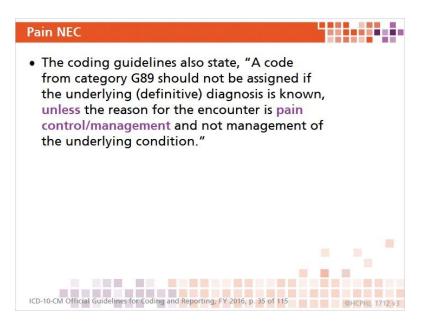
#### 1.35 Pain



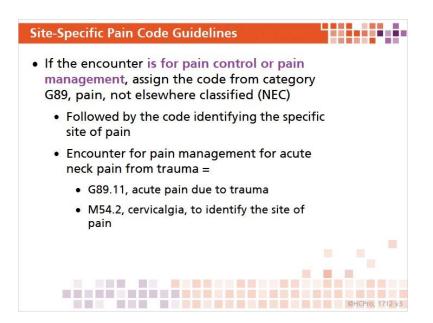
# 1.36 Pain (cont.)



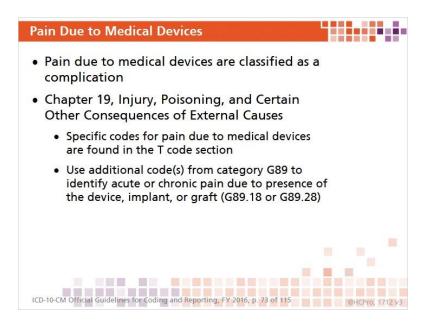
# 1.37 Pain NEC



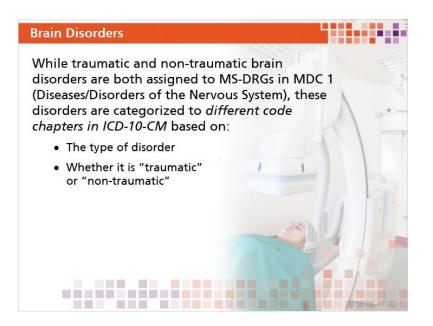
#### 1.38 Site-Specific Pain Code Guidelines



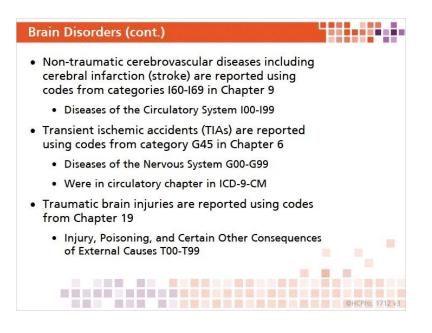
#### 1.39 Pain Due to Medical Devices



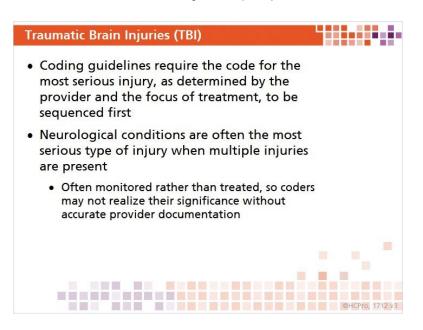
#### 1.40 Brain Disorders



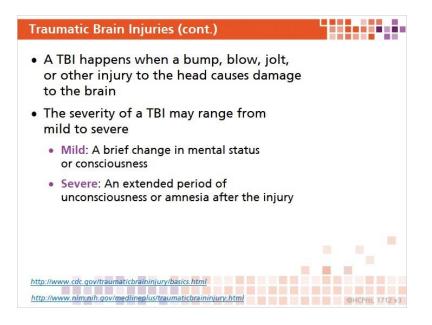
### 1.41 Brain Disorders



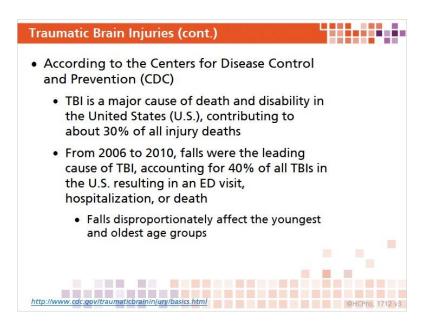
### 1.42 Traumatic Brain Injuries (TBI)



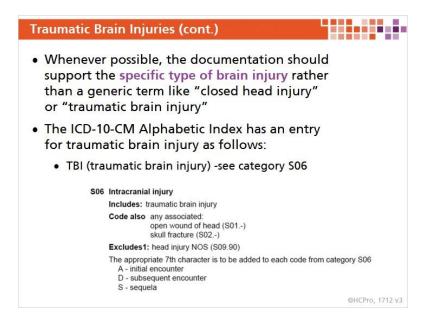
# 1.43 Traumatic Brain Injuries (cont.)



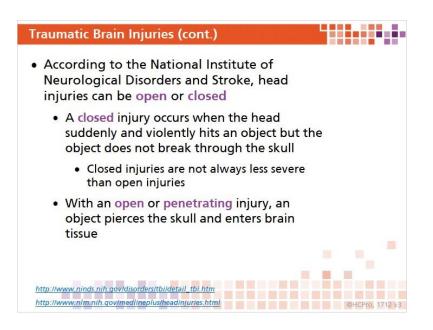
### 1.44 Traumatic Brain Injuries (cont.)



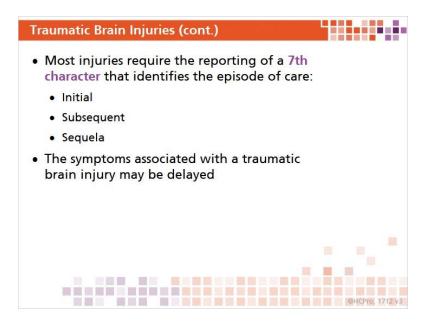
# 1.45 Traumatic Brain Injuries (cont.)



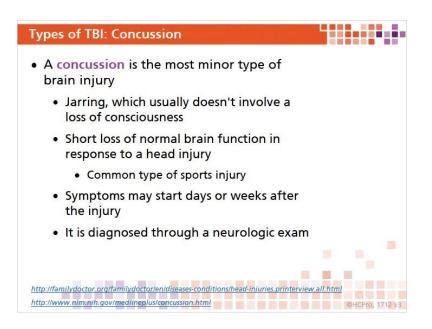
### 1.46 Traumatic Brain Injuries (cont.)



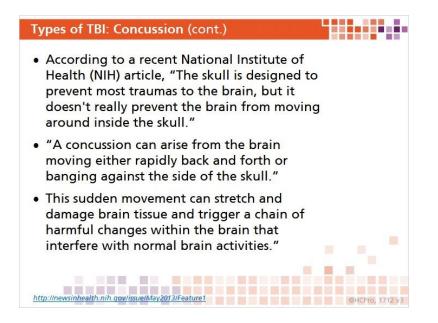
# 1.47 Traumatic Brain Injuries (cont.)



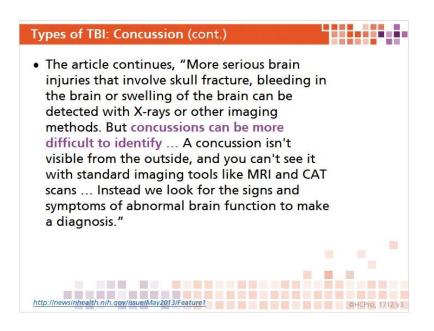
### 1.48 Types of TBI: Concussion



# 1.49 Types of TBI: Concussion



### 1.50 Types of TBI: Concussion



# 1.51 Types of TBI: Concussion



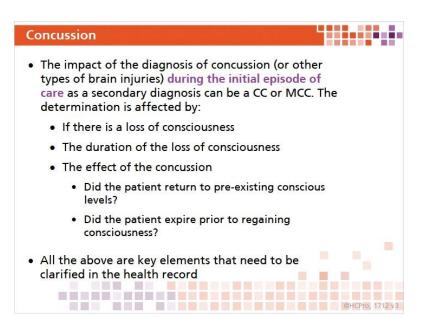
# **1.52** Sample Concussion Codes: Most Are Classified by CMS as CCs

			ssion Codes: Most Are
	Concus Commot	sion io cerebri	
	Exclude	s1: concus injury	sion with other intracranial injuries classified in category S06- code to specified intracrania
	S06.0X	Concussi	on
		\$06.0X0	Concussion without loss of consciousness
		S06.0X1	Concussion with loss of consciousness of 30 minutes or less
		\$06.0X2	Concussion with loss of consciousness of 31 minutes to 59 minutes
		\$06.0X3	Concussion with loss of consciousness of 1 hour to 5 hours 59 minutes
		\$06.0X4	Concussion with loss of consciousness of 6 hours to 24 hours
		\$06.0X5	Concussion with loss of consciousness greater than 24 hours with return to pre- existing conscious level
MC	C	\$06.0X6	Concussion with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving
		S06.0X7	Concussion with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness
		S06.0X8	Concussion with loss of consciousness of any duration with death due to other cause prior to regaining consciousness
		\$06.0X9	Concussion with loss of consciousness of unspecified duration Concussion NOS
			©HCPro, 1712 v

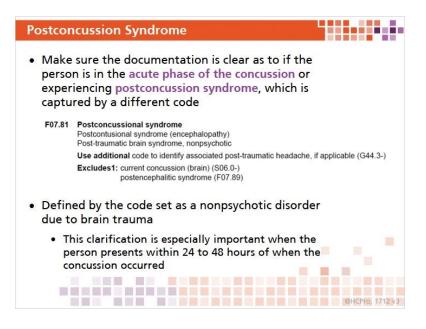
# 1.53 Concussion as a Pdx

DRG 088 Concussion with	and the second se	014	
GMLOS 3.5	AMLOS 4.5	RW	1.4045
Principal Diagnosis S06.0X0A CONCUSSION W/O	LOC INITIAL ENCOUNTE	R	
	C 30 MIN/LESS INITIAL		ER
SØ6.0X9A CONCUSSION W/LC	C UNSP DURATION INIT	TAL ENCO	JNTER
DRG 089 Concussion with			
GMLOS 2.7	AMLOS 3.3	RW	1.0068
Select principal diagnosis list	ed under DRG 088	1000	
DRG 090 Concussion with	aut CC/MCC		
GMLOS 2.0	AMLOS 2.3	PW	0.7907
Select principal diagnosis list			0.7507
, , , , , , , , , , , , , , , , , ,			

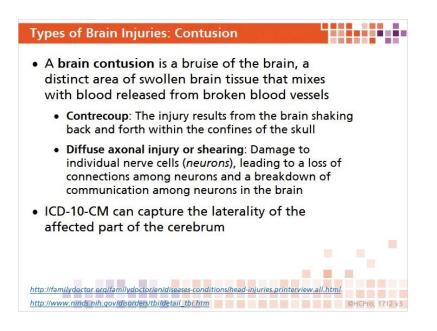
#### 1.54 Concussion



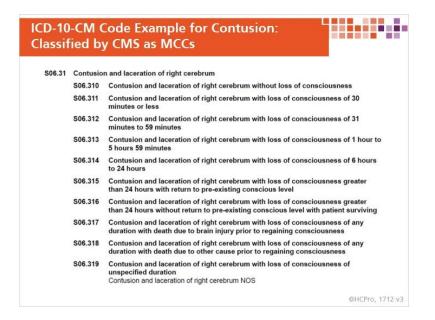
### 1.55 Postconcussion Syndrome



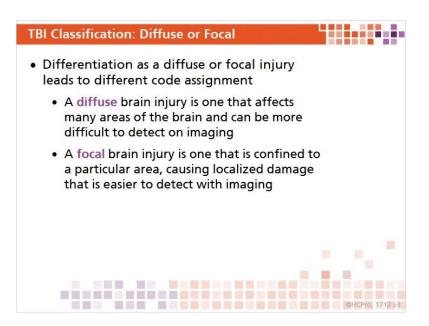
#### 1.56 Types of Brain Injuries: Contusion



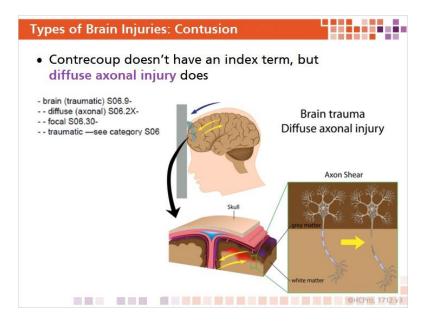
# 1.57 ICD-10-CM Code Example for Contusion: Classified by CMS as MCCs



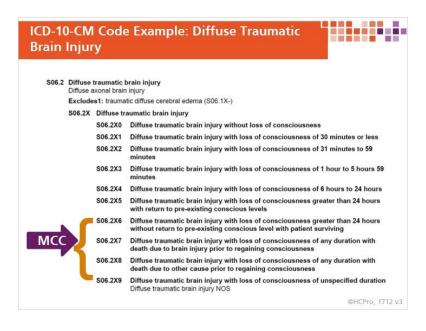
### 1.58 TBI Classification: Diffuse or Focal



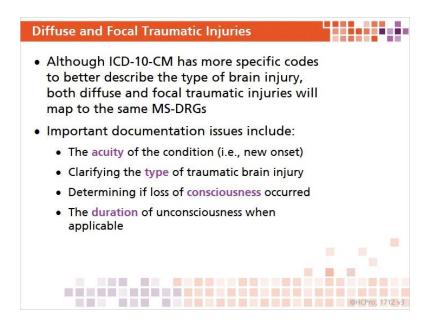
# 1.59 Types of Brain Injuries: Contusion



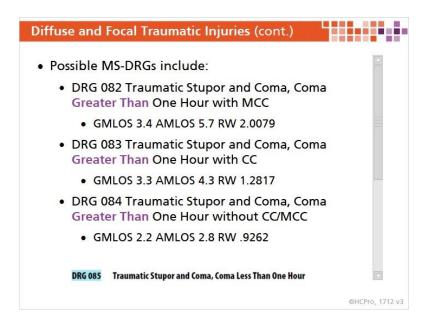
# 1.60 ICD-10-CM Code Example: Diffuse Traumatic Brain Injury



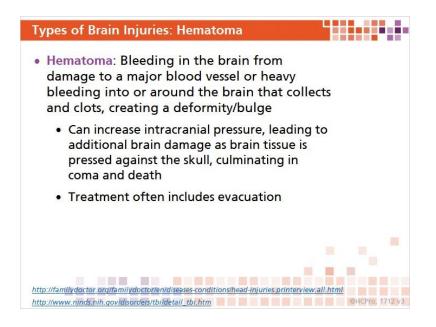
# 1.61 Diffuse and Focal Traumatic Injuries



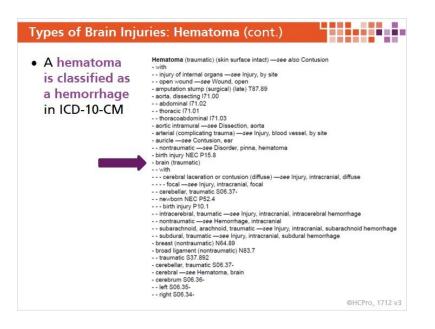
### 1.62 Diffuse and Focal Traumatic Injuries



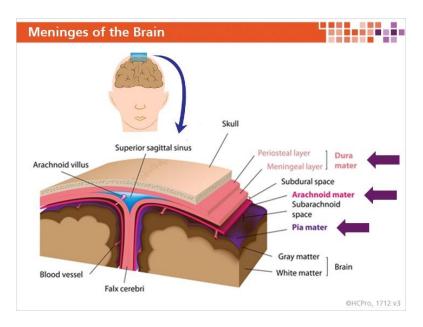
# 1.63 Types of Brain Injuries: Hematoma



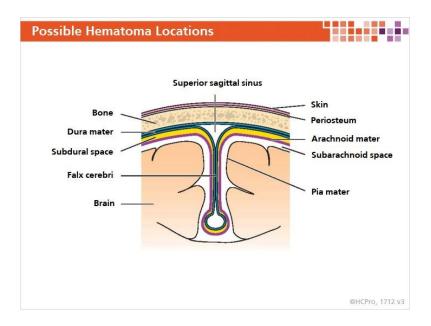
### 1.64 Types of Brain Injuries: Hematoma



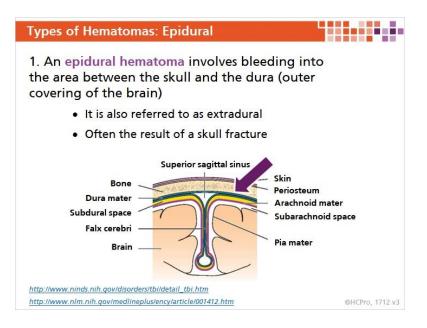
# 1.65 Meninges of the Brain



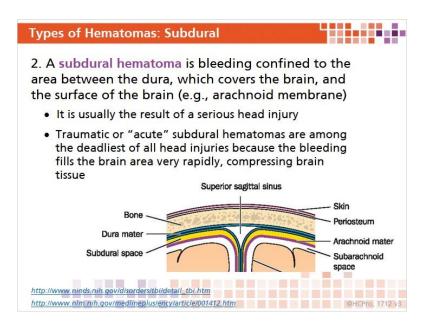
### 1.66 Possible Hematoma Locations



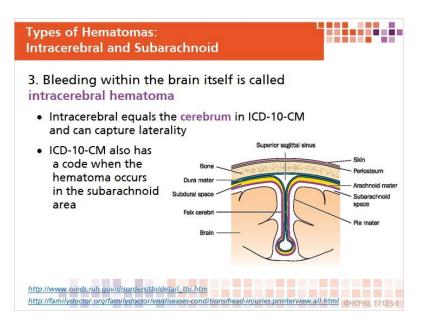
# 1.67 Types of Hematomas: Epidural



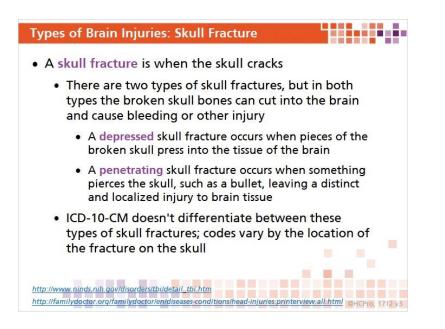
### 1.68 Types of Hematomas: Subdural



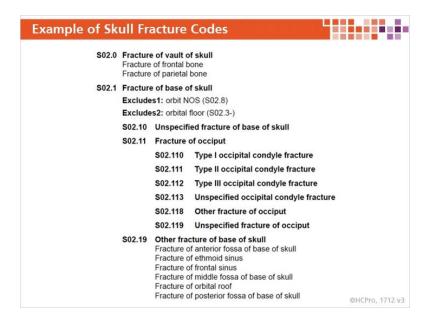
1.69 Types of Hematomas: Intracerebral and Subarachnoid



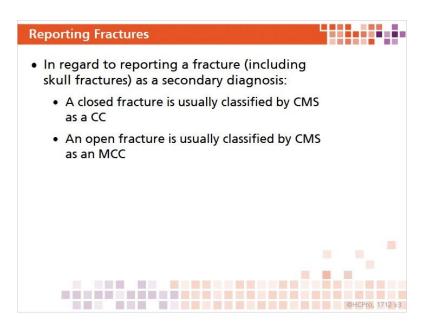
#### 1.70 Types of Brain Injuries: Skull Fracture



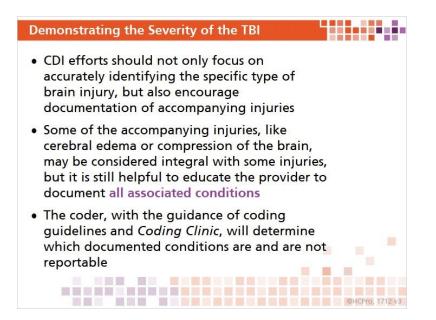
## 1.71 Example of Skull Fracture Codes



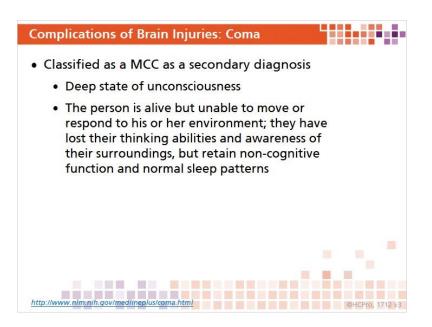
#### 1.72 Reporting Fractures



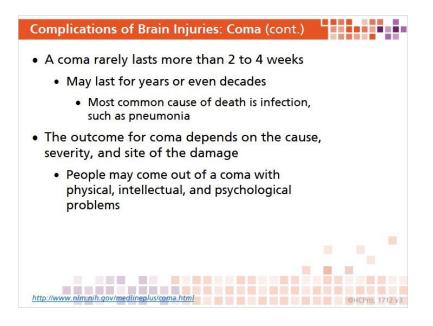
## 1.73 Demonstrating the Severity of the TBI



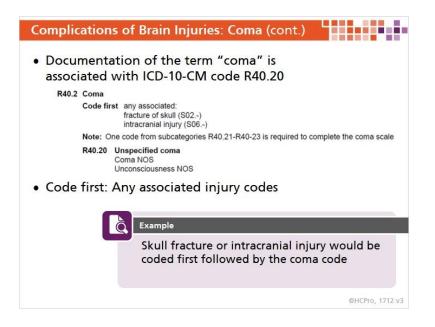
#### 1.74 Complications of Brain Injuries: Coma



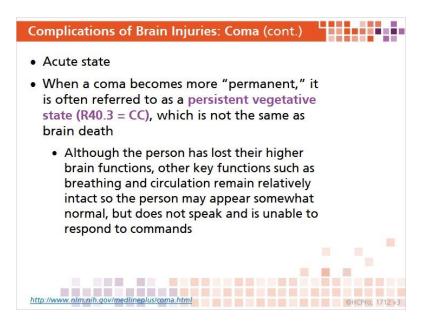
## 1.75 Complications of Brain Injuries: Coma



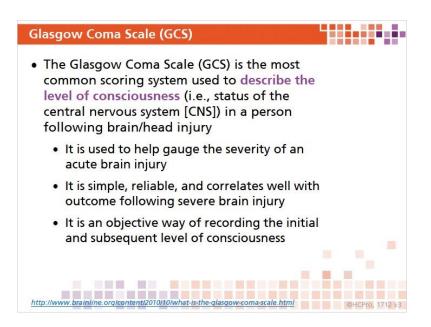
#### 1.76 Complications of Brain Injuries: Coma



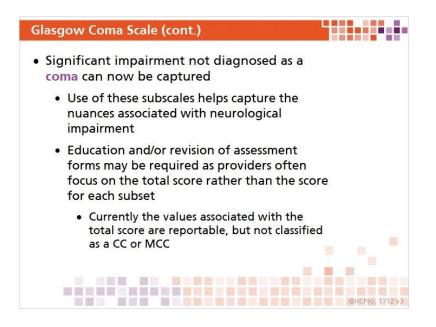
# 1.77 Complications of Brain Injuries: Coma (cont.)



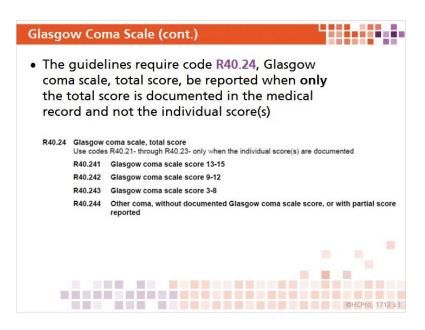
## 1.78 Glasgow Coma Scale (GCS)



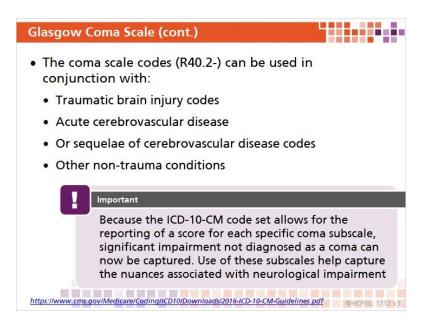
## 1.79 Glasgow Coma Scale (cont.)



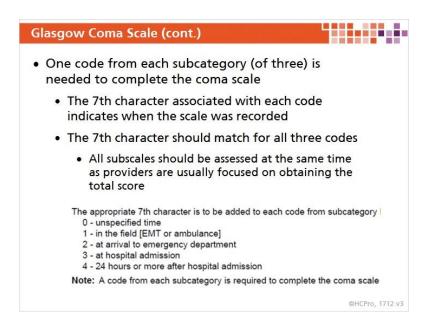
#### 1.80 Glasgow Coma Scale (cont.)



## 1.81 Glasgow Coma Scale (cont.)



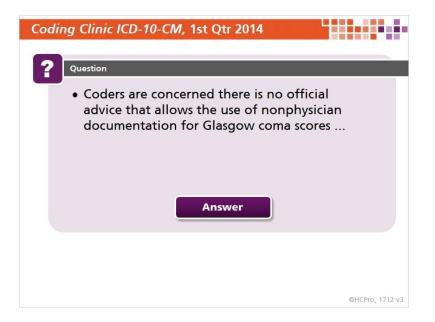
#### 1.82 Glasgow Coma Scale (cont.)



## 1.83 Glasgow Coma Scale (cont.)



## 1.84 Coding Clinic ICD-10-CM, 1st Qtr 2014



# 1.85 Coding Clinic ICD-10-CM, 1st Qtr 2014 (cont.)

Coding Clinic ICD-10-CM, 1st Qtr 2014 (cont.)
Answer
• Because coders were concerned about whose documentation can be used for the Glasgow coma scale, <i>Coding Clinic</i> clarified <b>that it is appropriate</b> to use non-providers and prehospital reports to determine the Glasgow coma scale.
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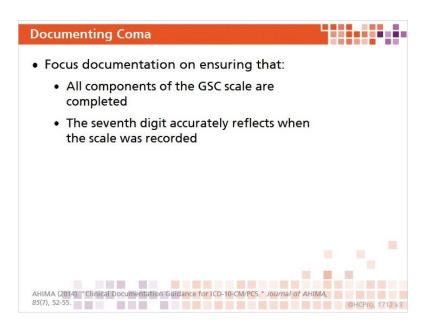
## 1.86 Coma Subscales

Coma Subse	ales	
to include	e each s	D, trauma, and neurology staff ection of the coma scale on forms to capture this specificity
R40.21	Coma sca	ale, eyes open
	R40.211	Coma scale, eyes open, never = MCC
	R40.212	Coma scale, eyes open, to pain $=$ MCC
	R40.213	Coma scale, eyes open, to sound
	R40.214	Coma scale, eyes open, spontaneous
		©HCPro, 1712 v3

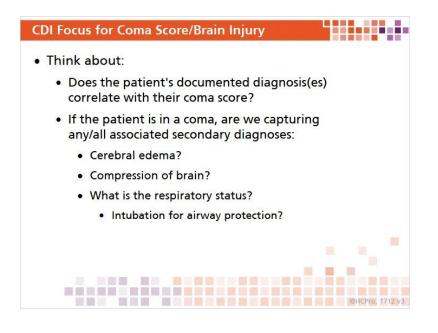
## 1.87 Coma Subscales

R40.22	Coma scale, best verbal response			
MCC	R40.221	Coma scale, best verbal response, none		
MCC	R40.222	Coma scale, best verbal response, incomprehensible words		
	R40.223	Coma scale, best verbal response, inappropriate words		
	R40.224	Coma scale, best verbal response, confused conversation		
	R40.225	Coma scale, best verbal response, oriented		
R40.23	Coma sc	coma scale, best motor response		
MCC	R40.231	Coma scale, best motor response, none		
MCC	R40.232	Coma scale, best motor response, extension		
	R40.233	Coma scale, best motor response, abnormal		
	R40.234	Coma scale, best motor response, flexion withdrawal		
	R40.235	Coma scale, best motor response, localizes pain		
	R40.236	Coma scale, best motor response, obeys commands		

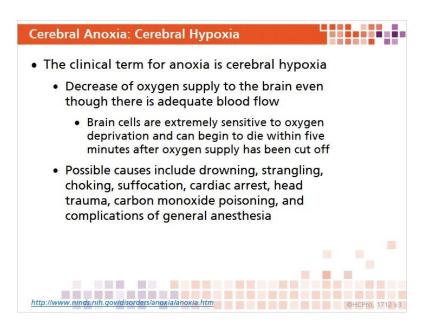
#### 1.90 Documenting Coma



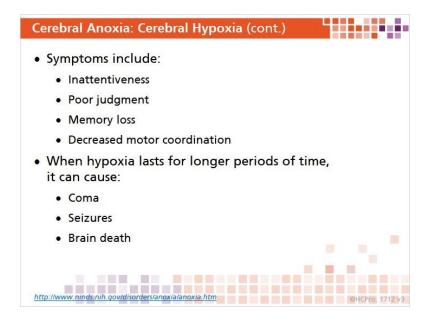
## 1.91 CDI Focus for Coma Scale/Brain Injury



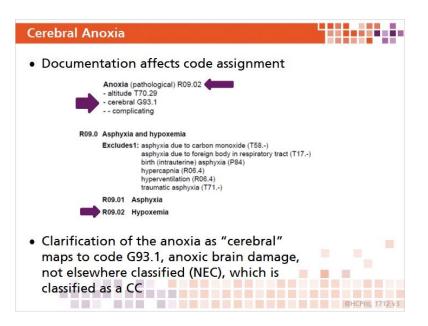
## 1.92 Cerebral Anoxia: Cerebral Hypoxia



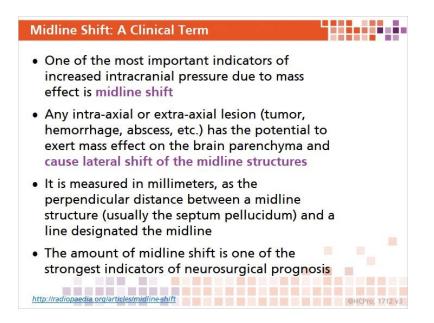
## 1.93 Cerebral Anoxia: Cerebral Hypoxia



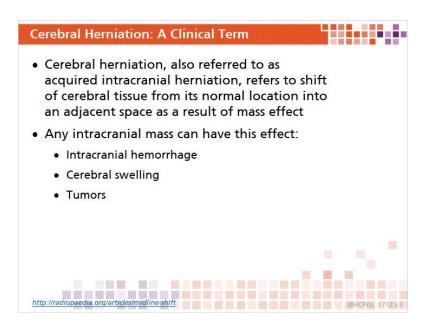
#### 1.94 Cerebral Anoxia



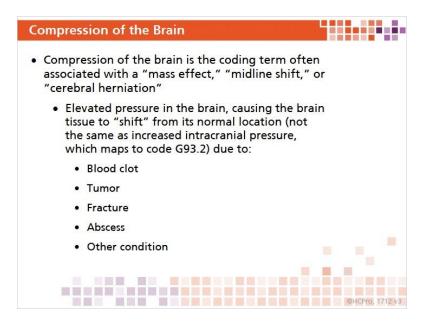
## 1.95 Midline Shift: A Clinical Term



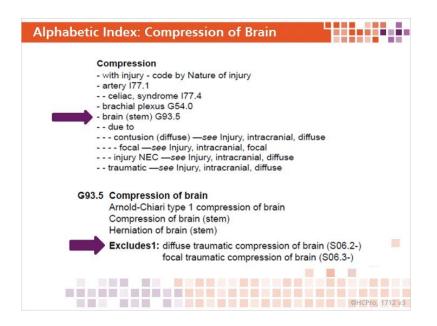
#### 1.96 Cerebral Herniation: A Clinical Term



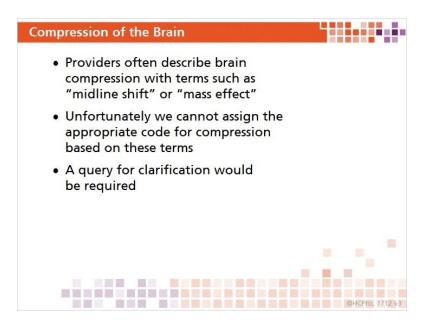
#### 1.99 Compression of the Brain



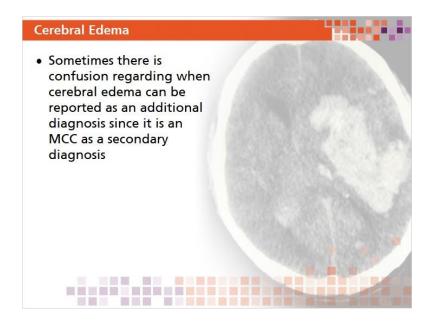
## 1.100 Alphabetic Index: Compression of Brain



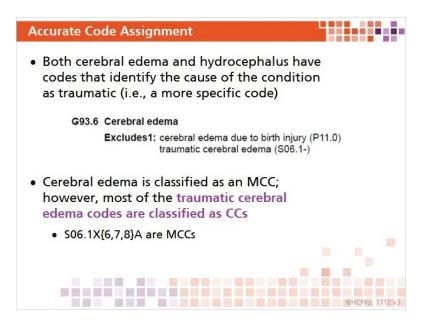
## 1.101 Compression of the Brain



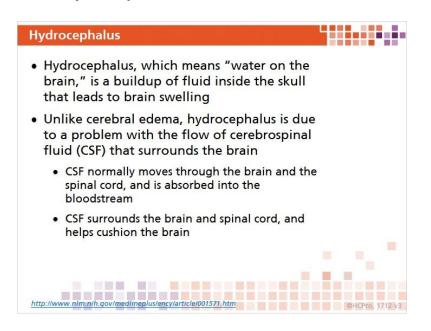
#### 1.102 Cerebral Edema



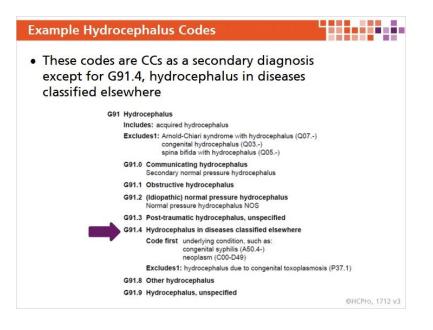
## 1.103 Accurate Code Assignment



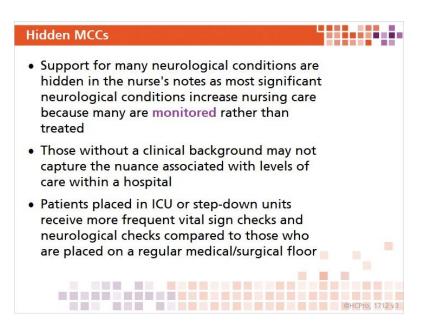
#### 1.104 Hydrocephalus



#### 1.105 Example Hydrocephalus Codes



#### 1.106 Hidden MCCs



#### 1.107 How to Capture "Hidden" MCCs

