

Presentations for PowerPoint

Introduction to Medical Terminology



The Goodheart-Willcox Co., Inc. Tinley Park, Illinois

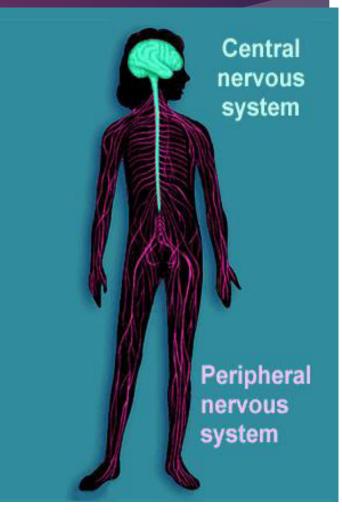


The Nervous System

Divisions of the Nervous System

Central Nervous System (CNS)

- Brain and spinal cord.
- Also know as the "command center"
- Peripheral Nervous System (PNS)
 - Nerves that extend
 - Deliverer



Neurons (Nerve Cells)

Fundamental cells of the nervous system. Found in the brain, spinal cord, and peripheral nerves.

When neurons come together in a bundle, this is called nerves



The Nervous System

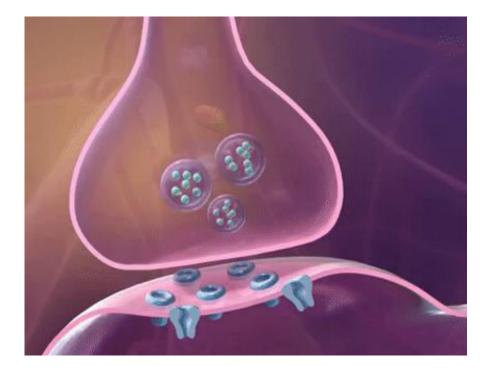
- The basic parts to a neuron are
 - Body, dendrites, and axon.

Synapse

The contact point at which neurons communicate

Neurotransmitters

Chemical messengers passed through the neural impulse across the synapse



The Nervous System

Stimuli

Changes in the external or internal environment

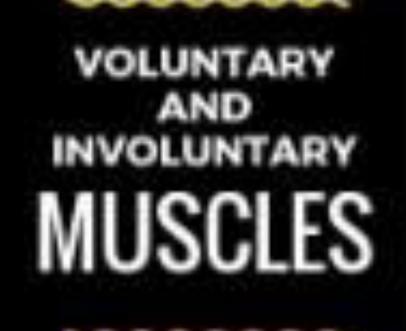
Voluntary movement

Skeletal muscle (texting)

Involuntary movement

Muscles and glands (heart)







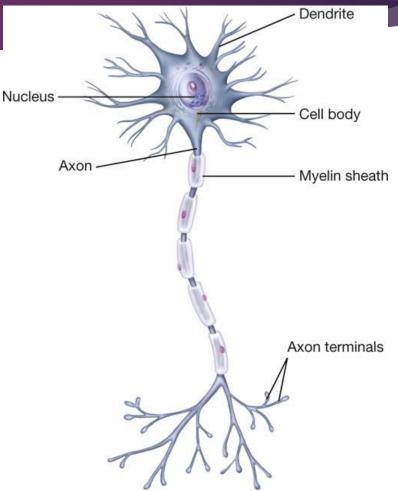
Structures of the Nervous System

Neurons

Sensory

Motor

Neuroglial cells



Cerebr-	Cerebrum
Cerebell-	Cerebellum
Para-	Near
Myle/o	Spinal cord
Α-	Not: without

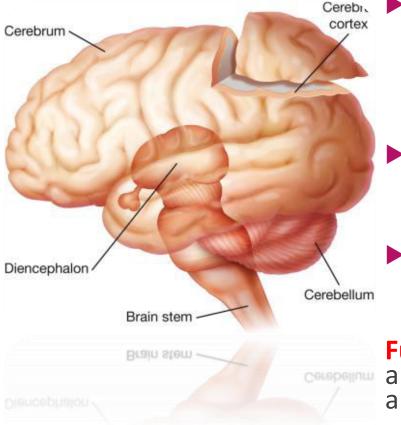
Hemi-	Half
-al	Pertaining to
-lepsy	Seizure
Dur/o-	Dura mater
Mening/o	Meninges
-plegia	paralysis

Central Nervous System

Made of the brain and spinal cord



The Brain



Cerebrum-

Largest brain region. Highest level of cognitive functions such as language, reasoning, planning, memory, and sensory integration.

Cerebellum-

Controls your body's balance and equilibrium

Cerebrospinal fluid-

Protects brain and spinal cord from injury

Fun Fact!! The human adult brain weighs about **three pounds**. About the same amount as a half gallon of milk

The Brain Diseases, Test, and Terms

Convulsion (seizure)



- A sudden, abnormal, involuntary contract of muscles
- Epidural hematoma-
 - Blood that forms between skull and the dura mater caused by head injury (bleeding on the brain)
- Epilepsy- Neurological disorder of the CNS in which neural cells of the brain become disrupted, cause seizures

Migraine

Headache that produces intense throbbing

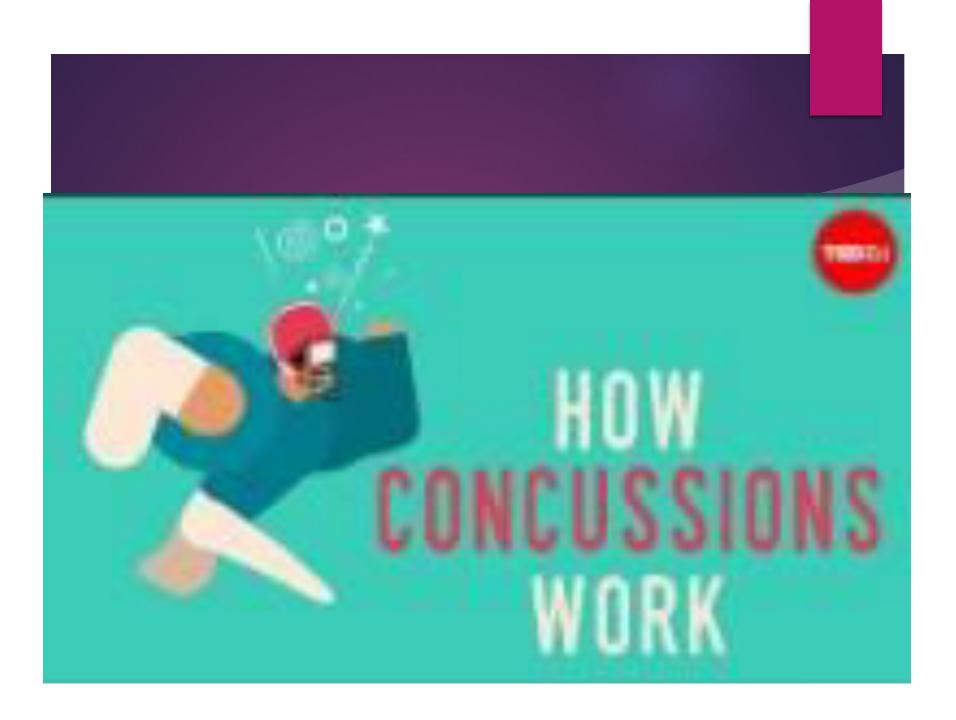
Syncope (fainting)

Temporary loss of consciousness due to low blood flow to the brain

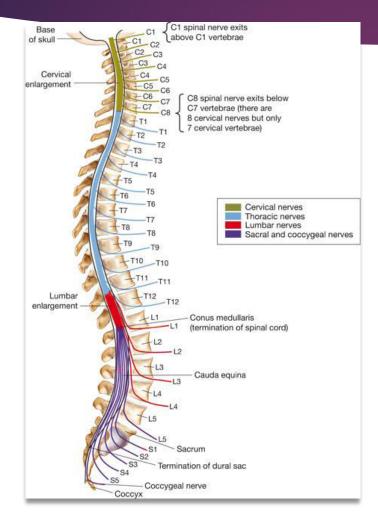
The Brain Diseases, Tests, and Terms



- Alzheimer's Disease (AD)-
 - Progressive, irreversible memory loss
- Cerebrovascular accident (CVA or Stroke)- Death of brain cells caused by blockage or rupture
 - Coma
 - Extended unconsciousness cause by medical crisis
- Concussion
 - Traumatic brain injury (TBI) caused by blow to the head



The Spinal cord



Extend from the medulla oblongata the second lumbar vertebra in the vertebral spinal columns.

Reflex

Involuntary reaction to a stimulus

The Spinal Cord Diseases, Test, and Terms



Hemiplegia- half paralysis

- Paralysis of one side of the body
- Paralysis- near; breakdown
 - Temporary or permanent loss of voluntary movement
- Parkinson's disease (PD)
 - Disorder marked by signs such as tremor, rigid muscles and irregular gait

The Spinal Cord Diseases, Test, and Terms

- Paraplegia- Loss of voluntary movement in the lower body as a result of a spinal cord injury
- Myelomeningocele (Spina bifida)-
 - Split spine. Part of the membrane covering of the spinal cord protrudes through gap in spine
- Amyotrophic lateral sclerosis (ALS)-Muscle weakness and involuntary contractions and excessive reflexes.



Autonomic Nervous System



Sympathetic nervous system "Flight or fight"



Parasympathetic nervous system "Rest and digest"

stop

Mental Disorders and Conditions



Anxiety-

- Excessive worry, nervousness, or uneasiness
- Obsessive-compulsive disorder (OCD)
 - Irrational thought and fears cause one to perform repetitive actions
- Post-traumatic stress disorder (PTSD)
 - Resulting from an extremely traumatic experience, illness or injury
- Attention- deficit/ hyperactivity disorder (ADHD)
 - A person is frequently distracted in hyperactive and lack of impulse control

Mental Disorders and Conditions

Autism spectrum disorder (ASD)

 Development disability that causes difficulty communicating with others, focusing, inability to maintain eye contact etc

Dyslexia-

 Difficulty recognizing and comprehending written language.

Depression

Mood disorder marked by persistent feeling of sadness, worthlessness, and lack of interest in daily activities







Common Medical Abbreviations

	Abbreviation	Meaning
AD		Alzheimer's disease
ADHD		Attention-deficit hyperactivity disorder
ALS		Amyotrophic lateral sclerosis
ASD		Autism spectrum disorder
CNS		Central nervous system

Common Medical Abbreviations

Abbreviation	Meaning
OCD	Obsessive compulsive disorder
Ρ	Pulse
PD	Parkinson's disease
SCI	Spinal cord injury
Τ	Temperature
WNL	Within normal limits
PTSD	Post traumatic stress disorder