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Chapter 14 The  
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Lecture Outline

# Chapter 14 The Brain And Cranial Nerves Lecture Outline

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many become old as  
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something else at  
home and even in  
your workplace. thus  
easy! So, are you  
question? Just  
exercise just what we  
allow under as well as  
evaluation chapter 14  
the brain and cranial  
nerves lecture outline

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Chapter 14 The Brain  
And

Chapter 14: The Brain  
and Cranial Nerves.

Flashcard maker :  
Patricia Harrah.

Which part of the  
brain is the largest?

The largest part of the  
brain is the cerebrum.

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What are the three layers of the cranial meninges, from superficial to deep?

---

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Chapter 14 The Brain and Cranial Nerves 1. Both cerebrum and cerebellum have gray matter in their surface

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cortex and deeper nuclei, and white matter deep to the cortex. True False 2.

The cerebellum exhibits folds called gyri separated by grooves called sulci.

True False 3. Epidural space is filled with cerebrospinal fluid (CSF). True False 4.

The blood-brain barrier (BBB) helps

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prevent hemorrhages  
in the nervous tissue  
of the brain.  
Cranial Nerves  
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Chapter 14 The Brain  
and Cr.doc - Chapter  
14 The Brain and ...  
Chapter 14. The  
Central Nervous  
System. 14.1  
Embryonic  
Development; 14.2  
Blood Flow the



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meninges and  
Cerebrospinal Fluid  
Production and  
Circulation; 14.3 The  
Brain and Spinal  
Cord; 14.4 The Spinal  
Cord; 14.5 Sensory  
and Motor Pathways;  
Chapter 15. The  
Special Senses. 15.1  
Taste; 15.2 Smell;  
15.3 Hearing; 15.4  
Equilibrium; 15.5  
Vision; Chapter 16.

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The Autonomic  
Nervous System  
Cranial Nerves  
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14.3 The Brain and  
Spinal Cord □  
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Brain and other study tools.  
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Elizabeth Granier at  
St. Louis CC  
Meramec Campus.  
This material is part of  
Test 4, the final te...

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Test. PLAY. Match.

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Jennifer\_M\_Schmidt.

Terms in this set (13)

Describe the  
cerebrum in terms of  
location and  
hemispheres? What is  
the function of the  
cerebrum? The

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Cerebrum is the  
largest portion of the  
brain. It is the most  
superior and anterior  
portion.

---

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and other study tools.

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Chapter 14: The Brain

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CHAPTER 14 --

BRAIN-- c. occiptial  
lobe. basal nuclei.

limbic system.

amygdala. associated  
with visual

processing; combine  
colors, shapes, ang.

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These are masses of gray matter deep within the brain and cont. 1. Facilitates memory storage and retrieval; long term memory.

---

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STUDY. Flashcards.



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Learn. Write. Spell.

Test. PLAY. Match.

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hdavis83. Terms in

this set (41) Brain

characteristics. 2% of  
the body weight;

receives about 20% of  
the body's blood

supply and consumes  
20% of the oxygen

and glucose. 4 Major  
regions of the brain.

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Anatomy and  
Physiology Help:

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Chapter 14 Light

Overview ...

chapter 14: the brain  
and cranial nerves

14.1 brain

organization,  
protection, and blood  
supply neural tube the  
brain and spinal cord  
develops from the  
neural

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Chapter 14 (Brain and

*Page 19/81*

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Chapter 14 The

Cranial Nerves) - Biol  
235 - AU ...

Title: Chapter 14: The  
Brain and Cranial

Nerves 1 Chapter 14  
The Brain and Cranial  
Nerves 2 6 Regions of  
the Brain. Cerebrum ;  
Cerebellum ;  
Diencephalon ;  
Mesencephalon ;  
Pons ; Medulla  
oblongata; 3  
Cerebrum . Largest

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## Chapter 14 The

part of brain ; Controls higher mental functions ; Divided into left and right cerebral hemispheres ; Surface layer of gray matter (neural cortex)

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PPT □ Chapter 14:  
The Brain and Cranial  
Nerves PowerPoint ...  
Aug 27, 2015 -  
Principles of Anatomy  
*Page 21/81*

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and Physiology,

Chapter 14, The Brain  
and Cranial Nerves.

See more ideas about

Cranial nerves,

Anatomy and

physiology,

Physiology.

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Massage Therapy ...

Chapter 14: The Brain

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The cerebrum is the largest part of the brain. This is the center for sensory perception, memory, judgment, and voluntary motor actions.

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Nerves images ...

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Brain Function of the  
Medulla Oblongata,  
Pons, Mid-Brain,  
Thalamus Chapter 14.

Brain Function ...

Cranial Nerves. Motor  
Control as a Higher  
Brain Function ...

motor roles □ eye  
movement, facial  
expressions, chewing,  
swallowing ... C14\_3\_  
brain\_stem\_hypoth\_c  
erebrum\_cerebellum\_



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chapter 14 brain  
control of movement -  
Free Related PDF ...  
Nov 11, 2016 - This  
chapter discusses  
both the anatomy and  
physiology of the  
brain. Each part of the  
brain has a different  
function in order to  
effectively receive,

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Brain And, process, and respond to all signals. This chapter also discusses the different cranial nerves, which are the brains way of communicating with the rest of the body for both sensory and motor information. .

---

Chapter 14: The Brain

*Page 26/81*

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and Cranial Nerves |  
30+ ideas ...  
Chapter 14: The  
Brain. Chapter 14:

The Brain. --largest organ in the body at almost 3 lbs --brain functions in sensations, memory, emotions, decision making, behavior --part of CNS contained in cranial cavity --control center

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Cranial Nerves  
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for many of body's  
functions --much like  
a complex computer  
but more --Parts of  
brain a. brainstem b.  
cerebellum c.  
diencephalon d.  
cerebrum

--Developmental

Anatomy of the NS

\*begins in 3rd week a.

ectoderm forms

thickening (NEURAL

PLATE) b. plate folds

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Brain And ...  
Cranial Nerves  
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The few reported controlled studies show that bilateral stimulation of the globus pallidus interna (GPi) is a safe and effective long-term treatment for hyperkinetic disorders. However,

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the recently published data on deep brain stimulation (DBS) applied to different targets or patients (especially those with secondary dystonia) are mainly uncontrolled case reports, precluding a clear determination of its efficacy, and providing little guidance as to the

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choice of a "good" target in a "good" patient. This chapter reviews the literature on DBS in primary dystonia, paying particular attention to the risk:benefit ratio in focal and segmental dystonias (cervical dystonia, cranial dystonia) and to the predictive factors for a good outcome. The

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### Chapter also

highlights recent data on the marked benefits of the

technique in myoclonus dystonia (in which pallidal, as opposed to thalamic, stimulation is more effective) and in tardive dystonia□dyskinesia.

Although, the decision to treat appears



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## Chapter 14 The Brain And Cranial Nerves

### Lecture Outline

relatively straightforward in patients with primary dystonia,

myoclonus-dystonia, and tardive dystonia who have a normal findings on magnetic resonance imaging and normal cognitive function, there are still no reliable tools to help predict the timescale of

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postoperative benefit.

This chapter provides a comprehensive analysis of the use of the treatment in various types of secondary dystonia, with little to moderate benefit in most cases, based on single cases or small series.

Beyond the reduction in the severity of dystonia, the global

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motor and functional outcome is difficult to determine owing to the paucity of adequate evaluation tools. Because of the large interpatient variability, different targets may be effective depending on the symptoms in each individual.

The brain ... There is

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no other part of the human anatomy that is so intriguing. How does it develop and function and why does it sometimes, tragically, degenerate? The answers are complex. In *Discovering the Brain*, science writer Sandra Ackerman cuts through the complexity to bring

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this vital topic to the public. The 1990s were declared the "Decade of the Brain"

by former President Bush, and the neuroscience community responded with a host of new investigations and conferences.

Discovering the Brain is based on the Institute of Medicine

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conference, Decade of the Brain: Frontiers in Neuroscience and Brain Research.

Discovering the Brain is a "field guide" to the brain--an easy-to-read discussion of the brain's physical structure and where functions such as language and music appreciation lie.

Ackerman examines

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Cranial Nerves  
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How electrical and chemical signals are conveyed in the brain. The mechanisms by which we see, hear, think, and pay attention--and how a "gut feeling" actually originates in the brain. Learning and memory retention, including parallels to computer memory and what they might tell us

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Brain And  
about our own mental  
capacity.

Development of the  
Cranial Nerves  
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brain throughout the  
life span, with a look  
at the aging brain.

Ackerman provides  
an enlightening  
chapter on the  
connection between  
the brain's physical  
condition and various  
mental disorders and  
notes what progress



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Brain: How  
Cranial Nerves  
Lecture Outline

can realistically be made toward the prevention and treatment of stroke and other ailments.

Finally, she explores the potential for major advances during the "Decade of the Brain," with a look at medical imaging techniques--what various technologies can and cannot tell

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us--and how the public and private sectors can contribute to continued advances in neuroscience. This highly readable volume will provide the public and policymakers--and many scientists as well--with a helpful guide to understanding the

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many discoveries that  
are sure to be  
announced  
throughout the  
"Decade of the Brain."

Functional and  
Clinical  
Neuroanatomy: A  
Guide for Health Care  
Professionals is a  
comprehensive, yet  
easy-to read,  
introduction to

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neuroanatomy that covers the structures and functions of the central, peripheral

and autonomic nervous systems. The book also focuses on the clinical presentation of disease processes involving specific structures. It is the first review of clinical neuroanatomy that is

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written specifically for nurses, physician assistants, nurse practitioners, medical students and medical assistants who work in the field of neurology. It will also be an invaluable resource for graduate and postgraduate students in neuroscience. With 22 chapters, including

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two that provide complete neurological examinations and diagnostic

evaluations, this book is an ideal resource for health care professionals across a wide variety of disciplines. Written specifically for "mid-level" providers in the field of neurology Provides an up-to-

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date review of clinical neuroanatomy based on the latest guidelines Provides a logical, step-by-step introduction to neuroanatomy Offers hundreds of full-color figures to illustrate important concepts Highlights key subjects in "Focus On" boxes Includes Section Reviews at

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An understanding of the nervous system at virtually any level of analysis requires an understanding of its basic building block, the neuron. The third edition of From Molecules to Networks provides the solid foundation of the



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morphological,  
biochemical, and  
biophysical properties  
of nerve cells. In  
keeping with previous  
editions, the unique  
content focus on  
cellular and molecular  
neurobiology and  
related computational  
neuroscience is  
maintained and  
enhanced. All  
chapters have been

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thoroughly revised for this third edition to reflect the significant advances of the past five years. The new edition expands on the network aspects of cellular neurobiology by adding new coverage of specific research methods (e.g., patch-clamp electrophysiology,

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including applications for ion channel function and transmitter release; ligand binding; structural methods such as x-ray crystallography).

Written and edited by leading experts in the field, the third edition completely and comprehensively updates all chapters

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of this unique  
textbook and insures  
that all references to  
primary research  
represent the latest  
results. The first  
treatment of cellular  
and molecular  
neuroscience that  
includes an  
introduction to  
mathematical  
modeling and  
simulation

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approaches 80%  
updated and new  
content New Chapter  
on "Biophysics of  
Voltage-Gated Ion  
Channels" New  
Chapter on "Synaptic  
Plasticity" Includes a  
chapter on the  
Neurobiology of  
Disease Highly  
referenced,  
comprehensive and  
quantitative Full color,

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professional graphics  
throughout All  
graphics are available  
in electronic version  
for teaching purposes

Neuroscience is, by  
definition, a  
multidisciplinary field:  
some scientists study  
genes and proteins at  
the molecular level  
while others study  
neural circuitry using

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electrophysiology and  
high-resolution optics.

A single topic can be  
studied using

techniques from  
genetics, imaging,  
biochemistry, or  
electrophysiology.

Therefore, it can be  
daunting for young  
scientists or anyone  
new to neuroscience  
to learn how to read  
the primary literature

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and develop their own experiments. This volume addresses that gap, gathering multidisciplinary knowledge and providing tools for understanding the neuroscience techniques that are essential to the field, and allowing the reader to design experiments in a



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variety of  
neuroscience  
disciplines. Written to  
provide a "hands-on"  
approach for graduate  
students, postdocs, or  
anyone new to the  
neurosciences  
Techniques within  
one field are  
compared, allowing  
readers to select the  
best techniques for  
their own work

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Includes key articles,  
books, and protocols  
for additional detailed  
study Data analysis

boxes in each chapter  
help with data

interpretation and

offer guidelines on

how best to represent

results Walk-through

boxes guide readers

step-by-step through

experiments

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This volume of Progress in Brain Research provides a synthetic source of information about state-of-the-art research that has important implications for the evolution of the brain and cognition in primates, including humans. This topic requires input from a variety of fields that

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are developing at an unprecedented pace: genetics, developmental neurobiology, comparative and functional neuroanatomy (at gross and microanatomical levels), quantitative neurobiology related to scaling factors that constrain brain

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organization and  
evolution, primate  
palaeontology  
(including

paleoneurology),  
paleo-anthropology,  
comparative  
psychology, and  
behavioural  
evolutionary biology.  
Written by internation  
ally-renowned  
scientists, this timely  
volume will be of wide

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interest to students, scholars, science journalists, and a variety of experts who are interested in keeping track of the discoveries that are rapidly emerging about the evolution of the brain and cognition. Leading authors review the state-of-the-art in their field of investigation

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and provide their views and perspectives for future research Chapters are extensively referenced to provide readers with a comprehensive list of resources on the topics covered All chapters include comprehensive background information and are

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written in a clear form  
that is also accessible  
to the non-specialist

## Lecture Outline

Traumatic brain injury (TBI) remains a significant source of death and permanent disability, contributing to nearly one-third of all injury related deaths in the United States and exacting a profound personal



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and economic toll.

Despite the increased resources that have recently been brought to bear to improve our understanding of TBI, the development of new diagnostic and therapeutic approaches has been disappointingly slow.

Translational

Research in

Traumatic Brain Injury

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attempts to integrate expertise from across specialties to address knowledge gaps in the field of TBI. Its chapters cover a wide scope of TBI research in five broad areas:

- Epidemiology
- Pathophysiology
- Diagnosis Current treatment strategies and sequelae
- Future therapies
- Specific

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topics discussed

include the societal  
impact of TBI in both  
the civilian and

military populations,  
neurobiology and  
molecular

mechanisms of  
axonal and neuronal  
injury, biomarkers of  
traumatic brain injury  
and their relationship  
to pathology,  
neuroplasticity after

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TBI, neuroprotective and neurorestorative therapy, advanced neuroimaging of mild TBI, neurocognitive and psychiatric symptoms following mild TBI, sports-related TBI, epilepsy and PTSD following TBI, and more. The book integrates the perspectives of experts across

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disciplines to assist in the translation of new ideas to clinical practice and ultimately to improve the care of the brain injured patient.

Cerebrospinal Fluid in Neurologic Disorders, Volume 146 provides a brief overview on the current use of CSF in clinical

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routine, the  
physiology of CSF,  
and its usefulness  
and potential as a  
biomarker. The  
second part  
addresses the main  
purpose of the  
volume, describing  
CSF from a research  
perspective in context  
with the most  
important diagnostic  
entities in neurology.

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The book's authors provide insight into the current understanding of CSF changes in these various conditions and what it tells us about the nature of neurological diseases. Furthermore, methodological aspects are discussed, as are shortcomings that

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### Brain And

need to be addressed. Finally, the book provides an outlook for potential directions that can be explored to improve the various aspects of CSF research with the ultimate goal of being incorporated in clinical practice. Provides a brief overview on the current use of CSF in clinical routine, the



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physiology of CSF,  
and its usefulness  
and potential as a  
biomarker Addresses  
relevant research in  
context with the most  
important diagnostic  
entities in neurology  
Edited by leading  
authors in CSF  
research from around  
the globe, presenting  
the broadest, most  
expert coverage

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Human anatomy,  
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Physiology Chapter 1.

- An introduction to the human body Chapter 2. The chemical level of organisation Chapter 3. The cellular level of organisation Chapter 4. The tissue level of organisation Chapter 5. The integumentary

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system Chapter 6.  
The skeletal system:  
bone tissue Chapter  
7. The skeletal  
system: the axial  
skeleton Chapter 8.  
The skeletal system:  
the appendicular  
skeleton Chapter 9.  
Joints Chapter 10.  
Muscular tissue  
Chapter 11. The  
muscular system  
Chapter 12. Nervous

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tissue Chapter 13.

The spinal cord and  
spinal nerves Chapter

14. The brain and  
cranial nerves

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autonomic nervous  
system Chapter 16.

Sensory, motor, and  
integrative systems

Chapter 17. The  
special senses

Chapter 18. The  
endocrine system

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system: the blood

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cardiovascular  
system: the heart

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cardiovascular  
system: blood vessels  
and haemodynamics

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lymphatic system and  
immunity Chapter 23.

The respiratory

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The digestive system

Chapter 25.

Metabolism and

nutrition Chapter 26.

The urinary system

Chapter 27. Fluid,

electrolyte, and acid -

base homeostasis

Chapter 28. The

reproductive systems

Chapter 29.

Development and

inheritance.

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Principles of Anatomy  
and Physiology has  
been the market

leading text through  
many editions due to  
its solid scientific  
presentation of the  
principles of the  
human structure and  
function. Equally  
important has been  
the pioneering and  
continually evolving

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efforts of the authors to develop an outstanding illustration program and innovative pedagogical features that promote understanding. The product of years of teaching experience, this text provides a superb balance between anatomy and physiology while



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emphasizing  
correlation between  
normal physiology  
and pathophysiology,  
normal anatomy and  
pathology, and  
homeostasis and  
homeostatic  
imbalances.

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