

[The Certified Pediatric Technician @Program Module 1 Anatomy and Physiology](#)

THE CENTRAL NERVOUS SYSTEM
THE CENTRAL NERVOUS SYSTEM
THE DIRECT LINK; THE NERVOUS AND SPINAL SYSTEMS
Central Nervous System: Neurological System Connection
Central Nervous System: Neurologic System Connection
FUNCTIONS OF THE SPINAL CORD
The Brain Stem and Cerebellum
Medulla oblongata
Midbrain
MUSCULAR/SKELETAL SYSTEM
The Structure of the muscle tissue:
Muscles of Respirations
SKELETAL SYSTEM
Classification of Bones
Differences between the male and the female pelvis
SENSORY SYSTEM - INTEGUMENTARY SYSTEM
Dendrites
Pathway to the brain
Cutaneous Senses
Pain: two types Somatic and Visceral.
The Eye
Ears:
Conduction, Nerve, and Central Deafness
THE RESPIRATORY SYSTEM
External Phase
Internal Phase
Respiratory membrane:
Types of breathing:
Hypoxia
The Relationship Between the Cardiac and Respiratory System

CARDIOVASCULAR SYSTEM
The structural features of the heart
Heart Disease
The Chambers:
The Ventricles
Conduction System of the Heart
Veins of the head and neck
Ejection Fraction
Influencing factors that effect heart rate
Circulation of the Blood
Arterial, capillary and venous pressures
Abnormal Heart conditions
LYMPH—IMMUNE SYSTEM.
Lymph—Immune System
Lymphatic vessels and organs
Spleen function
GASTRO-INTESTINAL SYSTEM
Fat-soluble vitamins such as A-D-E and K
Components of the Digestion System
Internal Organs of the Abdomen:
Accessory organs
THE URINARY SYSTEM [G/U OR RENAL SYSTEM]
Components of the Urinary system
The Composition of Urine
Drug related excretion in urine
THE ENDOCRINE SYSTEM
Hormones
Glands of Endocrine System
Deficiencies noted by the problems associated with the hypothalamus
Electrolytes and Body Fluids
THE REPRODUCTIVE SYSTEM
The Miracle of Life!
The Male Reproductive System

Female Reproductive System
Puberty
Process of Reproduction

[The Certified Pediatric Technician @Program Module 2: Maternal Care; The Journey of Life](#)
THE DOULA CONCEPT
PROMOTING WELLNESS
NUTRITION AND SAFE FOOD MATTERS
SOCIO-ECONOMIC CONDITIONS
Effects of Prenatal Alcohol on the Fetus may be.
Smoking During Pregnancy.
The Influence of Narcotics & Drugs
BIRTH DEFECTS.
THE UNEXPECTED COMPLICATIONS
CONDITIONS- ABNORMALITIES
INFECTIONS AND TYPES OF PREGNANCIES
HIGH RISK.
Common Birth Defects that are neonatal death related are
Stillbirth
Death Of A Child
GRIEVING: A NATURAL WAY OF HEALING
LOOSING A CHILD
Grieving: A Process of Living.
Phases of Grief
Accepting How Others Grieve
PREGNANCY: MEDICAL CONDITIONS AFFECTING PREGNANCY
Diabetes in Pregnancy.
SEXUALLY TRANSMITTED DISEASES IN PREGNANCY
EDUCATING THE PEDIATRIC TECHNICIAN

ON ILLNESSES
AFFECTING
NEWBORNS
PSYCHOLOGICAL MOOD
SWINGS:
Benefits.
Risk factor
CONCEPTION AND PRE-
NATAL DEVELOPMENT
Normal Pregnancy Labor
and Deliver
The Influence on other
Body Systems
Influences of Prenatal care
MANAGEMENT OF
NORMAL LABOR
EXACTLY
THE THREE STAGES OF
LABOR
Pain management
Birthing Balls
Mal-presentation:
Adolescent Pregnancy, A
Case Study
ACADEMIC TEACHING
STRATEGIES IN AN
EDUCATIONAL SETTING
THREE GENERATIONAL
LIVING
Mealtimes

[The Certified Pediatric
Technician ®
Module 3: Growth &
Development of the
Healthy Child](#)

Growth and Development
Of the Healthy Child
Stages and Milestones Of
Normal Growth and
Development
What are the stages of
growth and development?
Factors And Influences
That Will Determine
Growth And Development
What are the differences
between self worth, self
esteem, and self respect?

Physical Characteristics of
Growth and Development
Developing A Brain
Mental Development and
Motor Development
Theories Affecting
Development:
Cognitive Development
includes the following:
SECURITY and TRUST....
The “ Only Child”
Syndrome:
PLAY STIMULATION
ADOLESCENT
Peer group importance
Biographies, of famous
people/ pen pals
Psychosexual
Development.
ID, EGO,< SUPER-EGO
Emotional Development.
Differences of
development in the gender
Hospitalization and its’
effects on growth and
development
The Importance of Play
The Importance of Play
Cognitive Development
and Play:
Developmental
milestones:
Erickson’ Theory of
Development
Observing and Assessing
Infancy through
Adolescence
Assessing the newborn
Newborn assessment
Physiologic Influences
Temperature, Pulse and
Respirations
Nutrition and Fluids
Key Recommendations for
the General Population
ADEQUATE NUTRIENTS
WITHIN CALORIE NEEDS
WEIGHT MANAGEMENT
PHYSICAL ACTIVITY
FOOD GROUPS TO
ENCOURAGE
The First Years
NUTRITION AND
FEEDING
Childhood Illness
Influence:

Illness in childhood
Normal infant
presentation:
Failure to Thrive:
Toddlers and Bed Time
Motor development
Psychological
development:
Discipline And Temper
Tantrums
APPROPRIATE
GUIDANCE
DISCIPLINE
Pre-school
School Age
Preteen to Adolescence
Gross and Fine motor
development
The middle child, and
adolescence
Pre-Teen
Childhood Diseases
Immunizations
COMMON CHILDHOOD
ILLNESS
COMMON COLDS/FLU
RUBELLA: (German
Measles)
MEASLES: (RUBELLA
MUMPS: (EPIDEMIC
PAROTITIS)
CHICKEN POX:
(VARICELLA
FIFTH DISEASE: “
SLAPPED CHEEK
DISEASE
WHAT IS FIFTH DISEASE
IS IT CONTAGIOUS AND
HOW DO I CATCH IT
CAN THIS INFECTION
HARM THE FETUS?
IS THERE A TEST FOR
FIFTH DISEASE
IS THERE A TREATMENT
FOR FIFTH DISEASE
What are the
immunizations and when
should they be given
Introduction to First Aid
EMERGENCY
MEASURES/FIRST AID:
Assessing for pain
CPR/ FIRST AID
ACCIDENTS:
Trauma: TRAUMAS
REQUIRE IMMEDIATE

PROFESSIONAL
TREATMENT
WARNING SIGNS AND
TRAUMAS AND
TREATMENTS:
"UNIVERSAL ANTIDOTE"

[The Certified Pediatric
Technician @Program
Module 4- The Special
Needs Child](#)

Because of the length of
this program, the list below
has been modified.

INTRODUCTION: THE
SPECIAL NEEDS CHILD
COMMUNICATION AND
LIFE LESSONS FOR THE
VULNERABLE CHILD
MENDING CHILDREN'S
BROKEN HEARTS A
GUIDE FOR PARENTS
AND TEACHERS
CHILDREN WITH
BROKEN HEARTS
Autism And Gentle
Teaching
What About Drugs?
COMMUNICATING WITH
A PHYSICALLY AND
MENTALLY
CHALLENGED
THE PHYSICAL
DIFFERENCES
BETWEEN CHILDREN
AND ADULTS
Genetics
Mental Retardation and
Psychiatric Disturbances
Neurofibromatosis
What is NF1
Lesch-Nyhan
NERVOUS SYSTEM
Alterations
HYDROCEPHALUS
How does the patient
function?
CEREBRAL PALSY- CP
Normal swallowing:
Sign of hypotonia
Your Interventions Should
Include

Do all kids with brain
damage have CP?
How is CP Classified?
ASSISTIVE DEVICES
HIGH MUSCLE TONE
Assisting the Child with
High Muscle Tone
LOW MUSCLE TONE
EQUIPMENT TO HELP
KEEP MUSCLES
FLEXIBLE
TRAUMATIC BRAIN
INJURY—
NEUROLOGICALLY
IMPAIRED
INFANTILE AUTISM:
Multisystem
Developmental Disorder
(MSDD)
RESPIRATORY SYSTEM
Alterations
RESPIRATORY REVIEW
BRONCHOPULMONARY
DYSPLASIA
CIRCULATORY SYSTEM
Alterations
CARDIOVASCULAR
REVIEW
DIGESTIVE SYSTEM.
Components
Metabolism
Alterations
GASTROINTESTINAL
REVIEW:
ANATOMY AND
PHYSIOLOGY
Alterations
URINARY REVIEW
ENDOCRINE SYSTEM
Components-Glands
Alterations
ENDOCRINE REVIEW
JUVENILE DIABETICS
Dwarfism
Diastrophic Dysplasia
INTERGUMENTARY
SYSTEM
Components
Alterations
VITAMIN DEFICIENCIES
THE IMMUNE SYSTEMS
Alterations
THE LYMPHATIC
REVIEW
Life threatening conditions:

REPRODUCTIVE
SYSTEM
Function
Parts
Alterations
REPRODUCTIVE
REVIEW
Internal Anatomy &
Physiology:
Reproductive disorders in
females
MUSCULAR-SKELETAL
SYSTEM
Composition
Alterations
MUSCULAR-SKELETAL
REVIEW
THE DOS AND DON'TS
OF CAST CARE
CHILDREN WITH
PROGRESSIVE
DISEASES:
What is the Hospice
Concept?
ATTENTION TO DAILY
LIVING
ORAL HEALTH
Compromised Immune
Systems effects:
Presentation
DENTAL CARE FOR
CHILD IN A
WHEELCHAIR: (IN A
DENTIST OFFICE)
Allergies
Chill or exposure to cold
Care of the skin:
Preventive Care
Decubitus Care
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SPECIAL
CONSIDERATIONS FOR
POSITIONING A CHILD:
SPECIAL DIETS AND
IMPORTANT FACTS
Gluten Free Diet
Diabetic Nutrition
Cardiac Diet—Low Salt
The Cholesterol Diet
Low Salt Diets
PKU-