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NUR103_05617:HEALTH ASSESSMENT (0)	0	
NUR103_99999:HEALTH ASSESSMENT (0)	0	
NUR103_99999:HEALTH ASSESSMENT (0)	0	
NUR201_99999:NURSING THROUGH THE LIFESPAN (0)	1	6/27/2008
NUR201_99999:NURSING THROUGH THE LIFESPAN (0)	0	
NUR202_05652:NURSING THROUGH THE LIFESPANII (0)	0	
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NUR202_05661:NURSING THROUGH THE LIFESPANII (0)	0	
NUR202_99999:NURSING THROUGH THE LIFESPANII (1)	3	10/29/2008
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NUR204_05668:ROLE TRANS FOR THE RN (0)	0	
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Nur 201 Pediatric Module  
Part 1  
(Tegrity Lecture )

*Prepared by  
Bernice Zeigler, RN, MSN*

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### Overview of Pediatric GI System

- Primary function is ingestion, digestion, absorption of nutrients essential for normal growth and maintenance of fluid & electrolyte balance and elimination of waste products.
- In comparison with the adult, the infant has a highly ineffective GI system because mechanical functions of digestion are immature at birth.

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- What data from the health history and physical assessment of a child can be suggestive of a GI alteration? (Text pg. 1391 – Box 33-2)
- Alison is a 12 month old who has been vomiting for the past 12 hours. Since waking at 6 AM she has "not held anything down." It is now 5:30 PM and Alison's mother is becoming concerned. She calls the primary care office and the nurse recommends that Alison be brought into the office for evaluation. On initial assessment, Alison is lethargic and very quiet. Her lips and skin are dry. She is crying at times, but does not produce tears. Her diaper is dry; her mother says that she has not needed to change her diaper since 7 AM. She weighs 9.5kg.

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Severe fluid loss (dehydration) is a serious threat to life in infants and young children and demands immediate attention. What is the rationale for this statement? (Text Ch 28)



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In evaluating the laboratory values of a child with dehydration, would you expect the following values to be normal (N), elevated (E) or decreased (D)?

1. \_\_\_ urine specific gravity
2. \_\_\_ urine volume
3. \_\_\_ serum sodium
4. \_\_\_ serum hematocrit and hemoglobin
5. \_\_\_ blood urea nitrogen (BUN)
6. \_\_\_ serum osmolality

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- Create and write an assessment narrative for a dehydrated toddler:
  - Neurological:
  - Cardiovascular:
  - Gastrointestinal:
  - Genitourinary:
  - Integumentary:
  - Musculoskeletal:

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## Calculation of Daily Fluid Requirements

- Calculate the maintenance fluid needs for a child who weighs 12 kg (Text pg. 1142, Table 28-1)
- A child is to receive 1100 cc's of D5 ½ NS intravenously over a 24 hour period. A microdrip infusion set is available for use. What should the rate of the infusion be?

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## Critical Thinking Exercise

- A young child with a moderate degree of dehydration has been admitted to the unit. The physician has ordered the child to be hydrated with D5 ¼ NS w/ 20meqKCL/L @ 30cc/hr.
  - What assessment data should you obtain prior to implementing this order?

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- What electrolyte disturbances are common with dehydration? Clinical Manifestations? (use at least 3)


- Provide laboratory results for each disturbance:


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### Critical Thinking

- The ABGs of a young child with moderate to severe dehydration will likely reveal
  - pH \_\_\_\_\_
  - PCO2 \_\_\_\_\_
  - HCO3 \_\_\_\_\_
- What clinical manifestations will this child likely demonstrate?

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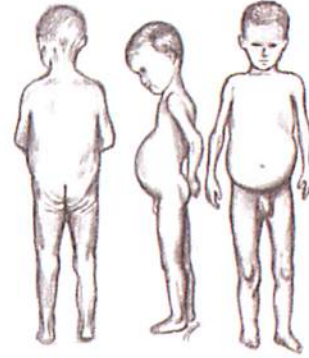
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■ Describe the appearance of a child who is malnourished:



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- Children with GI problems require a variety of specialized procedures to re-establish digestive function and maintain fluid & electrolyte balance.
- Review Text, Ch. 27
  - Care of a child receiving IV fluids
  - Care of a child with a NG tube
  - Care of a child with a Gastrostomy tube
  - Care of a child who requires Total Parenteral Nutrition (Hyperalimentation)
  - Care of a child who requires an enema
  - Care of a child with a colostomy

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- How would you measure an infant for placement of a nasogastric feeding tube?
  - What steps would you take to administer the feeding?
  
- When is Total Parenteral Nutrition (TPN) necessary?
  - What assessments of the child are necessary during the infusion?

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## Preparing a Child for Procedures



- It is important for the nurse to support & prepare child & parents before, during & after procedures.

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Complete this plan to prepare (psychologically) a newly admitted child for diagnostic procedures.

Assessment	Nursing Diagnosis	Expected Outcome	Interventions w/ Rationales	Evaluation
1 <sup>st</sup> admission for a 4 yr old male admitted w/ vomiting & diarrhea Crying and clinging to mother Infiltrated IV in (L) hand to be restarted			See Text, Pgs 1085 -	

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### Knowledge Needed

- Growth & Development
- Pediatric Interventions/procedures
- Assessment Skills
- Documentation
- Nursing Process/Prioritizing
- F/E concepts
- Acid-base balances
- Response to Illness/Hospitalization
- Psychosocial/Communication Skills

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