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SAULT COLLEGE NURSING ASSISTANT PROGRAMME**RNA 103****UNIT 6****FLUID & ELECTROLYTE BALANCE****September, 1993****OBJECTIVES****REFERENCES**

1. Define the following terms:

- Anion
- Cation
- Dehydration
- Diaphoresis
- Edema
- Electrolytes
- Extracellular Fluid
- Fontanel
- Interstitial Fluid
- Intracellular Fluid
- Intravascular Fluid
- pH
- Acid
- Base
- Fluid Balance
- Diffusion
- Filtration
- Osmosis
- Osmotic Pressure
- Millequivalent
- Atom

2. Define "total body fluid"

Kozier, Erb & Olivieri,
Chapter 40, p. 1035-1070,
1085-1086

Christensen, p. 524-538

3. Identify the distribution of
body fluid:

- a) intracellular
- b) extracellular
 - interstitial
 - intravascular

4. Identify the sources of fluid
intakeReview Biology "Movement
Through Membranes" under
"The Cell"Kozier, Erb & Olivieri,
p. 1036-1037

Christensen, p. 526-527

Kozier, Erb & Olivieri,
p. 1040-1041

Christensen, p. 526-527

OBJECTIVES**REFERENCES**

5. Identify the routes of fluid loss

Kozier, Erb & Olivieri,
p. 1041-1042

Define the term "electrolytes" and recognize the chemical symbols for common electrolytes.

Christensen, p. 526-527

7. Briefly discuss the effect of alteration in fluid balance on electrolytes

Kozier, Erb & Olivieri,
p. 1038-1039,
1045-1050

8. Define the term "acid-base balance"

Christensen, p. 528-533

9. Define the term "pH" and recognize how pH is controlled in the body.

Biology Notes

10. Identify responses through the lifespan which indicate adaptation in fluid and electrolyte balance

Christensen, p. 533-537

- a) thirst
- b) normal intake thru the lifespan
- c) normal output thru the lifespan
- d) weight changes
- e) distribution of fluid (edema in limbs or sacrum)
- f) skin condition - tissue turgor, moistness
- g) condition of mucous membrane and tongue
- h) nutritional status - appetite
- i) activity level/muscle tone
- j) thought processes/senses, alert, orientated, confused
- k) vital signs - temperature, blood pressure, respirations, pulse rate

Kozier, Erb & Olivieri,
p. 1050-1052

Christensen, p. 533

Kozier, Erb & Olivieri,
P- 1038,
1040-1044,
1053-1054

P- 1040-1041

P- 1040-1041,
1054-1055

P- 1038,
1041-1042
1054-1055

P- 1054

P- 1044

P- 1053, 1057

P- 1053, 1057

p. 1057

p. 1054

OBJECTIVES	REFERENCES
1) condition of eyes - shiny, dull, sunken, protruding	1057
m) fontanel (sunken vs. bulging)	
n) lab results: Serum electrolytes (K , Na Cl~) , hematocrit, urine pH, specific gravity	p. 1048-1050, 1056 p. 1057-1058 p. 1058
11. Identify and discuss stimuli that may influence fluid & electrolyte balance	Kozier, Erb & Olivieri, p. 1042-1043, 1053-1054, 1057
a) alterations in nutritional status	
- vomiting	
- inadequate or inability to drink excessive H~O	
- dieting	
- stomach suction	
- impaired metabolism	
b) general health status	
- malnutrition status	
- severe illness, surgery	
- pregnancy	
c) alteration in elimination	
- diarrhea	
- enemas	
d) percent of body fat	
e) alteration in skin integrity	
- burns	
- wounds	
- bleeding	
f) activity level	
g) fever, diaphorisis	
h) environment	
- external temperature & humidity	
i) medication	
j) stress	
k) motivation, to follow medical orders	

OBJECTIVES

REFERENCES

- 1) type of occupation
 - m) dependency on others
 - n) lifestyle
 - o) culture
 - p) availability of human and maternal resources
 - 12. Recognize nursing diagnosis in fluid and electrolyte balance
 - a) Adaptive fluid balance
 - b) Fluid volume deficit
 - c) Fluid volume excess
 - 13. Contribute to goal statements that promote adaptive fluid & electrolyte balance
 - 14. Identify and discuss nursing interventions used to promote or maintain adaptation in fluid and electrolytes.
 - a) measurement and recording
 - intake
 - output
 - weight changes
 - fluid distribution
 - vital signs
 - b) strategies to promote oral intake, push fluid
 - c) strategies to restrict oral intake
 - d) role related to IV therapy (differentiate between RN and RNA role in relation to the basic standards.)
 - J15. Evaluate based on goal statements and modify plan of care if necessary.
- Kozier, Erb & Olivieri,
p. 1060-1068,
1086
- Kozier, Erb & Olivieri,
p. 1061
- Kozier, Erb & Olivieri,
p. 1061,
1062-1070
- Kozier, Erb & Olivieri,
p. 1062
- Kozier, Erb & Olivieri,
p. 1063
- Kozier, Erb & Olivieri,
p. 1062-1070
- See "Standards of Practice", College of Nurses of Ontario
- Kozier, Erb & Olivieri,
p. 1085

OBJECTIVES

REFERENCES

THE ABOVE BELONGS TO HEALTH
SCIENCES