

BUN - 5-20
Creat - 0.8-1.3
USG - 1005-1.03

FND → hypotension, ↑ HR, thready pulse, pale skin, ↑ Resp tachypnoe, tea colored urine, Shock

→ Isotonic, hypotonic (intracellular fluid loss), DRS, Weight Urine

FVE → HTN, bounding pulse, distended neck veins, ↑ Resp

Crackles, pum edema, cool clammy skin, ↓ USG semi rec

→ ↓ fluids, diuretics, daily weights, Skin precautions, Fowlers

Solutions: 150 hyper hyper

0.9 NS ½ NS

D5 0.45 NS 3% NS

FLXpander ← Lactated Ringer ¼ NS

D5 LR 5% NS

DSW ½ NS ½ NS

D5 NS

D10W

Na⁺ 135-145 hyper

→ v/d, Lax, Steroids, antibiotics

CHF, DI

hypo

GI losses, SIADH, burns,
Renal failure, Diuretics

→ Thirst CNS ↓ ↑ interstitial fluid CNS - HA S/S Rapid pulse

Dry swollen tongue pum Edema

postural hypotension

muscle twitching

skeletal muscle weakness

↓ DTR muscle cramps

→ hypotonic fluids ↓ Na Neuro, tachy,

hypertonic fluids ↑ Na

↓ fluid, Osmotic diuretic

isotonic if dehydrated

K^+ 3.5 - 5 hyper

→ Renal failure, excessive use
of salt sub, met acidosis
Oliguria or anuria

→ Anxiety V Fib, ECG, cramps,
diarrhea, CNS changes, ↑ T waves,
↓ ST, Wide QRS, Flat P, ↑ P-R

→ Kex, ↓ K (mustard, orange
veg, potatoes, spinach, Raisins,
tomatoes, avocados) Insulin IV

hypo

→ dehydration, excessive
V/D, starvation, stress,
trauma, burns met alk
diabetic, gastric suctioning
→ weakness, fatigue, N/V
weak pulse, ↓ HR, flat T
wave, CNS

Oral K^+ KCl IV Potassium
Spirinolactone

Ca^{2+} 8.6 - 10 hyper

→ ↑ Ca & Vit D intake, kidney
disease thiazide diuretics
hyperparathyroidism malignancy
glucocorticoids Li^+ Adrenal ↓

→ thirst - hypoactive BS CNS ↓
↑ interstitial fluid cardiac changes
kidney stones, muscle weak

→ tachy, treat HTN, Neuro, Fluids
phosphorous, ↓ Ca intake, dialysis

hypo

→ ↓ Ca & Vit D intake
hypoparathyroidism, CRF
infection, pancreatitis, AIC
preg

→ tetany, Chvostek's
trousseau's, muscle twitching
seizures, EEG changes

→ ↑ Ca intake & Vit
D, Severe IV Ca glu
seizures, could develop
Fractures: osteoporosis

Mg 1.5-2.5 hyper
→ mg antacids Lax
mg sulfate Renal disease
Addisons disease
hypothyroidism

→ ↓ DTR ↓ CNS ↓ neuro
muscular function hypotension
prolonged PR wide QRS

→ citrate antacids
dialysis

hypo
→ AIC malabs
malnutrition
hyperaldosterone

→ ↑ DTR, CNS
hyper irritability
HTN, twitches
tetany, S2S ↑
T wave trashed
→ Mg sulfate

Caps &
them equiv.
Tutoring 1900
10
20
Sunday



ACTIVE LEARNING TEMPLATE:

System Disorder

STUDENT NAME:
DISORDER/DISEASE PROCESS

Sarah Saunders
Hypovolemic Shock

REVIEW MODULE CHAPTER 37

Alterations in Health
(Diagnosis)

Shock due to a
hypovolemic state

Pathophysiology Related
to Client Problem

Inadequate tissue
perfusion

Health Promotion and
Disease Prevention

Hydrate
Educate about signs
and symptoms of dehydration

ASSESSMENT

Risk Factors

- Excessive fluid loss / blood loss
- Use of diuretics

Expected Findings

- ↑ HR ↓ BP
- weak thready pulse
- ↓ urine output
- pale flushed skin
- SBS

Laboratory Tests

- hemorrhage ↓ Hgb; Hct
- dehydration ↑ Hgb; Hct

Diagnostic Procedures

- CT Scan
- blood in stools
- vitals
- EKG

SAFETY
CONSIDERATIONS

- monitor for
changes in
status
- use infection
prevention
protocol
- fall risk
precautions

PATIENT-CENTERED CARE

Nursing Care

- O₂
- daily weights
- IV fluids
- place pt flat w/ legs↑
- tele
- monitor urine output

Medications

- inotropic
agents
- Vasopressin
- 0.9% NS
or LR

Client Education

- proper hydration
- complications w/
nursing care

Therapeutic Procedures

- intubation
- chest tube
- surgical interventions

Interprofessional Care

- respiratory
therapy

Complications

- MODS
- DIC
- infection
- emboli from
fluid replacement