ASSESSMENT OF HYPERNATREMIA

CLINICALLY ASSESS
EXTRACELLULAR FLUID VOLUME STATE

Loss of H20 + Na

Urine Na (meq/L)

>20

Renal losses:
Diuretic
Glycosuria
Mannitol
Urea
Acute/Chronic renal failure

>10

Extrarenal losses:
Excess sweating
GI losses
Respiratory

HYPOTONIC SALINE

<10

Loss of H20

variable

Renal losses:
Diabetes
Insipidus
central nephrogenic

WATER REPLACEMENT

Gain H20 + Na (Na gain > H20)

Urine Na (mEq/L)

>20

Extrarenal losses:
Skin & resp insensible losses

DIURETICS AND WATER REPLACEMENT

Iatrogenic:
Hypertonic saline
NaHCO3
NaCl tabs
Mineralocorticoid excess
1° aldo
Cushing’s
Cong adrenal hyperplasia

Hypertonic hemodialysis/PD

Facts & Formulas, Rollings RC