

# Fluid and Electrolytes Cheat Sheet

|                                                                                                                                                                                                                                                                                                     |                                                           |   |                                                                                                                                                                                                   |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>HYPO</b> natremia      ↓Na      <135<br>"SALT LOSS"                                                                                                                                                                                                                                              |                                                           |   | <b>HYPO</b> kalemia      ↓K      <3.5<br>"slow and low /A SIC WALT"                                                                                                                               |  |  |
| <b>S/S</b><br>muscle spasm      weakness<br>urine loss (↓ output)      shallow respiration<br>↓ DTR      orthostatic hypotension<br>↑ bowel motility                                                                                                                                                |                                                           |   | <b>S/S</b><br>Alkalosis      irritability      lethargy<br>shallow respirations      ↓ breath sounds<br>↑ BP      lethal cardiac Δs      thread pulse<br>↓ bowel      constipation      confusion |  |  |
| <b>Causes</b><br>Na excretion (renal, NG suction, V/D, diuretics, sweating)      SIADH<br>↓ aldosterone      diabetes insipidus<br>Fluid overload or FVD      low intake                                                                                                                            |                                                           |   | <b>Causes</b><br>Drugs      anorexia      N      NPO      fluid loss<br>↑ H2O intake      cushings disease      ↑ aldosterone                                                                     |  |  |
| <b>HYPER</b> natremia      ↑Na      >145<br>"no FRIED food"/think dehydrated                                                                                                                                                                                                                        |                                                           |   | <b>HYPER</b> kalemia      ↑K      >5.0<br>"MURDER"                                                                                                                                                |  |  |
| <b>S/S</b><br>Fever, flushed skin      dry mouth/skin<br>Restless      agitated<br>↑ fluid retention, edema      confusion                                                                                                                                                                          |                                                           |   | <b>S/S</b><br>Muscle spasm/ cramps, twitching      weakness<br>Seizures      urine loss, ↓ output      ↓ BP<br>Shallow resp.      weak pulse      rhythms Δs                                      |  |  |
| <b>Causes</b><br>Hypercortisolism (cushings)      hyperventilation<br>Incr intake (oral/IV)      hypoaldosteronism<br>GI tube w/o adequate H2O intake<br>Hypertonic solutions      thirst impairment<br>Reduced excretion      corticosteroids<br>Infection, fever, sweating, D      loss of fluids |                                                           |   | <b>Causes</b><br>Cellular mvmt ICF → ECF      renal failure<br>Excess intake      addisons (adrenal insuff.)<br>Drugs (K-sparing diuretic, ace inhibitors, NSAIDs)                                |  |  |
| ↑P                                                                                                                                                                                                                                                                                                  | <b>HYPO</b> calcemia      ↓Ca      <8.5<br>"cramps"       | = | <b>HYPO</b> magnesemia      ↓Mg      <1.5<br>"twitching" (neuro excitability)                                                                                                                     |  |  |
| <b>S/S</b><br>+ trousseaus, chvosteks      tetany, spasm<br>seizures      ↑ DTR      confusion<br>arrhythmias                                                                                                                                                                                       |                                                           |   | <b>S/S</b><br>+ trousseaus, chvosteks      tetany<br>Tourdes de pointes      cardiac Δs      seizures<br>↑ DTR      ↑ BP      ↓ RR      ↓ bowel motility                                          |  |  |
| <b>Causes</b><br>Low PTH      celiac/crohns      low Vit. D<br>Acute pancreatitis      chronic kidney issues<br>Inadequate intake (alcohol, bulimia)      ↑ Phos.<br>Wound drainage (esp GI)      meds      ↓ mobility                                                                              |                                                           |   | <b>Causes</b> "LOW MAG"<br>Limited intake<br>Other electrolyte issues (hypoCalcemia, hypoKalemia)<br>Malabsorption      Wasting Mg<br>Glycemic issues (DKA, insulin)<br>Alcohol                   |  |  |
| ↓P                                                                                                                                                                                                                                                                                                  | <b>HYPER</b> calcemia      ↓Ca      >10<br>"body is weak" | = | <b>HYPER</b> magnesemia      ↑Mg      >2.5<br>"body system is lethargic"                                                                                                                          |  |  |
| <b>S/S</b><br>Muscle weakness, lethargy<br>EKG Δs      absent or ↓ DTR      confused<br>Abdominal distention d/t constipation<br>Ca deposits      kidney stone formation                                                                                                                            |                                                           |   | <b>S/S</b><br>Muscle weakness → resp. arrest<br>EKG Δs → cardiac arrest<br>Absent or ↓ DTR      N/V      ↓ BP                                                                                     |  |  |
| <b>Causes</b><br>hyperPTH      hyperthyroidism<br>↓ excretion (renal failure, thiazides)<br>bone cancer      ↑ Ca /vit D intake      lithium<br>glucocorticoids (suppress Ca)<br>addisons (adrenal insuff.)                                                                                         |                                                           |   | <b>Causes</b> <a href="http://www.nclexquiz.com">www.nclexquiz.com</a><br>Mg rich antacids/laxatives (Maalox, Mylanta)<br>Addisons (adrenal insuff)<br>Glomerular filtration insuff.              |  |  |

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