

|                       |                       |                        |                  |                                              |
|-----------------------|-----------------------|------------------------|------------------|----------------------------------------------|
| <b>B</b>              | <b>I</b>              | <b>N</b>               | <b>G</b>         | <b>O</b>                                     |
| Sodium                | Active Transport      | Active Transport       | Electrolytes     | Osmosis                                      |
| I&O                   | Concentrated Urine    | Semipermeable membrane | Intravascular    | Assessment if fluid & electrolyte imbalances |
| Nursing Implications  | Reducing fluid volume | FREE SPACE             | TPN              | Blood Substitutes                            |
| Infusion Pumps        | Hard Stools           | Hypervolemia           | Phlebitis        | Hypotonic                                    |
| Mental Status Changes | Potassium             | Ports                  | Non-electrolytes | Fluid & Chemical Balance                     |

|                        |                   |                        |                                              |               |
|------------------------|-------------------|------------------------|----------------------------------------------|---------------|
| <b>B</b>               | <b>I</b>          | <b>N</b>               | <b>G</b>                                     | <b>O</b>      |
| Reducing fluid volume  | Hard Stools       | Filters                | Infection                                    | Hypervolemia  |
| Facilitated Diffusion  | Blood transfusion | Circulatory Overload   | Infusion Pumps                               | I&O           |
| Hypovolemia            | Blood             | FREE SPACE             | Cations                                      | Osmosis       |
| Blood Substitutes      | Hypertonic        | Semipermeable membrane | Assessment if fluid & electrolyte imbalances | Third-Spacing |
| Restoring fluid volume | Anions            | ICF                    | Infiltration                                 | Crystalloids  |

|                         |                             |                                            |                             |               |
|-------------------------|-----------------------------|--------------------------------------------|-----------------------------|---------------|
| <b>B</b>                | <b>I</b>                    | <b>N</b>                                   | <b>G</b>                    | <b>O</b>      |
| Electrolytes            | Reducing<br>fluid<br>volume | Isotonic                                   | Third-Spacing               | Oxygen        |
| Nursing<br>Implications | Ions                        | Phlebitis                                  | Blood<br>Substitutes        | Complications |
| ICF                     | Crystalloids                | FREE<br>SPACE                              | Mental<br>Status<br>Changes | Infection     |
| Infiltration            | Anions                      | Fluid<br>replacement<br>or<br>restrictions | Active<br>Transport         | Hypovolemia   |
| Concentrated<br>Urine   | Sodium                      | Cations                                    | Water                       | Venipuncture  |