



## QRS Educational Services

*Over 30 years of providing quality, resourceful and supportive education*

### OnDemand Fluid, Electrolytes, and Arterial Blood Gases

#### **Agenda: approximately 4 hours to complete**

- **Fluids:** How equilibrium is maintained from a fluid perspective
  - A review of compartments, types of fluids, diffusion, and osmosis
  - Homeostatic mechanisms: Kidneys, ADH, RAAS etc
- **Electrolytes:** How equilibrium is maintained from an electrolyte perspective
  - Anions, Cations, Anion Gap
  - Normal Values and Causes of Abnormal Values
  - ECG Changes with electrolyte abnormality
- **Arterial Blood Gases:** How blood gas maintains equilibrium
  - Causes of acidosis and alkalosis
  - How to tell if there is no or partial or full compensation?
  - Practicing ABG analysis using a systematic approach
- **Case Study Jeopardy:** Putting it all together
  - Diabetic Ketoacidosis
  - Severe Hyperkalemia
  - Severe Nausea and Vomiting

**Cost:** \$75. Includes comprehensive course material to print, a certificate for 4-hours of Continuing Education and access for a full year.

**Registration: Option 1:** E-transfer to [darlene@qrseducation.com](mailto:darlene@qrseducation.com). Please add the course you wish to attend, as well as your email address and phone number in the comment section.

**Option 2:** Register and pay by credit card by choosing the 'OnDemand Courses' tab online at <https://www.qrs-education.com/collections/courses>

**About the Workshop:** This course is suited for anyone wanting to better understand homeostasis, fluid & electrolytes as well as arterial blood gases. There will be plenty of opportunity to practice and do case studies at your own pace.

**Certification:** Show case your competence in this subject matter by completing the Certification Test. Register and pay for this test after you have completed this OnDemand course. A passing grade of 84% is necessary to obtain certification.

**About the Presenter:** Darlene Hutton MSN, Owner of QRS Educational Services, has experience in a variety of settings: Staff Nurse in CCU, Emergency, ICU, PACU; Critical Care Educator; CCU Manager; and Research Manager.