Program Description and Objectives
Disorders of acid base, fluid, and electrolyte balance are common in seriously ill patients. These disorders can have a dramatic effect on clinical outcomes. Recently, we have developed a better understanding of their pathophysiology; the value and limitations of diagnostic studies; the type and severity of adverse effects; and the most effective methods to manage them. This program provides an up-to-date review of the diagnosis and management of important disorders of acid base, fluid, and electrolyte balance. It highlights the challenges that the practicing physician will often face, as well as emerging new concepts and areas of controversy.

Upon completion of this program, the participant will be able to: 1) apply knowledge of the methods for diagnosis and treatment of lactic acidosis, non-anion gap metabolic acidosis, the metabolic acidosis of chronic kidney disease, metabolic alkalosis, dysnatremias, dyskalemias, resistant edema, and disorders of magnesium, phosphorus, and calcium balance in dialysis patients to generate a systematic approach to the diagnosis and management of these disorders; 2) describe how each of these disorders affects patient morbidity and mortality; 3) discuss the value and limitations of vaptans in treatment of hyponatremia; 4) explain the most appropriate fluids to administer to patients with medical or surgical conditions; and 5) determine gaps in our knowledge and areas of controversy that require further basic and clinical research.

Target Audience
- Physicians
- PhDs and Other Researchers
- Medical and Other Trainees—Including medical students, residents, graduate students, post-docs, and fellows
- Nurses and Nurse Practitioners
- Pharmacists
- Physician Assistants
- Other Health Care Professionals
Diagnosis and Management of Disorders of Acid-Base, Fluid, and Electrolyte Balance: Challenging Issues for the Clinician

**SCHEDULE: Tuesday, October 31**

7:00 a.m. Registration and Continental Breakfast

7:55 a.m. Welcome and Introduction  
*Jeffrey Kraut, Biff Palmer*

8:00 a.m. Diagnosis and Treatment of Lactic Acidosis  
*Nicolaos Madias*

8:45 a.m. Questions and Answers  
*Nicolaos Madias*

9:00 a.m. Diagnosis and Treatment of Non-Anion Gap Metabolic Acidosis  
*Jeffrey Kraut*

9:45 a.m. Questions and Answers  
*Jeffrey Kraut*

10:00 a.m. Break

10:30 a.m. Illustrative Cases  
*Jeffrey Kraut, Nicolaos Madias*

11:30 a.m. Questions and Answers  
*Jeffrey Kraut, Nicolaos Madias*

12:00 p.m. Lunch (on your own)

1:00 p.m. Diagnosis and Treatment of the Metabolic Acidosis of CKD  
*Nimrit Goraya*

1:45 p.m. Questions and Answers  
*Nimrit Goraya*

2:00 p.m. Diagnosis and Treatment of Metabolic Alkalosis in the Intensive Care Unit  
*Michael Emmett*

2:45 p.m. Questions and Answers  
*Michael Emmett*

3:00 p.m. Break

3:30 p.m. Management of Resistant Edema  
*David Ellison*

4:15 p.m. Questions and Answers  
*David Ellison*

4:30 p.m. Illustrative Cases  
*David Ellison, Michael Emmett, Nimrit Goraya*

5:30 p.m. Questions and Answers  
*David Ellison, Michael Emmett, Nimrit Goraya*

6:00 p.m. Adjourn
SCHEDULE: Wednesday, November 1

7:30 a.m.  Continental Breakfast
8:00 a.m.  Treatment of Dysnatremias
           Horacio Adrogue
8:45 a.m.  Questions and Answers
           Horacio Adrogue
9:00 a.m.  Vaptans in Treatment of Hyponatremia
           Joseph Verbalis
9:45 a.m.  Questions and Answers
           Joseph Verbalis
10:00 a.m. Break
10:30 a.m. Illustrative Cases
           Horacio Adrogue, Joseph Verbalis
11:30 a.m. Questions and Answers
           Horacio Adrogue, Joseph Verbalis
12:00 p.m. Lunch (on your own)
1:00 p.m.  Treatment of Dyskalemias
           Ewout Hoorn
1:45 p.m.  Questions and Answers
           Ewout Hoorn
2:00 p.m.  Selection of Fluid Therapy in Patients with Medical or Surgical Conditions
           Biff Palmer
2:45 p.m.  Questions and Answers
           Biff Palmer
3:00 p.m.  Break
3:30 p.m.  Management of Disorders of Calcium, Phosphorus, and Parathyroid Hormone in Dialysis Patients
           David Bushinsky
4:15 p.m.  Questions and Answers
           David Bushinsky
4:30 p.m.  Illustrative Cases
           David Bushinsky, Ewout Hoorn, Biff Palmer
5:30 p.m.  Questions and Answers
           David Bushinsky, Ewout Hoorn, Biff Palmer
6:00 p.m.  Adjourn