

## **Poppy Gant**

### **Tips and pitfalls in DKA management: panel | *Poppy Gant & panel***

1. Discuss the challenges in diagnosing DKA when that are multiple or mixed acid-base disorders or euglycaemia due to SGLT2i
2. Discuss how to formulate a fluid therapy plan for a hypotensive DKA patient
3. Discuss the approach to supplementing potassium, phosphorus and magnesium
4. Discuss how to manage diabetic ketoacidosis patients with co-morbidities such as heart failure and chronic kidney disease
5. Discuss when to consider antimicrobial therapy in the emergency DKA patient
6. Discuss methods of administering insulin

### **Endothelial dysfunction in sepsis | *Poppy Gant***

1. Describe the endothelial changes that occur in sepsis
2. Describe the differences in endothelial dysfunction in different organs
3. Summarize the techniques and limitations of research techniques for studying the endothelium
4. Summarise the recent human and animal literature on endothelial dysfunction in sepsis.

### **Advanced Renal Physiology and relevance to fluid therapy decision making; acid base analysis diuretics usage | *Poppy Gant***

1. Review ion transport throughout the renal nephron: the proximal convoluted tubule, loop of Henle, distal convoluted tubule and collecting duct, including principal cells and type A, B and non- $\alpha$ , non- $\beta$  intercalated cells.
2. Describe the effects of anti-diuretic hormone (ADH) and aldosterone on the reabsorption of water
3. Review how type A and B intercalated cells contribute to acid base balance
4. Review the use, administration and complications of diuretics