

### **Antimicrobial use in the surgical patient**

The aim of this lecture is to provide insights on which surgical patients do or do not require antimicrobial therapy. As antimicrobial drug resistance is becoming an emerging threat to more and more patients, it is important to avoid unnecessary use of these drugs ensuring at the same time preventing the occurrence of surgical site infections as much as possible. On the one hand, risk factors involved in the development of surgical site infections will be discussed and on the other hand a patient-specific approach will be discussed to help decide if and which antimicrobial drugs are needed.

### **Hepatic encephalopathy**

The aim of this lecture is to provide insights on different metabolic processes that contribute to hepatic encephalopathy. Besides these contributing factors, also precipitating factors to hepatic encephalopathy will be discussed. Finally, the wide variety of clinical signs will be reviewed. Based on this lecture, the audience will understand the complexity of this disorder and, hence, the difficulty to treat it in some patients.