

## **2HDC12**

**TIME: 13:00 – 16:15**

**COURSE TITLE: NEUROMODULATION**

**CREDIT: 2 CREDITS**

### **1-RECOMMENDED FOR: NEUROLOGY RESIDENTS AND SPECIALISTS, ACADEMICS**

### **2-OBJECTIVE OF THE COURSE:**

To discuss the theoretical information about nervous system neuromodulation modalities performed through non-invasive transcranial magnetic stimulation (TMS) and transcranial direct current stimulation (TDCS), and practical application of cortical excitability tests and repetitive TMS on the TMS device.

### **3-WHAT WILL BE THE LEARNING OUTCOMES THAT THE PARTICIPANTS WILL ACQUIRE AT THE END OF THE COURSE?**

Non-invasive nervous system neuromodulation methods, cortical excitability tests and repetitive TMS applications.

### **4-PARTICIPANTS ARE EXPECTED TO: LISTEN, SHARE THEIR EXPERIENCES, PARTICIPATE ACTIVELY IN PRACTICES, GET ACTIVELY INVOLVED IN DISCUSSIONS**

### **5-COURSE PROGRAM**

#### **Moderator:**

Çağrı Mesut Temuçin (Hacettepe University Faculty of Medicine, Neurology Dpt.)

#### **Speakers and Topics:**

- Concept of Neuromodulation and Connectivity  
Burhanettin Uludağ  
(Ege University Faculty of Medicine, Neurology Dpt.)
- Neuromodulation Studies with Transcranial Electrical Stimulation  
Bülent Cengiz  
(Gazi University Faculty of Medicine, Neurology Dpt.)
- Transcranial Magnetic Stimulation Methods  
Çağrı Mesut Temuçin  
(Hacettepe University Faculty of Medicine, Neurology Dpt.)

#### **BREAK (15 Minutes)**

- Transcranial Magnetic Stimulation outside Motor Cortex  
Gökçem Yıldız Sarıkaya  
(Hacettepe University Faculty of Medicine, Neurology Dpt.)
- Repetitive Transcranial Magnetic Stimulation (Rtms): Modes of Action and Protocols  
Ayşegül Gündüz  
(İstanbul University Cerrahpaşa - Cerrahpaşa Faculty of Medicine, Neurology Dpt.)
- Practical Application: Basic Excitability Test with TMS  
Bülent Cengiz (Gazi University Faculty of Medicine, Neurology Dpt.)  
Çağrı Mesut Temuçin (Hacettepe University Faculty of Medicine, Neurology Dpt.)  
Gökçem Yıldız Sarıkaya (Hacettepe University Faculty of Medicine, Neurology Dpt.)  
Ayşegül Gündüz(İstanbul University Cerrahpaşa - Cerrahpaşa Faculty of Medicine, Neurology Dpt.)
- Discussion

