

# Advances in Transcranial Magnetic Stimulation

FEBRUARY 2023

PRESENTER:

**Deniz Doruk Camsari, MD**

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 Consulting Psychiatrist, Santa Barbara Neighborhood Clinics  
 Assistant Professor of Psychiatry and Research Collaborator, Mayo Clinic

This presentation will explore the recent developments in the field of neuromodulation with an emphasis on Transcranial Magnetic Stimulation (rTMS) and its clinical and research applications. FDA-cleared applications of TMS include treatment resistant depression, OCD, migraine and smoking cessation. Dr. Doruk Camsari will review the most recent data on the efficacy of TMS for these conditions. Accelerated and prolonged TMS, theta burst stimulation (TBS), and bilateral TMS are other promising applications of this methodology. Research findings, special considerations, applications in children and adolescents, contraindications and clinical pearls will be discussed.

LEARNING OBJECTIVES:

- Identify the six (6) FDA-cleared applications of repetitive Transcranial Magnetic Stimulation (rTMS)
- List the most common side effects associated with rTMS
- Differentiate the risks, side effects and other special considerations of rTMS

**DENIZ DORUK CAMSARI, MD**, obtained her medical degree from Baskent University in Turkey. She spent four years as a post-doctoral research fellow at the Neuromodulation Lab at Spaulding Rehabilitation Hospital at Harvard Medical School before completing her psychiatry residency at Mayo Clinic in 2020. Currently she works as a psychiatrist at Mindpath College Health in Isla Vista and as a consulting psychiatrist at the Santa Barbara Neighborhood Clinics. She holds an adjunct position as an Assistant Professor of Psychiatry and Research Collaborator at Mayo Clinic where she continues her research activities remotely. Dr. Doruk Camsari's research is focused on the use of quantitative electroencephalography (qEEG) and non-invasive brain stimulation techniques in identifying biomarkers in youth mood disorders and suicidality with a goal to develop target engagement markers for neuromodulatory treatments. Dr. Doruk Camsari has published more than 25 peer-reviewed articles, has given numerous national and international presentations, and has served as a review editor for *Frontiers in Psychiatry - Neuroimaging and Stimulation*.

Santa Barbara Cottage Hospital  
 Psychiatry and Addiction Medicine  
 Department invites you to virtually  
 attend its February 2023 presentation.

TUESDAY, FEBRUARY 28, 2023

Noon to 1:30 p.m.  
 No meals or breaks provided.

Please register at:  
[cottagehealth.org/psychgrandrounds](http://cottagehealth.org/psychgrandrounds)

After registering you will receive  
 a confirmation email containing  
 information about joining the training.

FREE COMMUNITY EVENT



## CAMFT / BRN CONTINUING EDUCATION CREDITS FOR COTTAGE HEALTH EMPLOYEES

Attendance for the full hour and Zoom registration is required to receive credit. CE credit is not offered for meals or breaks.

- **LMFTs, LCSWs, LPCCs and LEPs:** Course meets the qualifications for one hour of continuing education credit as required by the California Board of Behavioral Sciences. Santa Barbara Cottage Hospital is approved by the California Association of Marriage and Family Therapists to sponsor continuing education for LMFTs, LCSWs, LPCCs, and LEPs (provider # 57341) and Santa Barbara Cottage Hospital maintains responsibility for the program/course and its content.
- **Registered Nurses (RNs):** Course approved by the California Board of Registered Nursing, Provider #00252 for 1.0 contact hour.

**CERTIFICATES:** Cottage Health Employees will receive certificates in Compass Learning after completed evaluation is processed.

## CONTINUING EDUCATION CREDIT FOR PHYSICIANS AND PSYCHOLOGISTS

- **Physicians:** The Santa Barbara County Consortium for Continuing Medical Education is accredited by the California Medical Association (CMA) to provide continuing medical education for physicians.

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- **Psychologists:** Please contact Tamara Norton if you would like to receive a Certificate of Attendance for this event at [tnorton@sbch.org](mailto:tnorton@sbch.org) and 805-569-7245.

**GRIEVANCES:** Contact the Education and Nursing Professional Development Department at 805-569-7325.

**SPECIAL ACCOMMODATION:** If you are in need of special accommodation, contact the Education and Nursing Professional Development Department at 805-569-7325.

**DISCLOSURES:** The planners and speakers of this live internet activity have stated that they do not have any relationships with ineligible companies. This activity did not receive commercial support.

### PROGRAM COORDINATORS

Carole Reynolds Ingraham, LMFT  
Frances McKinney

### EDUCATION CONSULTANTS

Jennifer Granger Brown, MSN, RN  
Tamara Norton, MHS, CPCS

### TARGET AUDIENCE

Addiction Counselors  
Clinical Nurse Specialists  
Counselors  
Marriage & Family Therapists  
Nurse Practitioners  
Nurses  
Occupational Therapists  
Occupational Therapy Assistants  
Other Mental Health Professionals  
Pharmacists  
Physicians  
Psychologists  
Psychotherapists  
Social Workers

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