







TEACHING COURSE HEADACHE Neuroimaging in clinical practice

Gioacchino Tedeschi

President of Italian Society of Neurology (SIN) Full Professore of Neurology Neurology Clinic of Naples Department of Advanced Medical and Surgical Sciences University of Campania «Luigi Vanvitelli» Naples











VIRTUAL

OCTOBER 3-7, 2021

STREET STREET

OCULTA STALIANA

- Received speaker honoraria from Sanofi-Aventis, Merck Serono, Bayer Schering Pharma, Novartis, Biogen-Dompe^{*}AG, Allergan, Teva and Lilly
- Received funding for travel from Bayer Schering Pharma, Biogen-Dompe[^] AG, Merck Serono, Allergan, Novartis and Sanofi Aventis
- Serves as an associate editor of Neurological Sciences









STREET STREET

OCULTA STALIANA

Learning objective(s)

To Identify:

- patients suffering from primary/secondary headache by a clinical-based approach
- patients with "presumed" primary headache requiring neuroimaging investigation
- patients with "secondary headache" requiring neuroimaging investigation
- neuroimaging approach more appropriate for the diagnostic hypothesis
- advanced neuroimaging limitations in headache clinical practice







VIRTUAL

OCTOBER 3-7, 2021

- Discriminate 'red flags' pointing to a secondary headache and requiring neuroimaging to detect subtending treatable causes and severe disease
- There is no necessity to do neuroimaging in patients with primary headaches who have a normal neurologic examination and no atypical features or red flags.
- Neuroimaging may be considered for "presumed" primary headache with unusual or atypical symptoms (e.g. prolonged or persistent duration, increasing frequency, severity, first or worst headache, coexistence of neurological features, late-life headache accompaniments, sidelocked headache, posttraumatic headache, etc)





References

VIRTUAL

OCTOBER 3-7, 2021

- Evans RW, Burch RC, Frishberg BM, Marmura MJ, Mechtler LL, Silberstein SD, Turner DP.
 Neuroimaging for Migraine: The American Headache Society Systematic Review and Evidence-Based Guideline. Headache. 2020 Feb;60(2):318-336.
- Jordan JE, Flanders AE. Headache and Neuroimaging: Why We Continue to Do It. AJNR Am J Neuroradiol. 2020 Jul;41(7):1149-1155.
- Micieli A, Kingston W. An Approach to Identifying Headache Patients That Require Neuroimaging. Front Public Health. 2019 Mar 15;7:52.
- Russo A, Silvestro M, Tessitore A, Tedeschi G. Functional Neuroimaging Biomarkers in Migraine: Diagnostic, Prognostic and Therapeutic Implications. Curr Med Chem. 2019;26(34):6236-6252.