

1. Record Nr.	UNINA9911015683203321
Autore	Dubljevic Veljko
Titolo	TMS and Neuroethics // edited by Veljko Dubljevi, Jonathan R. Young
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031924019 9783031924002
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (391 pages)
Collana	Advances in Neuroethics, , 2522-5685
Altri autori (Persone)	YoungJonathan R
Disciplina	616.8
Soggetti	Neurology Medical ethics Psychiatry Neurosciences Philosophy Medical Ethics Neuroscience
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. An Introduction to TMS and Neuroethics -- Part I. Historical and Philosophical Reflections regarding TMS -- 2. A History of Transcranial Magnetic Stimulation -- 3. Racial Disparities in rTMS Research Participation and Clinical Access in the U.S -- 4. Family and Caregiver Perspectives on TMS Treatment of Refractory Conditions: A Pilot Investigation -- 5. Transcranial Magnetic Stimulation and Cognitive Enhancement: Present State and Possibilities for the Near Future -- 6. Unravelling Ethical Complexities: Transcranial Magnetic Stimulation (TMS) in Non-clinical Settings and the Dilemmas of Neuroenhancement -- 7. TMS for social neuroscience: New applications and ethical issues -- 8. "Bridging Network Neuroscience and Neuroethics: Can TMS and tACS Solve the Creativity Crisis?" -- Part II. New directions and ethical issues in clinical TMS research -- 9. Subgrouping "Treatment Responders": Ethical Implications for Those Seeking Participation in TMS Treatment and/or Research -- 10. TMS for mood disorders – an ethical perspective -- 11. "The fewer pills the better": Attitudes towards Transcranial Magnetic Stimulation for Depressed Adolescents -- 12.

Transcranial Magnetic Stimulation in Older Adults -- 13. The Ethics of TMS in the Treatment of Suicidal Ideation -- 14. Transcranial Magnetic Stimulation for Substance Use Disorders: Ethical Considerations -- 15. Regulatory Perspectives on Transcranial Magnetic Stimulation.

Sommario/riassunto

As transcranial magnetic stimulation (TMS) continues to expand from a tool of neuroscience research into a growing array of clinical applications, it presents a number of open questions that both invite and complicate ethical evaluation. Empirically supported concerns remain regarding interactions between TMS and psychiatric medications or other interventions, the potential for adverse effects in stimulated brain regions, and whether modulation of brain activity—particularly via changes in oscillatory states—might affect aspects of personhood. This volume explores the ethical landscape surrounding TMS in both research and clinical settings. Prior neuroethics literature has largely focused on theoretical implications of neurostimulation technologies, including conceptual clarification (e.g., invasiveness) and normative questions regarding the alignment of these technologies with societal values. However, while some empirical work has captured perspectives from TMS patients, many key voices—such as those of family members, clinicians, and underrepresented communities—have remained absent from scholarly discussions. Spanning historical reflection, theoretical debate, empirical analysis, and clinical insight, this collection features contributions from scholars and practitioners working at the intersection of neuroethics, neuroscience, psychiatry, and biomedical engineering. Part I of the volume offers historical and theoretical reflections, including the origins and growth of TMS research, racial disparities in access and participation, caregiver perspectives, and emerging issues related to cognitive enhancement, non-clinical use, and applications in social neuroscience and creativity. Part II turns to new directions and ethical issues in clinical TMS research, addressing treatment subgrouping, adolescent and geriatric use, mood and substance use disorders, suicidality, and the evolving regulatory landscape. Together, these chapters provide an interdisciplinary examination of the ethical, clinical, and societal dimensions of TMS. Whether as an introduction to the neuroethics of brain stimulation or as a resource for neuroscientists, clinicians, engineers, and ethicists, this volume aims to foster greater understanding and dialogue around the responsible development and application of TMS.
