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Precision Medicine -- 14. The Ethics of Passive Data and Digital Phenotyping in Neurosurgery -- 15. Research Ethics: When Innovation is Clearly Research -- Part IV Innovation in Neurosurgery: Required Culture and Team Collaboration. 16. Innovation and Team Collaboration in Neurosurgery -- 17. Culture and Attitudes Supporting Ethical Innovation in Neurosurgery -- 18. Perspective: Future of Innovation in Neurosurgery.

Sommario/riassunto

This book covers all ethical aspects of introducing novel implants and procedures in neurosurgery in a structured way, addressing the current knowledge gap concerning ethical innovations in neurosurgery. Initially it explores the difficulties involved in defining when a procedure should be considered innovation, research, or care. To this end, it presents not only an overview of current literature, but also data from a recent survey among neurosurgeons in Europe. The book subsequently discusses the ethical issues related to innovation. These include: informed consent (what should a surgeon tell the patient and how should he/she do so), oversight (can any surgeon simply implant a novel spinal device?), the learning curve (when should a surgeon be allowed to perform a novel procedure?), vulnerable patients (how to innovate in the pediatric population or in an emergency setting), and conflicts of interest, as well as the ethics of paying for innovative treatments. In turn,the closing chapters focus on the evaluation of neurosurgical research and innovation. Are cultural changes necessary and how could innovation benefit from (international) collaborations? Given the range of topics addressed, the book offers neurosurgeons, residents, scientists, companies and hospital administrations a valuable guide to introducing novel implants and techniques in neurosurgery. .