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# Therapeutic rTMS in Neurology



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Thomas Platz  
Editor

# Therapeutic rTMS in Neurology

Principles, Evidence, and Practice  
Recommendations

 Springer

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## Preface

Therapeutic repetitive transcranial magnetic stimulation (rTMS) in clinical neurology is an emerging option to treat various neurological conditions. Many issues need to be resolved for each condition treated and protocols developed with optimized effectiveness taking individual subject characteristics into account. And yet, the clinical benefits that can be achieved are at times remarkable and favor the clinical application of rTMS therapy.

This book is a comprehensive reference on therapeutic rTMS that documents the current status in the field. While introductory chapters cover the neurophysiology of rTMS and present imaging information about its mechanisms of action, the main focus of this book is the clinical applications of rTMS that have been tested to date. These include treatment of paresis, aphasia, and visual neglect in stroke patients, therapy for motor impairment in Parkinson's disease, and applications for tinnitus and neuropathic pain. Based on the available clinical evidence (RCTs, meta-analyses, and systematic reviews), combined with the personal experience of experts in the field, a clinically oriented best evidence synthesis is provided for each therapeutic application, together with a clear description of rTMS algorithms that generate clinical benefits in the target domain.

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Thomas Platz



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