



EDITORIAL

Highlights of the XXIII World Congress on Parkinson's Disease and Related Disorders



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1. Introduction

It is our distinct pleasure to share this special supplement that highlights the most attended and regarded educational and scientific presentations during the recently concluded XXIII World Congress on Parkinson's Disease and Related Disorders in Lyon, France. For the first time, the International Association of Parkinsonism and Related Disorders (IAPRD) designed a Congress to provide a comprehensive *educational* program in movement disorders, primarily intended for young trainees and neurologists, other specialists and health professionals. Therefore, the Educational Congress program was developed to span the spectrum of movement disorders, from phenomenology and pathophysiology to current diagnosis and treatment of movement disorders, starting with 'the basics' and culminating with 'breakthroughs', delivered only by the world's experts in the field.

To reflect the educational format of the Congress, this supplement is a collection of critically-written and peer-reviewed **review articles**, divided into five main parts: 1) Revisiting How the Basal Ganglia Works; 2) The Evolution of our Approach to Parkinson Disease; 3) Distinguishing and Treating Other Parkinsonian Disorders; 4) Approach to Challenging Movement Disorders; and, 5) Advances in Tardive Dyskinesia.

The supplement starts with two review articles that attempts to untangle the basal ganglia neurophysiology and circuitry, and how it applies to therapy such as deep brain stimulation surgery. The second part discusses the most recent advances in Parkinson's disease (PD) including biomarkers, disease modification, emerging symptomatic treatments; along with practical topics such as common emergency situations, botulinum toxin indications, and treatment options for neuropsychiatric complications of PD. The third part is dedicated to other parkinsonian syndromes, with two practical review articles on the differential diagnosis of atypical parkinsonism and their unique clinical features; and two state of the art papers on functional imaging and advances in treatment of Parkinson-plus syndromes. Finally, the last two parts are dedicated

to the hyperkinetic disorders with several papers comprehensively reviewing: tremors in children, tics and stereotypies, Huntington's disease, ataxia, paroxysmal movements disorders, Wilson's disease, and tardive dyskinesias.

A recent epidemiological study has shown that the number of patients with PD has more than doubled over the last 16 years [1]. In addition, the pace of new discoveries in our understanding and treatment of various movement disorders has exponentially increased, with more people than ever before, from around the globe, finding ways to learn about all types of movement disorders [2]. We sincerely hope that upon reading this special supplement from the first to the last expertly-written article, we will have accomplished our dual mission of: a) capturing the didactic and educational nature of Congress, providing young clinicians with pearls in their approach to PD and other movements disorders; and, b) sharing the most recent advances in our field for all clinicians, whether still in training, recently practicing, or seasoned.

References

- [1] GBD, 2016 Parkinson's Disease Collaborators. Global, regional, and national burden of Parkinson's disease, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet Neurol.* (17) (2018) 939-953.
- [2] F. Brigo, R. Erro, Why do people google movement disorders? An infodemiological study of information seeking behaviors, *Neurol Sci.* 37 (5) (2017) 7881-7887.

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