

Special Interest Group

Rehabilitation for Movement Disorders

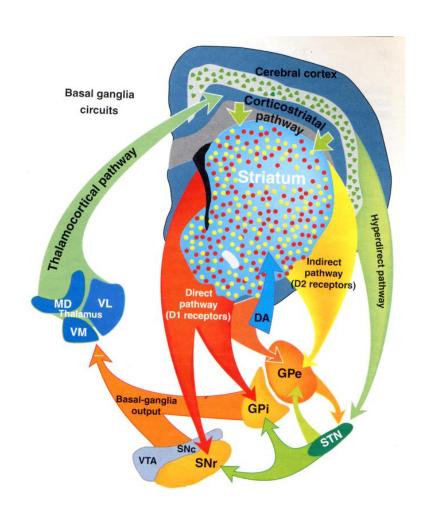
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Movement Disorders

- Heterogeneous group of syndromes sharing:
 - deficit of voluntary motor function and/or abnormal movement patterns
 - neurodegenerative (or symptomatic) origin
 - usually resulting from dysfunction of cortico-basal ganglia circuits
- Parkinsonism, Dystonia, Chorea, Tremor, Myoclonus





Rationale for rehabilitation in Movement Disorders

- No "causal" treatment is usually available
- Current (medical and/or surgical) treatments are symptomatic and may be quite effective for some types of movement disorders
- However, most conditions show a chronic course with progressive loss of treatment efficacy and appearance of non responsive symptoms
- Eventually mobility and postural problems severely reduce patients' autonomy in ADL and QoL



Epidemiology

Number of Parkinson's Disease patients in the 5 European and 10 World most densely populated countries

PD patients aged over 50:

4.1 - 4.6 milions in 2005

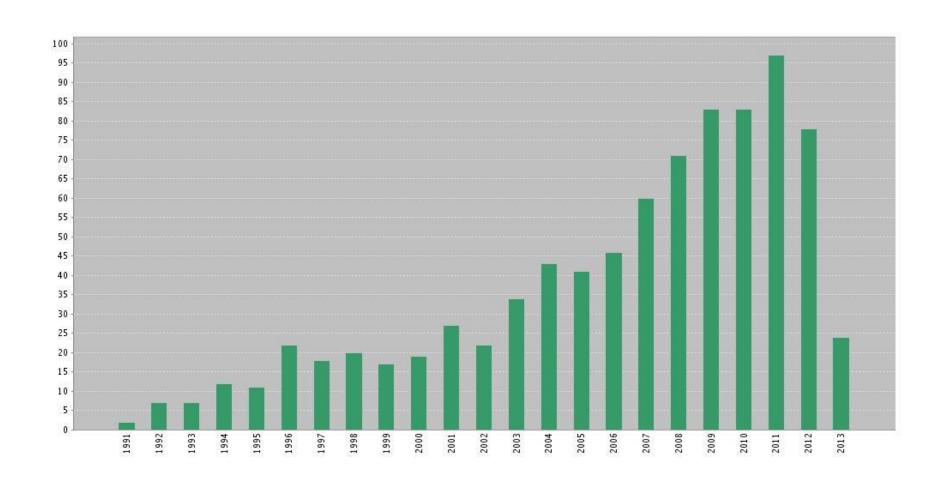
8.7 - 9.3 milioni in 2030

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Dorsey et al. 2007

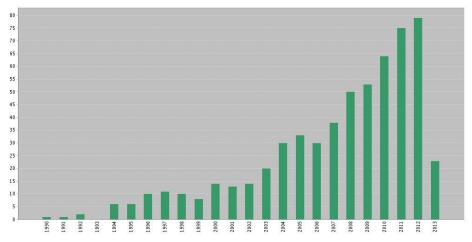


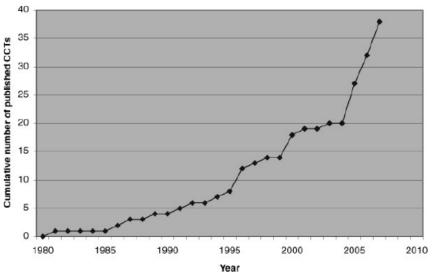
Results for publications by year Rehabilitation in MDs





Results for publications by year Rehabilitation in PD





Keus et al. 2009



 The SIG was proposed in 2007 and approved by the Management Committee in 2008

- First meeting: Brasilia (5th WFNR Congress) September, 2008
 - During the meeting the aim and the mission of the SIG were discussed and subsequently approved
- Second meeting: Wien (6th WFNR Congress) March 23, 2010
 - A specific symposium was held.



Mission Statement Aims

- to raise awareness on the relevance of rehabilitation for *Movement Disorders*
- to involve and integrate all the health-care professionals (medical doctors, therapists, etc.) interested in the field of *Movement Disorders* favouring integration and development of multi-disciplinary approaches
- to collect and disseminate up-to-date scientific information on Movement Disorders rehabilitation useful for WFNR members
- to stimulate the development of research protocols and guidelines on Movement Disorders rehabilitation
- to create the conditions for the WFNR-SIG on Movement Disorders rehabilitation to become a reference in the international scientific community
- to collaborate and overlap with other WFNR groups or other Scientific Societies in the field of *Movement Disorders*



 The structure of the SIG has remained informal, but there is the need for a more structured organisation and a higher visibility

 The SIG maintains a strategic value with a possible «competition» with other scientific societies operating in this field



Strategic significance of Rehabilitation for Movement Disorders

- Autonomic Neurorehabilitation
- Cognitive Neurorehabilitation
- Posture, Mobility and Falls
- Robotics
- Telerehabilitation



Istanbul 2014 Proposal

Symposium (or Teaching Course) on:

Gait Abnormalities in Movement Disorders

- Clinical Identification
- Pathophysiology
- Instrumental Evaluation
- Innovative Rehabilitation Approaches



Thanks

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