The National Parkinson Foundation (NPF) and Competence Network on Parkinson's disease (CNP) present the

International Symposium on REM Sleep Behavior Disorder (RBD)

In Marburg, Germany

Overview: There have been many recent developments in our understanding of REM sleep behavior disorder. Because of this, we are now positioned to begin explorations of therapies to treat RBD, considering goals of both managing symptoms and slowing the progression of the condition. This pressing question, as therapeutic development progresses toward the clinical stage, would benefit from a consensus of the researchers who focus on RBD on what they would consider evidence of efficacy. Therefore, the primary goal of this meeting is to arrive at a consensus on what endpoint to target in clinical trials of therapeutics for RBD.

Agenda

Friday 29 04 2011

17 00 **Arrival**

17 30 **Welcome address**
Professor Wolfgang Oertel, Philipps University, Marburg, Germany

18 00 **Update: What is new in RBD research in 2010**
A review of published articles.
Professor Geert Mayer, Hephata-Klinik, Schwalm-Treysa, Germany

19 00 Business meeting of the IRBD-SG

20 00 **Dinner**

Saturday 30 04 2011

9 00 **Assessment of Basic science, EMG activity**
Short oral presentations, total time 8 minutes

How to measure muscle activity in REM Sleep Behaviour disorder: neck muscle versus extremity muscle versus muscle in the face
Pierre-Herve Luppi, MD, Centre de Recherché en Neurosciences de Lyon, France

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9 00 *Assessment of Basic science, EMG activity (continued)*

Pontine and spinal control of REM sleep and REM atonia – how to asses it in EMG/EEG
Lu Jun, MD, PhD and Martina Krenzer, Beth Israel Deaconess Medical Center, Boston, USA

What is the best method to identify REM Sleep and REM Sleep behaviour atonia
Jerome Siegel, PhD and Yuan-Yang Lai, PhD, University of California, Los Angeles, USA

10 00 **Discussion of clinical science assessment of EMG activity**

Atonia index of REM sleep during polysomnography (PSG)
Professor Luigi Ferini-Strambi, University of Vita-Salute San Raffaele, Italy

Total time in in REM-sleep without muscle atonia
Professor Geert Mayer, Hephata-Klinik, Schwalm-Treysa, Germany

Number of 30s REM sleep epochs without muscle atonia
Professor Jaques Montplaisier, Université de Montréal, Canada

Sinbar approach
Alex Iranzo, MD, and Birgit Frauscher, MD, Universidad de Barcelona, Spain

11 00 **Break**

11 30 **The clinical trial methodology**

Which of the approaches is the best? Power, sensitivity, specificity, bias, influence of filters, influence of sleep expert.
Professor Wolfgang Oertel, Philipps University, Marburg, Germany

1. Video analysis
2. Discussion of endpoints: Diary, Questionnaire, other parameters
3. The clinical trial: What is the best primary endpoint for a therapeutic trial in RBD?

12 30 **Lunch**

14 00 **Pace maker properties of neurons in the locus coeruleus**
Dalton James Surmeier, PhD, Northwesten University, Chicago, USA

14 15 **Rodent Parkinson model including hyposmia**
Oscar Arias Carrion, MD, Philipps University, Marburg, Germany

14 30 **Clinical trial methodology, continued**
Professor Geert Mayer, Hephata-Klinik, Schwalm-Treysa, Germany

16 00 **Break**

16 30 **Trial evaluation**
What is the best primary endpoint for a therapeutic trial in RBD to demonstrate a disease modifying effect?
Professor Wolfgang Oertel, Philipps University, Marburg, Germany

19 30 **Dinner**

Sunday 01 05 2011

8 30 **Conclusions on Clinical Trial Design**
Prepare a consensus statement on trial design and best practices for consistent management of subjects in trials or patients generally.
Professor Wolfgang Oertel, Philipps University, Marburg, Germany
Professor Geert Mayer, Hephata-Klinik, Schwalm-Treysa, Germany

12 30 **Close**