The Movement Disorder Society's

11th International Congress of Parkinson's Disease and Movement Disorders





Tstanbul, Turkey

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EU abbreviated prescribing information: Name: Azilect® Tmg Active substance: Rasagiline mesylate Indication: Treatment of idiopathic Parkinson's disease (PD) as monotherapy (without levodopa) or as adjunct therapy (with levodopa) in patients with end of dose fluctuations. Contraindications: Hypersensitivity to the active substance or to any of the excipients. Concomitant treatment with other monoamine oxidase inhibitors (MAOI) or pethidine is contraindicated. At least 14 days should elapse between discontinuation of rasagiline and initiation of treatment with monoamine oxidase inhibitors or pethidine, Rasagiline is contraindicated in patients with severe hepatic insufficiency, Special warnings and precautions: The concomitant use of rasagiline and fluoxetine or fluvoxamine should be avoided. At least five weeks should elapse between discontinuation of fluoxetine and initiation of treatment with rasagiline. At least 14 days should elapse between discontinuation of rasagiline and initiation of treatment with fluoxetine or fluvoxamine. The concomitant use of rasagiline and dextromethorphan or sympathomimetics such as those present in nasal and oral decongestants or cold medications containing ephedrine or pseudoephedrine is not recommended. Caution should be used when initiating treatment with rasagiline in patients with mild hepatic insufficiency. Rasagiline use in patients with moderate hepatic impairment should be avoided. Interactions: In view of the MAO inhibitory activity of rasagiline, antidepressants should be administered with caution. Co-administration of rasagiline and ciprofloxacin (or other potent inhibitors of -CYP1A2) should be administered with caution. There is a risk that the plasma levels of rasagiline in smoking patients could be decreased. See also interactions listed in the contraindications and special warning sections. Pregnancy and lactation: Caution should be exercised when prescribing to pregnant women. Caution should be exercised when rasagiline is administered to a breast-feeding mother. Adverse reactions with at least 2% difference over placebo: Monotherapy: Headache, arthalgia, dyspepsia, flu syndrome, depression, conjunctivitis, malaise, neck pain. Adjunctive therapy: dyskinesia, accidental injury (primarily falls), postural hypotension, weight loss, constipation, abdominal pain, vomiting. Posology: 1 mg once daily with or without levodopa. It can be taken with or without food, Overdose: Symptomatic treatment: Patients should be monitored and the appropriate symptomatic treatment and



Simply effective

supportive therapy instituted. Absorption: Rasagiline is rapidly absorbed, reaching peak plasma concentration (Cmax) in approximately 0.5 hours. Elimination: Rasagiline undergoes almost complete biotransformation in the liver prior to excretion. It is eliminated primarily via urine and secondarily via faeces. Less than 1% of rasagiline is excreted as unchanged product in urine. Administration: Orally as 1 mg tablets. European Marketing Authorisation Holder: Teva Pharma GmbH, Germany, Distributor: H. Lundbeck A/S, Denmark.

References 1. Parkinson Study Group. A controlled trial of rasagiline in early Parkinson disease. Arch Neurol 2002; 59: 1937-1943. 2. Hauser RA, Lew MF, Hurtig HI, Ondo WG, Wojcieszek J and the TEMPO Extension Study Group. Early treatment with rasagiline is more beneficial than delayed treatment start in the long-term management of Parkinson's disease: analysis of the TEMPO ITT cohort. Poster presented at 16th International Congress on Parkinson's Disease and Related Disorders, June 5-9, 2005, Berlin, Germany. 3. Poewe W for PRESTO and LARGO investigators. Rasagiline provides significant benefits as adjunct therapy in patients with moderate Parkinson's disease: subgroup analyses. Poster presented at the 10th Congress of the European Federation of Neurological Societies, September 2-5, 2006, Glasgow, UK. 4. Parkinson Study Group. A randomised, placebo-controlled trial of rasagiline in levodopa-treated patients with Parkinson disease and motor fluctuations. Arch Neurol 2005; 62: 241-248. 5, Rascol O, Brooks DJ, Melamed E et al for the LARGO study group. Rasagiline as an adjunct to levodopa in patients with Parkinson's disease and motor fluctuations (LARGO study: a randomized, double-blind, parallel-group trial. Lancet 2005; 365: 947-954. 6. Stocchi F, Brooks DJ, Melamed E et al on behalf of the LARGO study group. Effect of rasagiline on severity of OFF in Parkinson's disease. Eur J Neurol 2004; 11[Suppl 2]:10. P2278. 7. Azilect® Summary of Product Characteristics.







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The *Movement* Disorder Society's 11th International Congress of Parkinson's Disease and Movement Disorders

Disease and Movement Disorders June 3-7, 2007 • Istanbul, Turkey

555 East Wells Street, Suite 1100 Milwaukee, WI 53202 USA Tel: +1 414-276-2145

Fax: +1 414-276-3349

Web site: www.movementdisorders.org E-mail: congress@movementdisorders.org

Welcome Letter

Dear Colleagues,

On behalf of The *Movement* Disorder Society (MDS), we are pleased to welcome you to Istanbul, Turkey for the 11th International Congress of Parkinson's Disease and Movement Disorders. The 11th International Congress has been designed to provide an innovative and comprehensive overview of the latest perspectives and research developments in the field of Movement Disorders.

We encourage you to take every opportunity to participate in the Scientific Program which has drawn world renowned speakers and foremost experts in their respective fields. In the next days, the latest research regarding Movement Disorders will be presented and discussed in an open format, offering unique educational opportunities for all delegates.

The International Congress convenes with a series of Opening Symposia and then continues with an array of Plenary, Parallel, Poster and Video Sessions, as well as Controversies, Skills Workshops and Meet the Expert sessions. New this year are How-To-Do-It sessions, which will bring a unique dynamic to the program.

Please save time in your schedule to participate in the Opening Ceremony and Welcome Reception on Sunday evening, as well as the Gala Event on Wednesday evening. These social events will celebrate the unique culture of Istanbul, and will incorporate some of the stunning views the city has to offer.

On behalf of The *Movement* Disorder Society, we would like to welcome you to Istanbul and thank you for your participation in this auspicious event.

With best regards,

Anthony E. Lang, MD, FRCPC

President, The Movement Disorder Society, 2007-2008

Eduardo Tolosa, MD

Chair, 2007 Congress Scientific Program Committee

Murat Emre, MD

Chair, 2007 Congress Local Organizing Committee



acknowledgements

The International Congress Oversight Committee of the 11th International Congress of Parkinson's Disease and Movement Disorders wishes to acknowledge and thank the following companies for their support:

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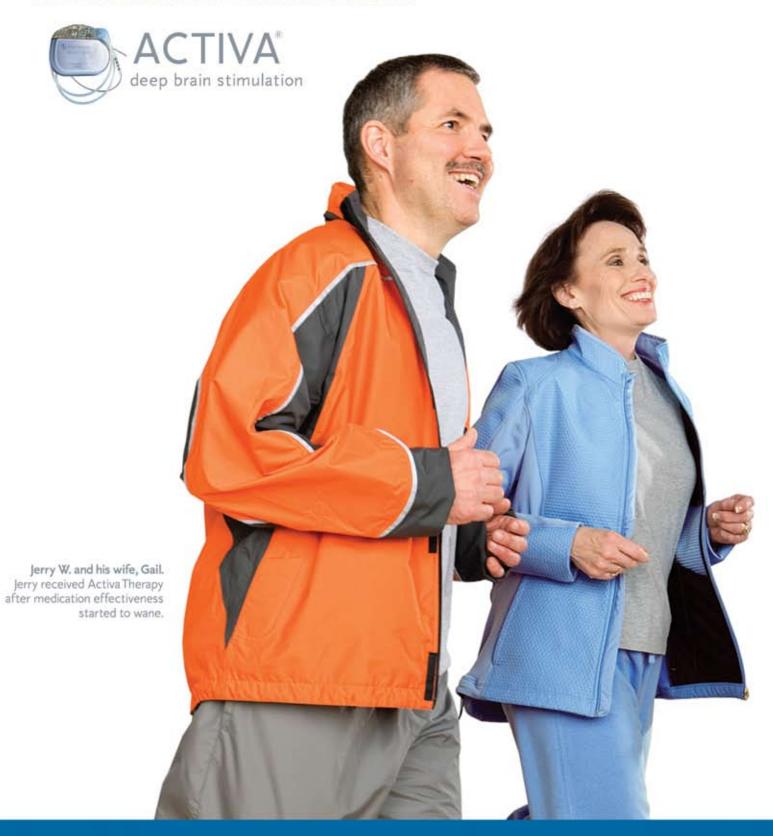


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- American Academy of Neurology 2006 guidelines estimate that "Ten to 20% of people with Parkinson's disease may be eligible for surgical treatments"³

For more information visit: www.doitsooner.com

References: 1. Based on a patient survey of 143 implanted patients. Data on file at Medtronic, Inc. 2. The Deep-Brain Stimulation for Parkinson's Disease Study Group. Deep-brain stimulation of the subthalamic nucleus or the pars interna of the globus pallidus in Parkinson's disease. N Engl J Med. 2001;345:956-963. 3. American Academy of Neurology. AAN Guideline Summary for Patients and Their Families: Medical and Surgical Treatment for Motor Fluctuations and Dyskinesia in Parkinson Disease; 2006.



11th International Congress of Parkinson's Disease and Movement Disorders

Activa" Parkinson's Control Therapy: Patients should always discuss the potential risks and benefits with a physician.

Indications: Bilateral stimulation of the internal globus pallidus (GPI) or the subthalamic nucleus (STN) using Medtronic." Activa." Parkinson's Control Therapy is indicated for adjunctive therapy in reducing some of the symptoms of advanced, levodopa-responsive Parkinson's disease that are not adequately controlled with medication.

Contraindications: Contraindications include patients who will be exposed to MRI using a full body radio-frequency (RF) coil or a head transmit coil that extends over the chest area, patients for whom test stimulation is unsuccessful, or patients who are unable to properly operate the neuro-stimulator. Also, diathermy (e.g., shortwave diathermy, microwave diathermy or therapeutic ultrasound diathermy) is contraindicated because diathermy's energy can be transferred through the implanted system (or any of the separate implanted components), which can cause tissue damage and can result in severe injury or death. Diathermy can damage parts of the neurostimulation system.

Warnings/ Precautions/Adverse Events: There is a potential risk of tissue damage using stimulation parameter settings of high amplitudes and wide pulse widths. Extreme care should be used with lead implantation in patients with a heightened risk of intracranial hemorrhage. Do not place the lead-extension connector in the soft tissues of the neck. Placeme in this location has been associated with an increased incidence of lead fracture. Theft detectors and security screening devices may cause stimulation to switch ON or OFF, and may cause some patients to experience a momentary increase in perceived stimulation. Although some MRI procedures can be performed safely with an implanted Activa System clinicians should carefully weigh the decision to use MRI in patients with an implanted Activa System. MRI can cause induced voltages in the neurostimulator and/or lead possibly causing uncomfortable, jolting, or shocking levels of stimulation. MRI image quality may be reduced for patients who require the neurostimulator to control tremor, because the tremor may return when the neurostimulator is turned off. Severe burns could result if the neurostimulator case is ruptured or pierced. The Activa System may be affected by or adversely affect medical equipment such as cardiac pacemakers or therapies, cardioverter/ cal equipment such as caronac paternases or transpos, cardoversery defibrillators, external defibrillators, ultrasonic equipment, electrocautery, or radiation therapy. Safety and effectiveness has not been established for patients with neurological disease other than Parkinson's disease, previous surgical ablation procedures, dementia, coagulopathies, or moderate to severe depression; or for patients who are pregnant, under 18 years or over 75 years of age. Adverse events related to the therapy, device, or procedure can include: stimulation not effective, cognitive disorders, pain, dyskinesia, dystonia, speech disorders including dysarthria, infection, paresthesia, intracranial hemorrhage, electromagnetic interference, cardiovascular events, visual disturbances, sensory disturbances, device migration, paresis/asthenia, abnormal gait, incoordination, headaches, lead repositioning, thinking abnormal, device explant, hemiplegia, lead fracture, seizures, respiratory events, and shocking or jolting stimulation

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about MDS

The *Movement* Disorder Society (MDS) is an international, professional society of clinicians, scientists, and other healthcare professionals who are interested in Parkinson's disease, related neurodegenerative and neurodevelopmental disorders, hyperkinetic Movement Disorders, and abnormalities in muscle tone and motor control. The spectrum of clinical disorders represented by the Society includes, but is not limited to:

Ataxia
Blepharospasm
Dysphonia
Dystonic disorders
Gait disorders
Huntington's disease
Myoclonus
Parkinson's disease
Restless legs syndrome
Spasticity
Tardive dyskinesia
Tics and Tourette syndrome
Tremor

The *Movement* Disorder Society (MDS) was founded in 1985 on the initiative of Professors Stanley Fahn and C. David Marsden, whose leadership and vision guided the expansion of clinical expertise and research in this field. The organization merged in 1988 with the International Medical Society for Motor Disturbances.

PURPOSE, MISSION AND GOALS

Purpose:

The object and mission of the Society shall be to advance the neurological sciences pertaining to Movement Disorders; to operate exclusively for scientific, scholarly and educational purposes; to encourage research; to provide forums, such as medical journals, scientific symposia and International Congresses, for sharing ideas and advancing the related clinical and scientific disciplines; to encourage interest and participation in the activities of the Society among healthcare and allied professionals and scientists; and to collaborate with other related professional and lay organizations.



about MDS

Mission and Goals:

To disseminate knowledge about Movement Disorders by:

- Providing educational programs for clinicians. scientists and the general public designed to advance scientific and clinical knowledge about Movement Disorders
- Sponsoring congresses and symposia on Movement Disorders
- Collaborating with other international organizations and lay groups
- Publishing journals, videotapes and other collateral materials committed to high scientific standards and peer review

To promote research into causes, prevention and treatment of Movement Disorders by:

- Using the Society's influence and resources to enhance support for research
- · Facilitating the dissemination of information about research
- Encouraging the training of basic and clinical scientists in Movement Disorders and related disorders

To formulate and promote public policy that will favorably affect the care of patients with Movement Disorders by:

- Working with regulatory agencies to assist them in the approval process of safe and effective therapeutic interventions
- Informing the public (media) and patient support groups of new research and therapeutic advances
- Playing a proactive role in the development of policies that affect support of research and patient care
- Developing standards of training in the specialty

MDS OFFICERS (2007-2008)

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President-Elect

Philip D. Thompson, Australia

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Olivier Rascol, France

Secretary-Elect

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Shu-Leong Ho, China

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Andrew J. Lees, United Kingdom

Yoshikuni Mizuno, Japan

C. Warren Olanow, USA

Philip D. Thompson, Australia

about MDS

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Past Presidents

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1988-1991 Stanley Fahn, USA

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Past Presidents

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MDS International Secretariat

The *Movement* Disorder Society 555 East Wells Street, Suite 1100 Milwaukee, WI 53202-3823 USA

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Philip D. Thompson

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Webster Ross

Christopher G. Goetz Austen Peter Moore Werner Poewe Olivier Rascol Bob Van Hilten Task Force on Neurosurgery

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Hiroki Toda Ali T. Zirh

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Werner Poewe Olivier Rascol Cristina Sampaio Glenn Stebbins

Eduardo Tolosa

UPDRS Revision Task Force Chair: Christopher G. Goetz

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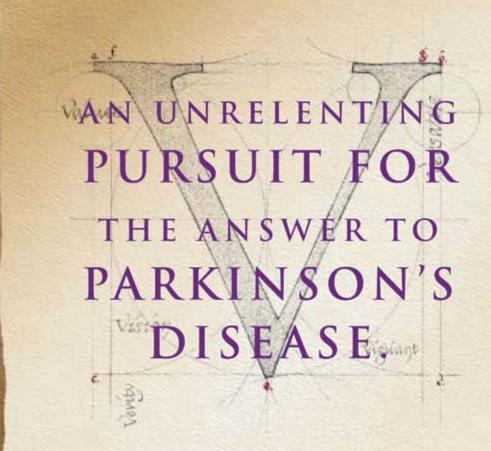
Appendices

Chair: Cristina Sampaio

Richard Dodel Jaime Kulisevsky Statistical Testing Chair: Barbara C. Tilley

Sue Leurgans Jean Teresi

MDS Committee and Task Force Chairs and members will meet during the International Congress. A schedule of these meetings will be provided to the Committee and Task Force members. The Committee and Task Force schedule of meetings will also be displayed on signage in the Society's Exhibit Booth, located on the first floor of the Istanbul Convention and Exhibition Centre.



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International Congress Registration and Venue

Badges

All International Congress attendees will receive a name badge with their registration materials. Badges should be worn at all times as they will be used to control access into all International Congress sessions and activities. Individuals will be identified as follows:

Red = Delegate Yellow = Exhibitor

Orange = Exhibitor Delegate

Green = Guest Purple = Press Black = Staff

Dates

Sunday, June 3, 2007 through Thursday, June 7, 2007

Hotel Information

Hilton

Cumhuriyet Caddesi Harbiye-Istanbul 34367

Turkey

Tel: +90 212 315 6000 Fax: +90 212 240 4165

Hyatt Regency

Taskisla Caddesi, Taksim

Istanbul, 34437

Turkey

Tel: +90 212 368 1234 Fax: +90 212 368 1000

Topkon Congress Services

Topkon is the 11th International Congress Housing Bureau. If you have any concerns regarding your hotel accommodations, please contact Topkon or visit their booth located on the main level of the Istanbul Convention and Exhibition Centre.

Topkon Congress Services

Headquarter Office

Zühtü Pasa Mah. Rifat Bey Sokak No: 24 PK. 34724 Kalamis-Kadiköy, Istanbul

Turkey

Tel: + 90 216 330 90 20 Fax: + 90 216 330 90 05 E-mail: congress@topkon.com Web Site: www.topkon.com

Language

The official language of the International Congress is English.

Registration Desk

Location: Main Entrance, First Floor, Istanbul Convention and Exhibition Centre

Name badges, session tickets, special event tickets and International Congress registration bag tickets can be collected at the International Congress Registration Desk located in the Main Entrance of the Istanbul Convention and Exhibition Centre.

Registration Desk Hours

Saturday, June 2	4:00 p.m. to 8:00 p.m.
Sunday, June 3	7:00 a.m. to 8:30 p.m.
Monday, June 4	7:00 a.m. to 9:00 p.m.
Tuesday, June 5	7:00 a.m. to 7:00 p.m.
Wednesday, June 6	7:00 a.m. to 7:30 p.m.
Thursday, June 7	7:00 a.m. to 5:00 p.m.

Venue

Istanbul Convention and Exhibition Centre (ICEC) Istanbul Lutfi Kirdar Convention and Exhibition Centre Lutfi Kirdar Uluslararasi Kongre ve Sergi Sarayi Harbiye 80230 Istanbul

Turkey

Tel: + 90 212 296 3055 Fax: + 90 212 224 0878

http://www.icec.org/en/index.asp

International Congress Information

Abstract Volume

All abstracts accepted for poster presentation have been published in an abstract supplement to the MDS Journal, *Movement* Disorders. Each delegate should have received one copy with their registration materials. MDS members will receive an additional copy with an MDS Journal issue.

Abstracts-On-CD-ROM

All abstracts published in the supplement to the MDS Journal are available by Abstracts-On-CD-ROM sponsored by MDS and supported by an unrestricted educational grant from Medtronic. To obtain a copy, please visit the Medtronic Booth (# 109) located in the Rumeli Building, upper floor.

Continuing Medical Education Objectives

As a result of participating in this activity, the attendee should be better able to:

- Describe the pathophysiology and neurobiology of Parkinson's disease and other Movement Disorders;
- Discuss the diagnostic approaches and tools available for Parkinson's disease and other Movement Disorders;
- Discuss the pharmacological and non-pharmacological treatment options available for Parkinson's disease and other Movement Disorders.

Target Audience

The target audience of the 11th International Congress of Parkinson's Disease and Movement Disorders includes clinicians, researchers, post-doctoral fellows, medical residents, medical students and other healthcare professionals with an interest in the current research and approaches for the diagnosis and treatment of Movement Disorders.

Faculty Financial Disclosure Information

It is the policy of The *Movement* Disorder Society (MDS) to ensure balance, independence, objectivity and scientific rigor in all sponsored educational activities. All faculty participating in any MDS sponsored activities are required to disclose to the activity audience any real or apparent conflict(s) of interest that may have a direct bearing on the subject matter of the Continuing Medical Education (CME) activity. This pertains to relationships with pharmaceutical companies, biomedical device manufacturers, or other corporations whose products or services are related to the subject matter of the presentation topic. The intent

of this policy is not to prevent a speaker with a potential conflict of interest from making a presentation. It is merely intended that any potential conflict should be identified openly so that the listeners may form their own judgments about the presentation with the full disclosure of the facts. It remains for the audience to determine whether the speaker's outside interest may reflect a possible bias in either the exposition or the conclusions presented.

Faculty financial disclosure information will be provided to participants onsite in Istanbul.

Please see the program addendum in your International Congress registration bag for complete information regarding faculty disclosure of commercial relationships.

Faculty Disclosure of Unlabeled Product Use Discussion

Presentations which provide information in whole or in part related to non-approved uses for drug products and/or devices must clearly acknowledge the unlabeled indications or the investigative nature of their proposed uses to the audience. Speakers who plan to discuss non-approved uses for commercial products and/or devices must advise the International Congress audience of their intent. Please see the program addendum in your International Congress registration bag for complete information regarding faculty disclosure of unlabeled product use discussion.

Evaluations

Please take time to complete the evaluation forms provided for each session you attend. Your input and comments are essential in planning future educational programs for MDS.

When completed, evaluations may be returned to your meeting room attendants, the evaluation drop boxes or to the MDS Registration Desk.

Internet Café

Location: Istanbul Convention and Exhibition Centre, Second Floor and Rumeli Building, First Level

Internet access is available to meeting attendees in two convenient locations, the ICEC and Rumeli Building. Please limit your Internet use to 15 minutes to allow other attendees use of this service. This service is supported through an unrestricted educational grant from Lundbeck Turkey.



International Congress Information

MDS Exhibit and Information Booth

Location: Main Lobby, First Floor, Istanbul Convention and Exhibition Centre

The *Movement* Disorder Society (MDS) is an International Society of healthcare professionals committed to research and patient care in the fields of Parkinson's disease and other disorders of movement and motor control.

Created not only to further the goals and objectives of MDS International, The *Movement* Disorder Society's regional sections, the Asian and Oceanian Section and European Section, strive to increase the interest, education and participation of neurologists, Movement Disorder specialists, non-Movement Disorder specialists, trainees, allied health professionals and scientists in the Asian, Oceanian and European regions.

MDS supports and promotes a wide range of educational programming and other initiatives to advance scientific understanding and standards of care as they pertain to Movement Disorders. For this, MDS provides forums such as a high ranking journal, scientific symposia and International Congresses.

Attendees are invited to take advantage of MDS member benefits by applying to the Society. Learn more about MDS initiatives and speak with a representative at the MDS Exhibit and Information Booth located in the main lobby of the Istanbul Convention and Exhibition Centre during the following hours:

Sunday, June 3	12:00 p.m. to 7:00 p.m.
Monday, June 4	8:00 a.m. to 7:00 p.m.
Tuesday, June 5	8:00 a.m. to 7:00 p.m.
Wednesday, June 6	8:00 a.m. to 7:00 p.m.
Thursday, June 7	8:00 a.m. to 4:30 p.m.

No Cameras

Cameras are not permitted in any 11th International Congress educational sessions or in the poster areas.

Opening Ceremony and Welcome Reception

Location: Istanbul Convention and Exhibition Centre, First Floor and the Rumeli Gardens

The Opening Ceremony will take place on Sunday, June 3, at 7:30 p.m. The Welcome Reception will immediately follow the Opening Ceremony in the Rumeli Gardens. These events are open to all delegates and registered guests.

Optional Tours Desk

Location: Main Lobby, First Floor, Istanbul Convention and Exhibition Centre

Tours have been arranged by Topkon Congress Services. Please visit the Tours Desk located near the Registration Area in the Main Lobby on the first floor of the Istanbul Convention and Exhibition Centre to check in for the tours. Additional tour tickets may be purchased at the desk, based on availability.

Press Room

Location: Office I, Istanbul Convention and Exhibition Centre

Members of the working media receive waived registration fees for the 11th International Congress. Journalists and writers should report to the Press Room with their credentials to register for the International Congress and wear their name badge for admittance into MDS sessions. The Press Room will be open during the following hours:

Sunday, June 3	8:00 a.m. to 5:00 p.m.
Monday, June 4	8:00 a.m. to 5:00 p.m.
Tuesday, June 5	8:00 a.m. to 5:00 p.m.
Wednesday, June 6	8:00 a.m. to 5:00 p.m.
Thursday, June 7	8:00 a.m. to 5:00 p.m.

International Congress Information

Scientific Sessions

The 2007 Scientific Program incorporates Opening Symposia, Plenary and Parallel Sessions, Skills Workshops, Video Sessions, How-To-Do-It Sessions, Meet the Expert Sessions, Poster Sessions, and Controversies and Skills Workshops.

Although the ever popular Opening Symposia and Plenary Sessions follow a style similar to the 2004 Rome and 2005 New Orleans International Congresses, meet the Expert Sessions, Parallel Sessions and Skills Workshops are designed to meet the need for smaller, more focused sessions. These sessions are offered to an audience size of 50-200 participants resulting in greater opportunities for audience participation.

Tickets are required for admission into all Parallel Sessions, Video and Meet the Expert Sessions, Skills Workshops and How-To-Do-It Sessions. There is no additional fee for tickets to these sessions. Please check the onsite Registration Desk for availability of these tickets.

Poster Sessions

Location: Rumeli Hall, Lower Level

Delegate feedback from past International Congresses has indicated great interest in Poster Sessions. Poster Sessions are featured each day based upon the following schedule:

Visit us on the Web at www.movementdisorders.org



For further information, please contact:

The *Movement* Disorder Society

International Secretariat 555 East Wells Street, Suite 1100 Milwaukee, WI 53202 USA

Tel: + 1 414-276-2145 Fax: + 1 414-276-3349

E-mail: info@movementdisorders.org Web site: www.movementdisorders.org

Poster Session 1

Location: Rumeli Hall, Lower Level

Tuesday, June 5

Poster Viewing: 9:00 a.m. to 4:00 p.m. Authors Present: 12:30 p.m. to 2:30 p.m. Abstracts: 33-345, and poster 683

Poster Session 2

Location: Rumeli Hall, Lower Level

Wednesday, June 6

Poster Viewing: 9:00 a.m. to 4:00 p.m. Authors Present: 12:30 p.m. to 2:30 p.m. Abstracts: 346-662, and Poster 788

Poster Session 3

Location: Rumeli Hall, Lower Level

Thursday, June 7

Poster Viewing: 9:00 a.m. to 4:00 p.m. Authors Present: 12:30 p.m. to 2:30 p.m.

Abstracts: 663-973

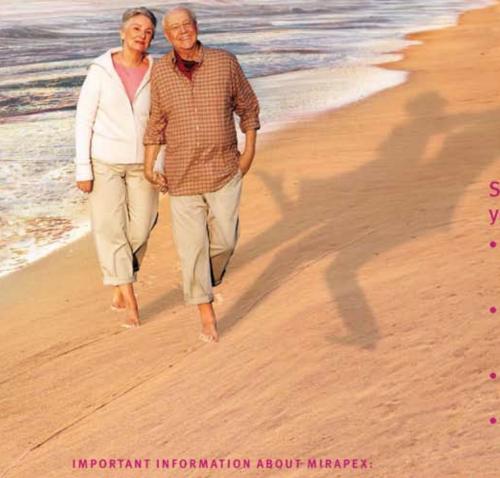
Speaker Ready Room

Location: Sultan II, Ground Floor, Istanbul Convention and Exhibition Centre

All speakers must check in at the Speaker Ready Room with presentation materials on the day prior to their scheduled presentation. Equipment is available to allow faculty to review their presentations. Audiovisual personnel will be available for assistance. The Speaker Ready Room hours are as follows:

Saturday, June 2	4:00 p.m. to 8:00 p.m.
Sunday, June 3	7:00 a.m. to 8:30 p.m.
Monday, June 4	7:00 a.m. to 9:00 p.m.
Tuesday, June 5	7:00 a.m. to 7:00 p.m.
Wednesday, June 6	7:00 a.m. to 7:00 p.m.
Thursday, June 7	7:00 a.m. to 4:30 p.m.

Staying in rhythm with life



Stay in rhythm with your patients' needs

- MIRAPEX, as initial monotherapy, enables early PD patients to maintain their everyday activities.
- MIRAPEX, in combination with levodopa, helps improve functioning in advanced PD.²
- MIRAPEX significantly reduces levodopa-resistant tremor.³
- MIRAPEX can help save levodopa for when it's really needed.
- MIRAPEX is indicated for the treatment of the signs and symptoms of idiopathic Parkinson's disease.
- Patients have reported falling asleep without perceived warning signs during activities of daily living, including
 operation of a motor vehicle, which sometimes resulted in accidents. Postural (orthostatic) hypotension may occur.
- The most commonly reported adverse events in early and late disease in clinical trials were dizziness, dyskinesia, extrapyramidal syndrome, hallucinations, headache, insomnia, somnolence, and nausea.

References: 1. Shannon KM, Bennett JP, Friedman JH, for the Pramipexole Study Group. Efficacy of pramipexole, a novel dopamine agonist, as monotherapy in mild to moderate Parkinson's disease. Neurology, 1997;49:724-728. 2. Lieberman A, Ranhosky A, Korts D. Clinical evaluation of pramipexole in advanced Parkinson's disease: results of a double-blind, placebo-controlled, parallel-group study. Neurology. 1997;49:162-168. 3. Möller JC, Oertel WH, Köster J, Pezzoli G, Provinciali L. Long-term efficacy and safety of pramipexole in advanced Parkinson's disease: results from a European multicenter trial. Mov Disord. 2005;20:602-610. 4. Barone P, Bressman S. Pramipexole without levodopa as early treatment for Parkinson's disease: a long-term follow-up of 717 patients. Poster presented at: 53rd Annual Meeting of the American Academy of Neurology; May 5-11, 2001; Philadelphia, Pa.

Please see accompanying Brief Summary of Prescribing Information, including new precaution. Visit us at www.mirapex.com







Mirapex* (pramipexole dihydrochloride) 0.125 mg, 0.25 mg, 0.5 mg, 1 mg, and 1.5 mg tablets INDICATIONS AND USAGE

Parkinson's Disease: MIRAPEX tablets are indicated for the treatment of the signs and symptoms of idiopathic

Restless Legs Syndrome: MIRAPEX tablets are indicated for the treatment of moderate-to-severe primary Restless Legs.

CONTRAINDICATIONS: MIRAPEX tablets are contraindicated in patients who have demonstrated hypersensitivity to the

WARNINGS: Falling Asleep During Activities of Daily Living

Warnings: raining Assets burning Activities of Daily Dvinig Patients treated with Mirapex® (pramipexole dihydrochloride) have reported falling asleep while engaged in activities of daily living, including the operation of motor vehicles which sometimes resulted in accidents. Although many of these patients reported somnolence while on MiRAPEX tablets, some perceived that they had

activities of daily living, including the operation of motor vehicles which sometimes resulted in accidents. Although many of these patients reported somnolence while on MiRAPEX tablets, some perceived that they had no warning signs such as excessive drowsiness, and believed that they were alert immediately prior to the event. Some of these events had been reported as late as one year after the initiation of treatment. Somnolence is a common occurrence in patients receiving MiRAPEX tablets at doses above 1.5 mg/day (0.5 mg TID) for Parkinson's disease. In controlled clinical trials in RLS, patients treated with MiRAPEX tablets at doses of 0.25-0.75 mg once a day, the incidence of somnolence was 6% compared to an incidence of 3% for placebo-treated patients (see ADVERSE EVENTS). Many clinical experts believe that falling askeep while engaged in activities of daily living always occurs in a setting of pre-existing somnolence, although patients may not give such a history. For this reason, prescribers should continually reassess patients for drowsiness or sleepiness, especially since some of the events occur well after the start of treatment. Prescribers should also a ware that patients may not acknowledge drowsiness or sleepiness until directly questioned about drowsiness or sleepiness during specific activities.

Before initiating treatment with MiRAPEX tablets, patients should be advised of the potential to develop drowsiness and specifically asked about factors that may increase the risk with MiRAPEX tablets such as concomitant sedating medications, the presence of sleep disorders, and concomitant medications that increase ramipexole plasma levels (e.g., cimetidine – see PRECAUTIONS, Drug Interactions), If a patient develops significant daytine sleepiness or episodes of falling asleep during activities that require active participation (e.g., conversations, eating, etc.), MiRAPEX tablets should ordinarily be discontinued. If a decision is made to exhibit the Middle ordinarily be discontinued in activities of i Symptomatic Hypotension: Dopamine agonists, in clinical studies and clinical experience, appear to impair the systemic regulation of blood pressure, with resulting orthostatic hypotension, especially during dose escalation. Parkinson's disease patients, in addition, appear to have an impaired capacity to respond to an orthostatic challenge. For these reasons, both Parkinson's disease patients and RLS patients being treated with dopaminergic agonists ordinarily require careful

Parkinson's disease patients and RLS patients being treated with doparninergic agonists ordinarily require careful monitoring for signs and symptoms of orthostatic hypotension, especially during dose escalation, and should be informed of this risk (see PRECAUTIONS, Information for Patients): In clinical trials of pramipexole, however, and despite clear orthostatic effects in normal volunteers, the reported incidence of clinically significant orthostatic hypotension was not greater among those assigned to Mirapex' (gramipexole dilhydrochloride) tablets than among those assigned to placebo. This result, especially with the higher doses used in Parkinson's disease, is clearly unexpected in light of the previous experience with the risks of documen agonist therapy. While this finding could reflect a unique property of pramipexole, it might also be explained by the conditions of the study and the nature of the population errolled in the clinical trials. Patients were very carefully titrated, and patients with active cardiovascular disease or significant orthostatic hypotension at baseline were excluded. Also, clinical trials in patients with RLS did not incorporate orthostatic challenges with intensive blood pressure monitoring done in close temporal proximity to ossino.

to costing.

Hallucinations: In the three double-blind, placebo-controlled trials in early Parkinson's disease, hallucinations were observed in 9% (35 of 388) of patients receiving MRAPEX tablets, compared with 2.6% (6 of 235) of patients receiving placebo. In the four double-blind, placebo-controlled trials in advanced Parkinson's disease, where patients receiving MIPAPEX tablets and concomitant levodopa, hallucinations were observed in 16.5% (43 of 260) of patients receiving MIPAPEX tablets compared with 3.8% (10 of 264) of patients receiving placebo. Hallucinations were of sufficient severity because discontinuation of temperature in 2.5% (45 of patients receiving placebo. Hallucinations were of sufficient severity because discontinuation of temperature in 2.5% (45 of patients receiving placebo. Hallucinations were of sufficient severity because in the control of the patients receiving placebo.

nairy Ex tables compared with 3.4% (10 color) of patients receiving placebot. Particularations were of sunneint severing to cause discontinuation of treatment in 3.1% of the early Parkinson's disease patients and 2.7% of the advanced Parkinson's disease patients and 2.7% of the advanced Parkinson's disease patients in both populations.

Age appears to increase the risk of hallucinations attributable to pramipexole. In the early Parkinson's disease patients, the risk of hallucinations was 1.9 times greater than placebo in patients older than 65 years. In the advanced Parkinson's disease patients, the risk of hallucinations was 3.5 times greater than placebo in patients younger than 65 years and 5.2 times greater than placebo in patients older than 65 years. than 65 years.

In the RLS clinical program, one pramipexole-treated patient (of 889) reported hallucinations; this patient discontinued

nt and the symptoms resolved

PRECAUTIONS

Rhabdomyolysis: A single case of rhabdomyolysis occurred in a 49-year-old male with advanced Parkinson's disease treated with MiRAPEX tablets. The patient was hospitalized with an elevated CPK (10,631 IUA). The symptoms resolved with discontinuation of the medication. Renal: Since pramipexile is eliminated through the kidneys, caution should be exercised when prescribing Mirapaex* (pramipexole dihydrothoride) tablets to patients with renal insufficiency (see DOSAGE AND ADMINISTRATION in full Prescribing Information). Dyskinesia: MIRAPEX tablets may potentiate the DOSAGE AND ADMINISTRATION in full Prescribing Information). Dyskinesia: MiFAPEX tablets may optentate the dopaminergic side effects of levodopa and may cause or exacerbate pressisting dyskinesia. Decreasing the dose of levodopa may ameliorate this side effect. Retinal Pathology in Albino Rats: Pathologic changes (degeneration and loss of photoreceptor cells) were observed in the retina of albino rats in the 2-year carcinogenicity study. While retinal degeneration was not diagnosed in pigmented rats treated for 2 years, a thinning in the outer nuclear layer of the retina was slightly greater in rats given drug compared with controls. Evaluation of the retinas of albino mice, morkeys, and minipigs did not reveal similar changes. The potential significance of this effect in humans has not been established, but cannot be disregarded because disruption of a mechanism that is universally present in vertebrates (i.e., disk shedding) may be involved (see ANIMAL TOXICOLOGY).

Events Reported with Dopaminergic Therapy: Although the events enumerated below may not have been reported in association with the use of pramipsoide in its development program, they are associated with the use of other dopaminergic drugs. The expected incidence of these events, however, is so low that even if pramipsoide caused these events at rates similar to those attributable to other dopaminergic therapies, it would be unlikely that even a single case would have occurred in a cohort of the size exposed to pramipsole in studies to date. Withdrawal-mergent Hyperpyrexia and Confusion: Although not reported with pramipsole in the clinical development program, a symptom complex resembling the neurologic melignant syndrome characterized by elevated temperature, muscular rigidity, altered consciousness, and autonomic instability), with no other obvious etiology, has been reported in association with night dose reduction, withdrawal of, or changes in antiparkinsonian therapy, Fibratic Complications. Although not reported with pramipexole in the clinical development program, cases of retroperitoneal fibrosis, pulmonary infiltrates, pleural effusion, and pleural thickening, pericarditis, and cardiac valvulopathy have been reported in some patients treated with ergotderived dopaminergic agents. While these complications may resolve when the drug is discontinued, complete resolution does not always occur.

Although these adverse events are believed to be related to the ergoline structure of these compounds, whether other, nonergot derived dopamine agonists can cause them is unknown.

A small number of reports have been received of possible fibrotic complications, including peritoneal fibrosis, pleural

A small number of reports have been received or possible florotic complications, including peritorical florosis, and purinonary fibrosis in the post-marketing experience for Milraper's (prampexied titylindochroided) labels. While the evidence is not sufficient to establish a causal relationship between MIRAPEX tables and these fibrotic complications, a contribution of MIRAPEX tables cannot be completely ruled out in rare cases. *Melanoma*: Some epidemiologic studies have shown that patients with Parkinson's disease have a higher risk (perhaps 2- to 4-fold higher) of developing melanoma than the general population. Whether the observed increased risk was due to Parkinson's disease or other factors, such as drugs used to test Parkinson's disease, was unclear. MRAPEX tablets are one of the docamine agonists used to treat Parkinson's disease, was unclear. MRAPEX tablets are one of the docamine agonists used to treat Parkinson's disease, was not such as the parkinson's disease, was not one of the docamine agonists used to treat Parkinson's disease, withough MIRAPEX tablets have not been associated with an increased risk of melanoma specifically, its notertial rules as a risk catch has not been systematically studied. Patients usion MRAPEX tables for not infication infication in the patients of the patients. its potential role as a risk factor has not been systematically studied. Patients using MIRAPEX tablets for any Indication

should be made aware of these results and should undergo periodic dermatologic screening.

Impulse Control/Compulsive Behaviors: Cases of pathological gambling, hypersexuality, and compulseve eating (including birge eating) have been reported in patients treated with dopamine agonist therapy, including pramipsxole therapy. As described in the literature, such behaviors are generally reversible upon dose reduction or treatment

Rebound and Augmentation in RLS: Reports in the literature indicate treatment of RLS with dopaminergic medications can result in a shifting of symptoms to the early morning hours, referred to as rebound. Rebound was not reported in the clinical trials of MiRAFEX tablets but the trials were generally not of sufficient duration to capture this phenomenon. Augmentation has also been described during therapy for RLS. Augmentation refers to the earlier onset of symptoms in the evening for even the afternoon), increase in symptoms, and spread of symptoms to involve other externities. In a controlled trial of MiRAFEX tablets for RLS, approximately 20% of both the Mirapex- and placeto-treated patients reported at least a 2-hour earlier onset of symptoms during the day by the end of 3 months of treatment. The frequency and severity of augmentation and/or rebound after longer-term use of MiRAPEX tablets and the appropriate management of these events have not been adequately evaluated in controlled clinical trials.

Information for Patients (also see Patient Package insert): Patients should be instructed to take MIRAPEX tablets only

as presortiod.

Patients should be elerted to the potential sedating effects associated with MIRAPEX tablets, including somnolence and the possibility of falling asleep while engaged in activities of daily living. Since somnolence is a frequent adverse event with potentially senious consequences, patients should neither drive a car nor engage in other potentially dangerous activities until they have gained sufficient experience with Mirapex[®] (translessed dihydrochloride) tablets to gauge whether or not it affects their mental and/or motor performance adversely. Patients should be advised that if increased

somnolence or new episodes of falling asteep during activities of daily living (e.g., watching television, passenger in a car, etc.) are experienced at any time during treatment, they should not other or participate in potentially dangerous activities until they have contacted their physician. Because of possible additive effects, caution should be advised when patients

until they have contacted their physician, Because or possible abotive effects, caution should be abosed when patients are taking other sedating medicators or allowed in combination with MIRAPEX tablets and when taking concomitant medications that increase plasma levels of pramipesole (e.g., climetidine). Patients should be informed that hallucinations can occur and that the eliderly are at a higher risk than younger patients with Parkinson's disease. In clinical trials, patients with RLS treated with pramipesole rarely reported hallucinations. Patients and caregivers should be informed that impulse control disorders/compulsive behaviors may occur while taking medicines to text Parkinson's disease or R.S. including MIRAPEX tablets. These include pathological gambling, hypersexuality, and compulsive eating including bringe eating). It such behaviors are observed with MIRAPEX tablets, dose reduction or treatment discondinguish should be considered.

hypersexuality, and compulsive eating (including binge sating). If such behaviors are observed with MIRAPEX tablets, dose reduction or treatment discontinuation should be considered.
Patents may develop postural (orthostatic) hypotension, with or without symptoms such as dizziness, nausea, fainting or blackouts, and sometimes, sweating. Hypotension may occur more frequently during initial therapy. Accordingly, patients should be earliened against rising rapidly after stifting or lying down, especially if they have been doing so for prolonged periods and especially at the initiation of treatment with MIRAPEX tablets. Because the terategenic potential of pramipiexole has not been completely established in laboratory animals, and because experience in humans is limited, patients should be advised to notify their physicians if they become pregnant or intend to become pregnant during therapy (see PRECAUTIONS, Pregnancy).
Because of the possibility that pramipiexole may be excreted in breast milk, patients should be advised to notify their physicians if they intend to breast-feed or are breast-feeding an infant.
If patients develop nausea, they should be advised that taking MIRAPEX tablets with food may reduce the occurrence of nausea.

Laboratory Tests: During the development of MIRAPEX tablets, no systematic abnormalities on routine laboratory testing were noted. Therefore, no specific guidance is offered regarding routine monitoring; the practitioner retains responsibility for determining how best to monitor the patient in his or her care.

Drug interactions: Carbicogar/abocopa: Carbidogar/eocopa did not influence the pharmacokinetics of pramipeocle in healthy

volunteers (N=10). Pramipsose did not after the extent of absorption (AUC) or the elimination of carbidoca/lovologo, allhough it caused an increase in lexodopa C_{min} by about 40% and a decrease in T_{min} from 2.5 to 0.5 hours. Selegiline in healthy volunteers (N=11), selegiline did not influence the pharmacokinetics of pramipexole. *Amantadine*: Population pharmacokinetic analyses suggest that amantadine may slightly decrease the oral clearance of pramipexole. Cimetidine: Cimetidine, a known inhibitor of renal tubular secretion of organic bases via the cationic transport system, caused a 50% increase in pramipexole ALC and a 40% increase in half-life (N=12). Probenecid: Probenecid, a known inhibitor of renal tubular secretion of organic acids via the anionic transporter, did not noticeably influence pramipexole pharmacokinetics (N=12). Other drugs eliminated via renal secretion: transporter, did not noticeably influence prampexice pharmacolinetics (N=12). Other arugs eliminated via renal secretion. Population pharmacokinetic rankjess suggests that coadministration of drugs that are secreted by the cationic transport system (e.g., cimetoline, ranktidine, dilitiazem, triamterene, verapamil, quinidine, and quinine) decreases the oral clearance of pramipexole by about 20%, while those secreted by the anionic transport system (e.g., caphalosporties, periolilins, indomethacin, hydrochlorichizade, and chloroporamicily are likely to have little effect on the oral clearance of pramipexole. PM interactions: Inhibitors of cytochrome P450 enzymes would not be expected to affect pramipexole elimination because pramipexole is not appreciably metabolized by these enzymes in vivo or in vitro. Pramipexole does not inhibit CPP enzymes CP142. CYP209, CYP2019, CYP251, and CYP344. Inhibition of CYP206 was observed following the clinical dose of 4.5 mg/dky (1.5 mg/TD), Daparnine anteropicies. Sono pramipexole is a dispanine provide the displacement and expensive such as the providentic exchange in expensive carbon to menulations observed following the clinical dose of 4.5 mg/dky (1.5 mg/TD), Daparnine antagonists: Since pramipexole is a doparmine agonist, it is possible that doparmine antagonists, such as the neuroleptics (phenothiazines, butyrophenones, thioxanthenes) or metoclopramide, may diminish the effectiveness of Mirapex® (pramipexole othydrochloride) tablets.

Drug/Laboratory Test Interactions: There are no known interactions between MIFAPEX tablets and laboratory tests. Drugh_aboratory Test Interactions: There are no known interactions between MIRAPEX tablets and laboratory tests. Carcinogenesis, Mutagenesis, Impairment of Fertility: Two-year carcinogenicity studies with pramiposole have been conducted in mice and rats. Pramiposole was administered in the diet to Chibb/MRI mice at deses of 0.3, 2, and 10 mg/kg/day [0.3, 2.2, and 11 times the Maximum Recommended Human Dose (MRH-ID) MRH-D of 1.5 mg TIID on a mg/m² bassij). Pramiposole was administered in the diet to Wistair rats at 0.3, 2, and 8 mg/kg/day plasma AUCs were 0.3, 2.5, and 12.5 times the AUC in humans at the MRH-ID). No significant increases in tumors occurred in either species. Pramiposole was not mutagenic or clastogenic in a battery of assays, including the in vitro Ames assay //Y gene mutation assay for HGPRT mutants, chromosomal aberration assay in Chinese hamster ovary cells, and in vivo mouse micronucleus assay.

assay, in rat fertility studies, pramipexole at a dose of 2.5 mg/kg/day (5 times the MRH:D on a mg/m² basis), prolonged estrus cycles and inhibited implantation. These effects were associated with reductions in serum levels of protactin, a hormone necessary for implantation and maintenance of early pregnancy in rate processary for implantation and maintenance of early pregnancy in rate processary for implantation and maintenance of early pregnancy; C. When pramipoxole was given to female rats throughout pregnancy, implantation was inhibited at a dose of 2.5 mg/kg/day (5 times the MRHD on a mg/m² basis). Administration of 1.5 mg/kg/day of pramipoxole to pregnant rats during the period of organoperasis (gestation days 7 through 16 resulted in a high incidence of total recorption of embryos. The plasma AUC in rats at this dose was 4 times the AUC in humans at the MRHD. These findings are thought to be due to the prolactin-lowering effect of pramipoxole, since prolactin is necessary for implantation and maintenance of early presence of the formal production of high top of training or humans. Because of humans at the MRHD. These findings are thought to be due to the prolactin-lowering effect of pramipexele, since prolactin is necessary for implentation and maintenance of early pregnancy in task but not rabbits or humans, Because of pregnancy disruption and early embryonic loss in these studies, the teratogenic potential of pramipexole could not be adequately evaluated. There was no evidence of adverse effects on embryo-fetal development following administration of up to 10 mg/kg/day to pregnant rabbits during organogenesis (glasma ALC was 71 times that in humans at the MRHD). Postnatal growth was inhibited in the disporing of rats treated with 0.5 mg/kg/day (approximately equivalent to the MRHD) on a mg/m³ basis) or greater during the latter part of pregnancy and throughout lactation.

There are no studies of pramipexole in human pregnancy. Because animal reproduction studies are not always predictive of human response, pramipexole should be used during pregnancy only if the potential benefit outweighs the potential risk to the fetus.

Nursing Mothers: A single-dose, radio-labeled study showed that drug-related materials were excreted into the breast milk of lactating rats. Concentrations of radioactivity in milk were three to six times higher than concentrations in plasma at equivalent time points.

Other studies have shown that pramipexole treatment resulted in an inhibition of prolactin secretion in humans and rats. It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from pramipexole, a decision should be made as to whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother. Pediatric Use: The safety and efficacy of Mirapax® (pramipexole dihydrochloride) tablets in pediatric patients has not

Geriatric Use: Pramipexole total oral clearance was approximately 30% lower in subjects older than 65 years compared with jounger subjects, because of a decline in pramipiexole renal clearance due to an age-related reduction in retail function. This resulted in an increase in elimination half-life from approximately 8.5 hours to 12 hours. In clinical studies with Parkinson's disease patients, 39.7% of patients were older than 65 years. There were no apparent differences in efficacy or safety between older and younger patients, except that the relative risk of hallucination associated with the use of MIRAPEX tablets was increased in the elderly. In clinical studies with FLS patients, 22% of patients were at least 65 years old. There were no apparent differences in efficacy or safety between older and younger patients.

Parkinson's Disease: During the premarketing development of pramipexole, patients with either early or advanced Parkinson's disease were enrolled in clinical trials. Apart from the severity and duration of their disease, the two populations differed in their use of concomitant levodopa therapy. Patients with early disease did not receive concomitant levodopa therapy during treatment with pramipoxole; those with advanced Parkinson's disease all received concomitant. levelope treatment. Because these two populations may have differential risks for various adverse events, this section will, in general, present adverse-event data for these two populations separately. Because the controlled trials performed during permarketing development all used a titration design, with a resultant confounding of time and dose, it was impossible to adequately evaluate the effects of dose on the incidence of adverse events.

Early Parkinson's Disease: In the three double-blind, placebo-controlled trials of patients with early Parkinson's disease the most commonly observed adverse events (>5%) that were numerically more frequent in the group treated with MIRAPEX tablets were nausea, dizziness, somnolence, insomnia, constipation, asthenia, and hallucinations. Approximately 12% of 388 patients with early Parkinson's disease and treated with MIRAPEX tablets who participated in the

oiotile-billnd, placebo-controlled trials dissonitinued treatment due to adverse events compared with 11% of 235 patients who received placebo. The adverse events most commonly causing discontinuation of treatment were related to the nervous system (hallucinations (3.1% on MIRAPEX tablets vs 0.4% on placebo); comnolence (1.0% on MIRAPEX tablets vs 0.0% on placebo); somnolence (1.0% on MIRAPEX tablets vs 0% on placebo); somnolence (1.0% on MIRAPEX tablets vs 0%), on placebo); and gastrointestinal system (nausea (2.1% on MIRAPEX tablets vs 0.4% on placebo); and gastrointestinal system (nausea (2.1% on MIRAPEX tablets vs 0.4% on placebo). Adverse-event incidence in Controlled Clinical Studies in Early Parkinson's Disease: This section lists treatment-emergent adverse events that occurred in the double-blind, placebo-controlled studies in early Parkinson's disease that were reported by 1% or more of patients treated with MIRAPEX tablets and were numerically more frequent than in the placebo group. In these studies, patients did not receive concomitant levodopa. Adverse events were usually mild or moderate in intensity.

The prescriber should be aware that these figures cannot be used to predict the incidence of adverse events in the course of usual medical practice where patient characteristics and other factors differ from those that crevalled in the clinical reside where notient characteristics and other factors differ from those that crevalled in the clinical studies. double-blind, placebo-controlled trials discontinued treatment due to adverse events compared with 11% of 235 patients

of usual medical practice where patient characteristics and other factors differ from those that prevailed in the clinical studies. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different treatments, uses, and investigations involver; the cited figures do provide the prescribing physician with some basis for estimating the relative contribution of drug and nondrug factors to the adverse-event incidence rate in the nonulation studied.

popularion studen. Treatment-mergent adverse events are listed by body system in order of decreasing incidence for MIRAPEX tablets (N=388) vs placebo (N=235), respectively. Body as a whole: asthenia (14% vs 12%), general edema (5% vs 3%), malaise (2% vs 1%), reaction unevaluable (2% vs 1%), lever (1% vs 0%). Dispative system: nausea (25% vs 18%), constipation (14% vs 0%). Anorexia (4% vs 25%), short (2% vs 0%). Metabolic and nutritional system: perpheral edema (5% vs 4%), decreased weight (2% vs 0%). Nervous system: dizziness (25% vs 24%), somnoience (22% vs 9%), insomnia (17% vs 12%).

hallucinations (9% vs 3%), confusion (4% vs 1%), amnesia (4% vs 2%), hypesthesia (3% vs 1%), dystonia (2% vs 1%), akathisia (2% vs 0%), thirking abnormatilies (2% vs 0%), decreased litido (1% vs 0%), mycdorus (1% vs 0%). **Special** series: vison abnormatilies (3% vs 0%), **Urogenital system:** impotence (2% vs 1%), Patients may have reported multiple adverse experiences during the study or at discontinuation; thus patients may be included in more than one category.

adverse experiences during the study or at discontinuation; thus, patients may be included in more than one category. Other sevents reported by 19% or more of patients with early Parkinson's disease and retardet with Mirapsex* (pramipexole dihydrochloride) tablets but reported equally or more frequently in the placebo group were infection, accidental injury, headache, pain, tremor, back pain, syncope, postural hypotension, hypertonia, depression, abdominal pain, arwiety, dispensia, fathelinence, diarrher, arsh, staxia, dry mouth, extrayarmical synorme, jet crams, subtribing, phanyngitis, sinusitis, sweating, rhintis, urinary frequency, vorniting, allegic reaction, hypertension, pruntus, hypokinesia, increased cough, gait abnormalities, urinary frequency, vorniting, allegic reaction, hypertension, pruntus, hypokinesia, increased craitine PK, nervousness, dream abnormalities, chest pain, neck pain, præstelseis, tachycardia, evrolley, vorice alteration, conjunctivitis, paralysis, accommodation abnormalities, timitus, diplopia, and taste perversions.

alteraton, conjunctivitis, paralysis, accommodation abnormalities, timitus, diphopia, and taste penersions in a fixed-dose study in early Parkinson's disease, occurrence of the following events increased in frequency as the dose increased over the range from 1.5 mg/day to 6 mg/day, postural hypotersion, nausea, constitution, somnolence, and ammesia. The frequency of these events was generally 2-fold greater than placebo for pramiperole doses greater than 3 mg/day. The incidence of somnoince with pramipexels at a dose of 1.5 mg/day was comparable to that reported for placebo. Advanced Parkinson's Disease: In the four double-blind, placebo-controlled trials of patients with advanced Parkinson's disease, the most commonly observed adverse events (5-9%) that were numerically more frequent in the group treated with MIRAPEX tablets and concomitant levodopa were postural (orthostatic) hypotension, dyskinesie, extrapyramidal syndrome, insomnia, disziness, hallucinations, accidental injury, cream abnormalities, orfusion, constipation, asthenia, somnolence, dystonia, gala abnormality, hypertonia, dry mouth, amnesia, and uninary frequency.

Approximately 12% of 260 patients with advanced Parkinson's disease who received Mirapex⁶⁰ pramipexole ditydrochloride; tablets and concomitant levodopa in the double-blind, placebo-controlled trials discontinue treatment due to adverse events compared with 16% of 264 patients who received placebo and concomitant levodopa. The events most commonly causing

tablets and concomitant levodopa in the double-blind, placebo-controlled trials disconfinued treatment due to adverse events compared with 16% of 264 patients who reselved placebo and concomitant levodopa. The events most commonly causing disconfinuation of treatment were related to the nervous system (hallucinations [2,7% on MIRAPEX tablets vs 0.4% on placebo]; discipations [1,2% on MIRAPEX tablets vs 0.4% on placebo]; advisages [1,2% on MIRAPEX tablets vs 2.5% on placebo]; confusion [1,2% on MIRAPEX tablets vs 2.5% on placebo]; and cardiovascular system (postural (orthostatic) hypotension [2,3% on MIRAPEX tablets vs 1.1% on placebo]; and cardiovascular system (postural (orthostatic) hypotension [2,3% on MIRAPEX tablets vs 1.1% on placebo]; and cardiovascular system (postural (orthostatic) hypotension [2,3% on MIRAPEX tablets vs 1.1% on placebo]. Adverse-event Incidence in Controlled Clinical Studies in Advanced Parkinson's Disease: This section lists treatment-emergent adverse events that occurred in the double-blind, placebo-controlled studies in advanced Parkinson's desages that were reported by 1% or more of patients treated with MIRAPEX tablets and were runnerically who were selected to the placeboy controlled by the patients who were selected to preserve the cardiovisticated for patients were selected.

than in the placebo group. In these studies, MIRAPEX tablets or placebo was administered to patients who were also receiving concomitant levidopa. Adverse events were usually mild or moderate in intensity. The prescriber should be aware that these figures cannot be used to predict the incidence of adverse events in the course of usual medical practice where patient characteristics and other factors differ from those that prevailed in the clinical studies. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different treatments, uses, and investigators. However, the cited figures do provide the prescribing physician with some basis for estimating the relative contribution of drug and nondrug factors to the adverse-event incidence rate in the population studied.

some basis for estimating the relative contribution of drug and nondrug factors to the adverse-event incidence rate in the population studied.

Treatment-emergent adverse sevents are listed by body system in order of decreasing incidence for MFAPEX tablets N=260, by a placeto M-2641, respectively. Body as a whole: accidental injury (17% vs 15%), asthenia (10% vs 8%), general edema (4% vs 3%), chest pain (3% vs 2%), malaise (3% vs 2%). Cardiovascular system: postural hypotension (53% vs 48%). Digestive system: constipation (10% vs 9%), dry mount (7% vs 3%). Metabolic and nutritional system: peripheral edema (2% vs 1%), increased creatine PK (1% vs 0%). Musculoscilated system: arthritis (3% vs 1%), bytempting (2% vs 0%), bursitis (2% vs 0%), myasthenia (15% vs 0%). Musculoscilated system: arthritis (3% vs 1%), bytempting (2% vs 0%), bursitis (2% vs 0%), myasthenia (15% vs 0%). Mervous system: dyskinesia (47% vs 31%), extrapramidal syndrome (28% vs 25%), inclineal (27% vs 15%), extrapramidal syndrome (28% vs 6%), confusion (10% vs 7%), somnolence (9% vs 6%), confusion (10% vs 7%), pat ahnormalities (7% vs 5%), hypertonia (7% vs 0%), steep disorders (16% vs 4%), skathisia (3% vs 2%), thinking abnormalities (3% vs 2%), paranoid reaction (2% vs 0%), hypertonia (7% vs 0%), steep disorders (16% vs 16%), dystempting abnormalities (3% vs 16%), preumonia (2% vs 0%), skathisia (3% vs 0%). Musculoscilate (3% vs 16%), preumonia (2% vs 0%), skathisia (3% vs 0%). Musculoscilate (3% vs 16%), preumonia (2% vs 0%), skathisia (3% vs 16%), preumo

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patients with RLS were treated with MRAPEX tablets for up to 12 weeks. The most commonly observed adverse events with MIRAPEX tablets in the treatment of RLS (observed in >5% of pramipexole-treated patients and at a rate at least twice that observed in placebo-treated patients) were nausea and somnolence. Occurrences of nausea and somnolence

in clinical trails were generally mild and transient.

Approximately 7% of 575 patients treated with MIRAPEX tablets during the double-blind periods of three placebo-controlled trials discontinued treatment due to adverse events compared to 5% of 223 patients who received placebo. The adverse event most commonly causing discontinuation of treatment was nausea (1%). This section lists treatment-emergent events that occurred in hirrer double-blind, placebo-controlled studies in FLS patients that were reported by 2% or more of patients treated with MIRAPEX tablets and were numerically more frequent than in the placebo group.

The prescriber should be aware that these figures cannot be used to predict the incidence of adverse events in the course of usual medical practice where patient characteristics and other factors differ from those that prevailed in the clinical studies. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different treatments, uses, and investigations. However, the cited figures do provide the prescribing physician with some basis for estimating the relative contribution of drug and nondrug factors to the adverse-

event incidence rate in the population studied.

Treatment-emergent adverse events are listed by body system in order of decreasing incidence for MIRAPEX tablets.

(N=575) vs placebo (N=223), respectively, Gastrointestinal disorders: nausaa (16% vs 5%), constipation (4% vs 1%), diarrhea (3% vs 1%), dry mouth (3% vs 1%). General disorders and administration site conditions: fatigue (9% vs

diarrhea (3% vs. 1%), dry mouth (3% vs. 1%). General disorders and administration site conditions: faligue (9% vs. 7%). Infections and infastations: influenza (3% vs. 1%). Nervous system disorders: headache (16% vs. 15%), somnolence (6% vs. 3%). Patients may have reported multiple adverse experiences during the study or at discontinuation; thus, patients may be included in more than one category. This section summarizes data for adverse events that appeared to be dose related in the 12-week fixed dose study. Dose related adverse events in a 12-week, double-blind, placebo-controlled, fixed dose study in Restless Legs Syndrome (cocurring in 5% or more of all patients in the treatment phase) are listed by body system in order of decreasing incidence for MiRAPEX (0.25 mg [N=88]; 0.5 mg [N=80]) vs. 7% [N=90]) vs. placebo (n=86), respectively. Gastrointestinal disorders: nausea (11%; 19%; 27% vs. 5%), diamhea (3%; 1%; 7% vs. 0%), dispensia (3%; 1%; 1% vs. 7%). Infections and infastations: influenza (1%; 4%; 7% vs. 1%). General disorders and administration site conditions: failgue (3%; 5%; 7% vs. 5%). Psychiatric disorders: insomna (9%; 9%; 13% vs. 9%), abnormal dreams (2%; 1%; 6% vs. 2%). Respiratory, thoracic and mediastinal disorders: nasal congestion (0%; 3%; 6% vs. 1%). Musculcoskeletal and connective tissue disorders: pain in externity (3x; 5%; 6% vs. 1%). Other events reported by 2% or more of RLS patients treated with Mirapex® (prampexole dihydrochloride) sablets but equally or more frequently in the placebo group, were verniting, necopharyngitis, back pain in extremity, dzziness; and insomnia. General

Adverse Events; Relationship to Age, Gender, and Race: Among the treatment-emergent adverse events in patients Treated with MIRAFEX tablets, haluturation appeared to exhibit a positive relationship to age in patients with Fakinson's disease. Although no gender-related differences were observed in Parkinson's disease patients, nausea and fatigue, both generally transient, were more frequently reported by female than male RLS patients. Less than 4% of patients enrolled were non-Caucasian, therefore, an evaluation of adverse events related to race is not possible.

Tion-Caicasian, therefore, an evaluation of adverse events related to race is not possible.

Other Adverse Events Discreved During Phase 2 and 3 Clinical Tirials: MRAPEX tablets have been administered to 1520 Parkinson's disease patients and to 889 RLS patients in Phase 2 and 3 clinical trials. During these trials, all adverse events were recorded by the clinical investigators using terminology of their own choosing; similar types of events were grouped into a smaller number of standardized categories using MedDRA dictionary terminology. These categories are used in the listing below. Adverse events which are not listed above but occurred on at least two occasions (one occasion if the event was serious) in the 2509 individuals exposed to MIRAPEX tablets are listed below. The reported events below are included without regard to determination of a causal relationship to MIRAPEX tablets. But the proposed of the proposed to the proposed of the proposed of the proposed of the carried tablets. By hyphadic system disorders: anemia, leukocytosis, leukopenia, lymphaderopith, lymphaderopith, thrombocythemia, lymphaderopith carried to the carried solvers anemia, leukocytosis, leukopenia, hymphaderopith, atrial fibrillation, atrovertricular block first degree, atrioventricular block second degree, bradycardia, bundle branch block, cardiac faiture, cardiac

atnal fibrillation, atroverintricular block first degree, atmoventricular block second degree, brathycardia, bundle branch block, cardiac arrest, cardiac failure, cardiac failure congestive, cardiomeggly, coronary arbry coducion, cyanosis, orbasystoles, left ventricular failure, myocardial infarction, nodal arrhythmia, sinus arrhythmia, sinus bradycardia, sinus tachycardia, suppraentricular extrasystoles, supraventricular tachycardia, ventricular fibrillation, ventricular extrasystoles, ventricular hypertrophy. Cangenital, familial and genetic disorders: atrial septal defect, congenital for malformation, spine malformation. Ear and abyninth disorders: dealness, ser pain, hearing impaired, hypoacusis, motion scieness, vestibular ataxia. Endocrine disorders: golder, hyperthyroidism, hypothyroidism. Eye disorders: amaroniss flugas, blepharoiss, pelaporana, keratitis, moular depeneration, myoqia, photopholia, retinal deatchment, retinal vascular depeneration, myoqia, photopholia, retinal deatchment, retinal vascular disorders: abdominal disorders: abdominal disorders: abdominal disorders; abdominal disorders, abdominal diso distension, aphthous stomatitis, ascites, cheilitis, colitis, colitis ulcerative, duodenal ulcer duodenal ulcer he

enterilis, eructation, fecal incontinenco, gastric ulcer, gastric ulcer hemorrhage, gastricis, gastrointestinal hemorrhage, gastroesophageal reflux disease, gingivitis, haematemesis, haematochezia, hemorrhoids, hiatus hemia, hyperchiorhydria, ilaus, inguinal hemia, intestinal obstruction, irritable bowel syndrome, esophageal spasm, esophageal stencisis, esophagial parancraatitis, periodontitis, reclab hemorrhage, reflux esophagialis, fongie edema, fongie ulcaration, totolhadric, umblical hemia. General disorders: chest discomfort, chills, death, drug withdrawal syndrome, face edema, feeling cold, feeling hot, feeling pitry, galt disturbance, impatier dheating, influenza-like iliness, irritabilisty, localized edema, edema, pitting edema, intrist. Hepatobilary disorders: billary colic, circlecystitis, cholegystitis chronic, cholethitaliss. Immune system disorders: orug hypersensitivity. Infections and Intestations: abscess, acute tonsillitis, appendicitis, bronchiotis, bronchiotis, bronchiotis, experiencia, estatis disorders circles diserticis feet feet or experience, see infection. Gillicultis funderic identical indexton. bronchopneumonia, cellutitis, cystitis, dental caries, diverticultis, ear infection, eye infection, follicultis, turgal infection, fururunce, gangrene, gastroenteritis, gingval infection, herpes simplex, herpes zoster, hordeolum, interverberal discrits, anyugitis, lobar pneumonia, nail infection, orychomycosis, oral candidasis, oratifis, sotemyrellist, otitis enterna, otitis media, paronychia, pyelonephritis, pyoderma, sepsis, skin infection, tonsillitis, tooth abscess tooth infection, upper respiratory tract paroritychia, pyelonepinitis, proderma, sepsis, skin infection, tonsillitis, tooth abscess, tooth infection, upper respiratory tract infection, under infection with infection, upper respiratory tract infection. For infection infection, the programment infection in the programment in the programment in the oseopross, polymyalija, meuriadio atinius, situlore pain, spirat izseutrinius, entolisii, teilosylivinus. Neopasins benigi, maliginari and unspecifier abdominal neoplasm, adenocacinoma, adenoma benigin, beal cell carcinoma, bladder cancer, breast cancer, treast neoplasm, chronic lymphocytic leukemia, obon cancer colorectal cancer, endometrial cancer, galibiadder cancer, gastric intestinial neoplasm, hemangioma, hepatic neoplasm, pengulic neoplasm malignant, lip and/or oral cavity cancer, lung neoplasm malignant, lung cancer metastatic, lymphoma, malignant melanoma, melanocytic naevus, metastases to lung, multiple myelloma, oral neoplasm benigin, neoplasm, neoplasm, malignant melanoma, neoplasm postate, neoplasm skin, neuroma, ovarian cancer, prostate cancer, prostatic adenoma, pseudo lymphoma, renal neoplasm, skin cancer, skin pepiloma, squamous cell carcinoma, thyroid neoplasm, uterine lelomyoma. Nervus system "disorders: anesia aktiensia, anticholitemic sondome, artisata, balance disorder brain etemes, cantilit atterius cochision." neoplasm, skin cancer, skin papilloma, squamous cell carcinoma, thyroid neoplasm, uterine leiomyoma. Nerveus system disorders: ageusia, akinesia, anticholinergic syndrome, aptrasia, balance disorder, torain edema, carotild artery occusion, carpal tunnel syndrome, cerebral aftery embolism, cerebral hemorrhage, cerebral infarction, cerebral latery occusion, carpal tunnel syndrome, organization, contribution anomal, dementia, depressed level of consciousness, disburbance in attention, dizziness postural, dysarthica dysarpabia, facial palsy, grand mal convulsion, hemiplegia, hemiplegia, heuperaethesia, hyperkinesia, hypereflexia, hyporeflexia, hyporeflexia, hyporeflexia, postomotor hyperactivity, sosiate, sadation, sensory disturbance, sleep phase rightm disturbance, sleep talking, suppor, suppor savoagal, tension headache. Psychiatric disorders: affect lability, aggression, agitation, tradyphrenia, brudsim, suicide, delirium, delusional disorder persecutory type, disorientation, dissociation, emotional distress, euphoric mood, hallucination audition, hallucination visual, initial insomnia, pinci reaction, parasomnia, personality disorder, psychotic disorder, panic reaction, parasomnia, personality disorder, psychotic disorder, restlessness, sleep valking, suicidal ideation. Bernal and urinary disorders: chromaturia, dysuria, glycosuria, hematuria, urgency, nephrotithiasis, neurogenic bladder, nocturia, oliguria, poliskuria, proteinuria, renal artery stenosis, renal colic, renal cyst, renal failure, renal impariment, urinary retention. Peproductive system and fereast disorders: amenorrhea, breast piani, dysnomen, pensam, prostatitis, sexual dysfunction, uterine hemorrhage, vaginal discharge, vaginal hemorrhage. Respiratory, thoracic and mediastriar disorders agene, agiration, asthma, choking, chronic obstructive pulmonary desease, dry throat, dysphoria, dyspona asertional, apnea, aspiration, asthma, choking, chronic obstructive pulmonary disease, dry throat, dysphonia, dyspnea exertional, epistaxis, haemoptysis, iniccus, hyperverillation, increased bronchial secretion, laryngspasm, nasal dryness, nasal polyps, obstructive airways disorder, pharyngolaryngeal pain, pileurils, pneumonia aspiration, premombrax, posthrasal drip, productive cough, pulmonary embolism, pulmonary edema, respiratory alkalosis, respiratory distress, respiratory failure, productive cough, pulmorary embolism, pulmonary ederra, respiratory alkaloss, respiratory distress, respiratory tallure, respiratory tract congestion, inhitist allergic, inhirorthea, sinus congestion, sleep apnoea syndrome, sneezing, sorting, tachypnea, wheezing. Skin and subcutaneous tissue disorders: ecne, alopecia, cold sweat, dermattis, odermattits bullous, dermattits ontact, dry skin, ecclymosis, eczema, erythema, hyperferatorss, livedor reticularis, right sweats, periorbale dedma, peterbiae, photosensitivity allergic reaction, psoriasis, purpura, rash enthematious, rash maculo-papular, rash papular, rosacea, seborrhea, seborrheic dermattis, skin burning sensation, skin discoloration, skin esfoliation, skin reticular, skin discoloration, skin discoloration, skin experimentation, skin discoloration, skin psorting skin door abnormal, skin ulcur, urticaria. Vissoular discrete since propagatily, arterioscilorasis, circulatory collapse, deep vein thrombosis, embolism, theratorna, hot flush, hypertensive criss, lymphoedema, pallor, philebitis, Raynaud's phenomenon, shock, thrombophilebitis, thrombosis, undersonated.

Falling Asleep During Activities of Daily Living: Patients treated with Mirapex® (pramipexole dihydrochioride) tablets have reported falling asleep while engaged in activities of daily Iving, including operation of a motor vehicle which sometimes resulted in accidents (see boilded WARNING).

Sometimes resulted in accorans (see obolew MANNIMO).

Post-Marketing Experience: In addition to the adverse events reported during clinical trials, the following adverse reactions have been identified during post-approval use of MIRAPEX tablets, primarily in Parkinson's disease patients. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. Decisions to include these reactions in labelling are typically based on one or more of the following factors: (1) seriousness of the reaction, (2) frequency or reporting, or (3) steregin of causal connection to pramipexole tablets. Smillar types of events were grouped into a smaller number of standardized categories using the MedDRA dictionary; abnormal behavior, abnormal dreams, accidents (includition fails) backgouts, failies well usual confidence fail briefs. (including fall), blackouts, fatigue, hallucinations (all kinds), headache, hypotension (including postural hypotension), increased eating (including binge eating, compulsive eating, and hyperphagia), libido disorders (including increased and decreased libido, and hypersexuality), pathological gambling, syncope, and weight increase.

DRUG ABUSE AND DEPENDENCE

Pramipexole is not a controlled substance. Pramipexole has not been systematically studied in animals or humans for its potential for abuse, tolerance, or physical dependence. However, in a rat model on cocaine self-administration, pramipexole had little or no affect.

OVERDOSAGE

OVERUDISAGE:
There is no clinical experience with massive overdosage. One patient, with a 10-year history of schizophrenia, took 11 mg/clay of pramipeoole for 2 days in a clinical trial to evaluate the effect of pramipeoole in schizophrenic patients. No adverse events were reported related to the increased dose. Blood pressure remained stable although pulse rate increased to between 100 and 120 beats/minute. The patient withdrew from the study at the end of week 2 due to lack of efficacy. There is no known antidote for overdosage of a dopamine agonist. If signs about a large or central nervous system stimulation are present, a phenothiazine or other butyrophenone neuroleptic agent may be indicated; the efficacy of such drugs in reversing the effects of overdosage has not been assessed. Management of overdose may require general supportive measures along with gastric lavage, intravenous fluids, and electrocardiogram monitoring.

ANIMAL TOXICOLOGY

Retinal Pathology in Albino Rats: Pathologic changes (degeneration and loss of photoreceptor cells) were observed in the retina of albino rats in the 2-year carcinogenicity study with pramipexole. These findings were first observed during week 76 and were dose dependent in animals receiving 2 or 8 mg/kg/day (plasma AUCs equal to 2.5 and 12.5 times the AUC in humans that received 1.5 mg TID). In a similar study of pgmented rats with 2 years' exposure to pramipexole at 2 or 8 mg/kg/day, retinal degeneration was not diagnosed. Animals given drug had thinning in the outer nuclear layer of the retina that was only slightly greater than that seen in control rats utilizing morphometry. Investigative studies demonstrated that pramipexole reduced the rate of disk shedding from the photoreceptor rod cells

Investigative studies demonstrated that pramipsede reduced the rate of disk shedding from the photoreceptor rod cells of the retina in albino rats, which was associated with enhanced sensitivity to the damaging effects of light. In a comparative study, degeneration and loss of photoreceptor cells occurred in albino rats after 13 weeks of treatment with 25 mg/kg/day of pramipsexie (34 times the highest clinical dose on a mg/m* basis) and constant light (100 lux) but not in pigmented rats exposed to the same cose and higher light intensities (500 lux). Thus, the retina of altino rats is considered to be uniquely sensitive to the damaging effects of pramipsexie and light. Similar changes in the retina cild not occur in a 2-year carcinogenicity study in albino mice treated with 0.3, 2, or 10 mg/kg/day (0.3, 2.2 and 11 times the highest clinical dose on a mg/m* basis). Evaluation of the retinas of monkeys given 0.1, 0.5, or 2.0 mg/kg/day of pramipsexile (0.4, 2.2, and 8.6 times the highest clinical dose on a mg/m* basis) for 12 months and minipigs given 0.3, 1 or 5 mg/kg/day of pramipsexile (1.4 times 1.4 times 1.

pramipsone (U.4, 2.2, and 6.6 times the highest direct does of a might basis for 12 montrs and minipgs given U.3, 1, or 5 mg/kg/day of pramipsone for 13 weeks also detected no changes. The potential significance of this effect in humans has not been established, but cannot be disregarded because disruption of a mechanism that is universally present in vertebrates [i.e., disk shedding) may be involved. Fibro-osseous Proliferative Lesions in Mice: An increased incidence of fibro-osseous proliferative lesions occurred at a lower rate in control animals. Similar lesions were not observed in male mice or rats and monkeys of either sex that were treated chronically with pramipexole. The significance of this lesion to trumans is not forward. humans is not known.

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Rx only MRLS-BS





Continuing Medical Education Information

Learning Objectives

As a result of participating in this activity, the attendee should be better able to:

- Describe the pathophysiology and neurobiology of Parkinson's disease and other Movement Disorders;
- Discuss the diagnostic approaches and tools available for Parkinson's disease and other Movement Disorders;
- Discuss the pharmacological and non-pharmacological treatment options available for Parkinson's disease and other Movement Disorders.

Availability of CME Credits

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the sponsorship of The *Movement* Disorder Society. The *Movement* Disorder Society is accredited by the ACCME to provide continuing medical education for physicians.

The Scientific Program of the 11th International Congress of Parkinson's Disease and Movement Disorders has been reviewed and approved for Category 1 credit toward the American Medical Association (AMA) Physician's Recognition Award. The *Movement* Disorder Society is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education to physicians.

The *Movement* Disorder Society designates this educational activity for a maximum of 37 *AMA PRA Category 1 Credits*TM. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Requesting CME Credits/Certificates of Attendance

To receive a CME Certificate or Certificate of Attendance authenticating participation in this educational activity, International Congress participants must complete and submit an online CME Request Form following their participation in the International Congress. To do so, participants may visit the CME Kiosks near the Registration Area, available on Wednesday, June 6, and Thursday, June 7. Participants may also visit the Web site from their own computer by logging on to www.movementdisorders. org/congress/congress07/cme. CME Certificates and Certificates of Attendance can be printed directly from the Kiosks onsite or your personal computer, or e-mailed to yourself from the CME Kiosks.

Participants will need their MDS ID Number and password to claim credit. This information can be found on the bottom of your registration confirmation form (found in your registration packet). It will also be e-mailed to all International Congress participants upon the completion of the 11th International Congress.

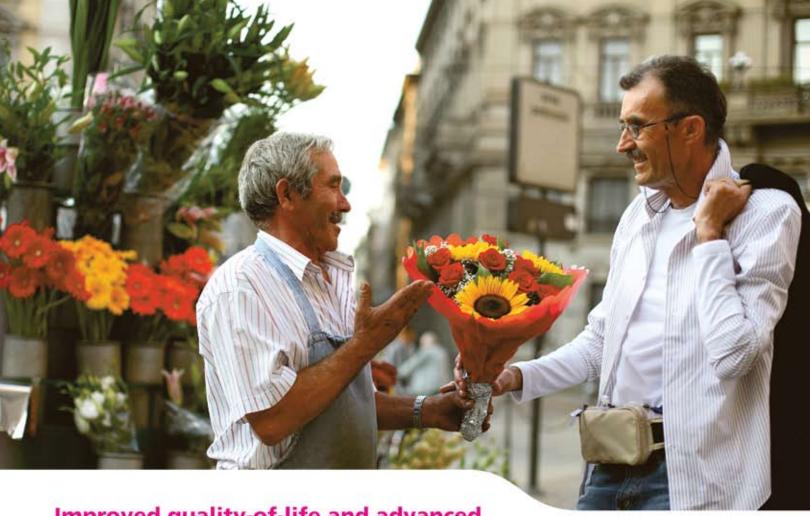
Target Audience

The target audience of the 11th International Congress of Parkinson's Disease and Movement Disorders includes clinicians, researchers, post-doctoral fellows, medical residents, medical students and other healthcare professionals with an interest in the current research and approaches for the diagnosis and treatment of Movement



14th International Congress Program-at-a-Glance

	Sunday	Mond	day	Tuesday		Wednesday		Thursday		
7:00 AM	Committee Meetings	Committee Meetings		Committee Meetings		Committee Meetings		Committee Meetings		7:00 AM
8:00 AM		oogo								8:00 AM
				Diamana Casaisa 4		Diametric Consider C		Dianami Cassian 2		
9:00 AM			Opening	Plenary Session 1		Plenary Session 2		Plenary Session 3		9:00 AM
			Symposia	C. David Marsden		Junior Award		Stanley Fahn		
10:00 AM			-	Lecture		Lectures		Lecture		10:00 AM
11:00 AM					Parallel Parallel Sessions Sessions		Plenary Session 4		11:00 AM	
11.00 AW										11.00 AW
12:00 PM										12:00 PM
				Committee Meetings	Lunch and		Lunch and	MDS	Lunch	
1:00 PM	Opening Symposia		-		Poster Session		Poster Session	Business Meeting	and Poster	1:00 PM
2 00 PM		Committee Meetings				Committee Meetings		Committee	Session	2.00 PM
2:00 PM						Meetings		Meetings		2:00 PM
3:00 PM			-	Oral Platform Presentations, Video		Oral Platform Presentations, Video		Plenary Session 5: Controversies		3:00 PM
				Sessions, I Expert Ses Skills Work	sions,	Sessions, Meet the Expert Sessions, Skills Workshop,				
4:00 PM			_	How-To-Do-It		How-To-Do-It Sessions				4:00 PM
										-
5:00 PM				Highlights Sessions	of Posters	Highlights Sessions	of Posters			5:00 PM
6:00 PM			-	Cocolono		000010110				6:00 PM
7:00 PM			-							7:00 PM
	Opening Ceremony									
8:00 PM			-				Event - midnight			8:00 PM
9:00 PM	Welcome Reception					σ.σσ μ.π.	munignt			9:00 PM
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10:00 PM										10:00 PM
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Improved quality-of-life and advanced Parkinson's Disease don't normally belong in the same sentence.

Now they can.1



Duodopa® contains 1 ml contains 20 mg levodopa and 5 mg carbidopa monohydrate.100 ml contain 2000 mg levodopa and 500 mg carbidopa monohydrate. Pharmaceutical form: intestinal gel. Therapeutic indications: Treatment of advanced levodopa-responsive Parkinson's disease with severe motor fluctuations and hyper-rdyskinesia when available combinations of Parkinson medicinal products have not given satisfactory results. Posology and method of administration: the gel should be administered with a portable pump directly into the duodenum or upper jejunum by a permanent tube via percutaneous endoscopic gastrostomy with an outer transabdominal tube and an inner intestinal tube. A temporary nasoduodenal tube is recommended to find out if the patient responds favourably to this method of treatment. Dosage: the total dose/day of Duodopa is composed of three individually adjusted doses: the morning bolus dose, the continuous maintenance dose and extra bolus doses. Morning dose: The morning bolus dose is administered by the pump to rapidly achieve the therapeutic dose level (within 10-30 minutes). The total morning dose should not exceed 15 ml (300 mg levodopa). Continuous maintenance dose The maintenance dose is adjustable in steps of 2 mg/hour (0.1 ml/hour). The continuous maintenance dose is adjusted individually, It should be kept within a range of 1-10 ml/hour (20-200 mg (evodopa/hour). Extra bolus doses: To be given as required if the patient becomes hypokinetic during the day. The extra dose should be adjusted individually. Treatment must monitored. Contraindications: hypersensitivity to levodopa, carbidopa or any of the excipients; severe liver and renal insufficiency; severe heart failure; severe cardiac arrhythmia; acute stroke. Special warnings and precautions for use: Duodopa should be administered with caution to patients with severe cardiovascular or pulmonary disease, bronchial asthma, renal, hepatic or endocrine disease, or history of peptic ulcer disease or of convulsions. In patients with a history of myocardial infarction who have residual atrial nodal or ventricular arrhythmias, cardiac function should be monitored with particular care during the period of initial dosage adjustments. All patients treated with Duodopa should be monitored carefully.. Patients with past or current psychosis and chronic wide-angle glaucome can be treated with caution. Levodopa has been associated with somnolence and episodes of sudden sleep onset in patients with Parkinson's disease and caution should therefore be exercised when driving and operating machines. Previous surgery in the upper part of the abdomen may lead to difficulty in performing gastrostomy or jejunostomy. Interaction with other medicinal products and other forms of interaction: Caution is needed in concomitant administration of Duodopa with the following medicinal products: antihypertensives, antidepressants, anticholinergics, COMT inibitors, some antipsychotics and benzodiazepines. Duodopa can be taken concomitantly with the recomi MAO inhibitor, which is selective for MAO type 8 (for instance selegiline-HC1). Concomitant use of selegiline and levodopa-carbidopa has been associated with serious orthostatic hypotension. Amantadine has a synergic effect with levodopa and may increase levodopa related adverse events. Sympathicomimetics may increase cardiovascular adverse events related to levodopa. Levodopa forms a chelate with iron in the gastrointestinal tract leading to reduced absorption of levodopa. As levodopa is competitive with certain amino acids, the absorption of levodopa can be disturbed in patients who are on a protein rich diet. The effect of administration of antacids and Duodopa on the bioavailability of levodopa has not been studied. Pregnancy: Duodopa should not be used during pregnancy unless the benefits for the mother outweigh the possible risks to the foetus. Lactation: Levodopa is excreted in the breast milk. It is unknown whether carbidopa is excreted in human breast milk. Duodopa should not be used during breast-feeding. Effects on ability to drive and use machines: Caution should be exercised when driving or using machines. Undesirable effects: Undesirable effects that occur frequently with levedopa/carbidopa are those due to the central neuropharmacological activity of dopamine. These reactions can usually be diminished by levodopa dosage reduction. The device: Complications with the devices may occur, e.g. connector leakage and dislocation of the intestinal tube. Dislocation of the intestinal tube backwards into the stomach leads to reappearance of motor fluctuations. In general, relocation of the tube can be done using a guide-wire to steer the tube into the duodenum under fluoroscopy. Occlusion, kinks, or knots of the intestinal tube lead to high pressure signals from the pump. Occlusions are usually remedied by flushing the tube with tap water; kinking, knotting, or a tube displacement may need readjustment of the tubing. The stoma usually heals without complications. However, abdominal pain, infection and leakage of gastric fluid may occur shortly after surgery; it is rarely a problem long-term. Reported complications include wound infection (the most common complication) and peritonitis. Local

infections around the stoma are usually treated conservatively with a disinfectant. Overdose: Most prominent clinical symptoms of an overdose with levodopa/ carbidopa are dystonia and dyskinesia. Blepharospasm can be an early sign of overdose. The treatment of an acute overdose of Duodopa is in general the same as that of an acute overdose of levodopa. Electrocardiographic monitoring should be used and the patient observed carefully for the development of cardiac arrhythmias; if necessary an appropriate antiarrhythmic therapy should be given. The possibility that the patient took other medicinal products together with Duodopa should be taken into consideration. To date experiences with dialysis have not been reported, therefore its value in the treatment of overdose is unknown. Shelf life: 15 weeks. Special precautions for storage: store in a refrigerator (2°C-8°C).Keep the cassette in the outer carton in order to protect from light. The marketing holder of the product is Solvay Pharmaceuticals. For further information consult www.solvaypharmaceuticals.com



¹ Nyholm D. et al. Duodenal levodopa infusion monotherapy versus oral polypharmacy in advanced Parkinson's disease. Neurology 2005; 64: 216-223.

Scientific Session Definitions

Opening Symposia: These sessions will provide the latest Skills Workshops: This clinic-based training session information regarding research and treatment options for Parkinson's disease and other Movement Disorders. Planned by a subcommittee of the Congress Scientific Program Committee, these sessions are supported through educational grants from Industry Supporters and are didactic in presentation format with time allotted for discussion. Continuing Medical Education credits are offered for these sessions.

Parallel Sessions: These concurrent sessions are designed to provide an in-depth report of the latest research findings, state-of-the-art treatment options, as well as involve a discussion of future strategies. Sessions will have evidence-based components and incorporate the "hot" issues in Parkinson's disease and other Movement Disorders.

Plenary Sessions: Designed to bring together a large audience by incorporating all International Congress attendees, these sessions will provide a broad overview of the latest clinical and basic science research findings and state-of-the-art information.

Video Sessions: Designed to provide a broad overview of related Movement Disorders, the video sessions will focus on the phenomenology covering the many different kinds of Movement Disorders affecting the population today.

Meet the Expert Sessions: These interactive sessions provide attendees the opportunity to bring their case studies analysis and discussions in a smaller setting. These sessions are designed to cover treatment and management of Movement Disorders through the discussion of relevant real-life cases brought for peer review and recommendation. Attendees will be invited to share their cases at the session.

provides an educational illustration of treatment procedures through live demonstrations utilizing patients and proper equipment to further develop practitioners' skills and knowledge within the field of treatment of Movement Disorders.

Controversies: This Plenary Session is designed to bring together a larger audience by incorporating all International Congress attendees. Content is prepared to stimulate interest and debate among a panel of pre-selected experts. Views from several angles will be addressed as discussion of pre-selected "hot" topics will be open for debate among the panelists.

Highlights of Poster Sessions: These sessions are designed to highlight the top-ranking abstracts of the International Congress. Session content will be divided into two categories for review of the abstracts: Clinical and Basic. The Chair of each category will select several interesting abstracts and obtain one or more summary slides of their abstracts for use in these sessions.

How-To-Do-It Sessions: These sessions are practical interactive sessions focusing on illustration and will incorporate what clinicians use, how to use it, and what they watch for.



Scientific Program Schedule for 2007 Istanbul Congress

Sunday, June 03, 2007

12:00 PM Lunch will be provided

Location: Halic Fover

1:00 PM to 3:00 PM

Opening Symposium: Benefits and issues in the use of long lasting dopamine agonists

Location: Anadolu Auditorium

Chair: **Howard Hurtig**

Philadelphia, PA, USA

Werner Poewe Chair:

Innsbruck, Austria

1:00 PM Long acting agonists - Is there an advantage?

> Oscar S. Gershanik Buenos Aires, Argentina

Combination therapy - Is there a role? 1:30 PM

> Wolfgang H. Oertel Marburg, Germany

Update on cardiac valvulopathy with the use of 2:00 PM

dopamine agonists

Yoshikuni Mizuno Tokyo, Japan

2:30 PM **Panel Discussion**

3:00 PM to 4:00 PM

Opening Symposium: Imaging the 2011

dopamine system

Supported by an educational grant from GE

Healthcare

Location: Marmara Room

Andrew J. Lees Chair:

London, United Kingdom

3:00 PM Imaging the dopamine system - Techniques

and methods

Joel S. Perlmutter

St. Louis, MO, USA

3:30 PM Imaging the dopamine system in the diagnosis

of Parkinson's disease

Kenneth Marek New Haven, CT, USA 4:00 PM to 5:00 PM

Opening Symposium: Issues in cognitive 2012

dvsfunction in Parkinson's disease

Supported by an educational grant from Merck

Serono

Location: Marmara Room

Chair: Fabrizio Stocchi

Roma, Italy

4:00 PM Cognitive dysfunction in Parkinson's disease

David John Burn

Newcastle upon Tyne, United Kingdom

Treatment of cognitive dysfunction and dementia 4:30 PM

in Parkinson's disease

Murat Emre

Capa Istanbul, Turkey

5:00 PM to 7:00 PM

2013 **Opening Symposium: Levodopa - Still**

Supported by an educational grant from Novartis

Pharma/Orion Pharma

Location: Anadolu Auditorium

Chair: Niall P. Quinn

London, United Kingdom

Philip D. Thompson Chair:

Adelaide, Australia

5:00 PM History of levodopa

Andrew J. Lees

London, United Kingdom

5:30 PM Levodopa - Advantages and disadvantages in the

treatment of Parkinson's disease

John G. Nutt

Portland, OR, USA

6:00 PM Role of COMT inhibitors

Eduardo Tolosa

Barcelona, Spain

New concepts in the use of levodopa 6:30 PM

> C. Warren Olanow New York, NY, USA

7:30 PM to 10:00 PM

Opening Ceremony

Location: Anadolu Auditorium **Welcome Reception** Location: Rumeli Gardens

Istanbul, Curkey

Monday, June 04, 2007

8:00 AM Breakfast will be provided

Location: Halic Foyer

9:00 AM to 10:00 AM

3015 Opening Symposium: Transdermal therapy

for Parkinson's disease

Supported by an educational grant from Schwarz

Pharma AG

Location: Marmara Room

Chair: Yoshikuni Mixuno

Tokyo, Japan 9:00 AM Patch technology in the treatment of

Parkinson's disease

Peter LeWitt

Southfield, MI, USA

9:20 AM Transdermal administration of

dopaminergic agents

Werner Poewe

Innsbruck, Austria

9:40 AM Panel Discussion

10:00 AM to 2:00 PM

3016 Opening Symposium: A decade of non-ergot

dopamine agonists

Supported by an educational grant from Boehringer

Ingelheim

Location: Anadolu Auditorium

Chair: C. Warren Olanow

New York, NY, USA

Chair: Matthew B. Stern

Philadelphia, PA, USA

10:00 AM Dopamine systems - Anatomy

Yoland Smith

Atlanta, GA, USA

10:30 AM Dopamine systems in Parkinson's disease - What

goes wrong?

Anthony A. Grace

Pittsburgh, PA, USA

11:00 AM Why are the dopamine neurons vulnerable in

Parkinson's disease

Etienne C. Hirsch

Paris, France

11:30 AM Dopamine agonists - Their development

and history

Donald B. Calne

Vancouver, BC, Canada

12:00 PM Lunch will be provided

Location: Halic Foyer

12:30 PM Dopamine agonists and the treatment of

Parkinson's disease - Motor complications and

neuroprotection

Anthony H.V. Schapira

London, United Kingdom

1:00 PM Dopamine agonists and Restless Legs Syndrome

Claudia M. Trenkwalder

Kassel, Germany

1:30 PM Dopamine agonists - Adverse effects, new

considerations, sleep, impulsive disorders,

edema, heart valve

Janis Miyasaki

Toronto, ON, Canada

2:00 PM to 3:00 PM

3017 Opening Symposium: Botulinum toxin -

Clinical indications in the treatment of

dvstonia 2007

Supported by an educational grant from

Allergan, Ltd.

Location: Marmara Room

Chair: Cynthia L. Comella

Chicago, IL, USA

2:00 PM What factors influence outcome following

botulinum toxin therapy?

Giovanni Abbruzzese

Genova, Italy

2:30 PM Safety and efficacy studies with different

botulinum toxin formulations

Daniel Tarsy

Boston, MA, USA

11th International Congress of Parkinson's Disease and Movement Disorders

Monday, June 04, 2007

3:00 PM to 4:00 PM

3018 Opening Symposium: Issues in the management of Parkinson's disease

Supported by an educational grant from Teva Pharmaceutical Industries, Ltd. And H. Lundbeck A/S

Location: Marmara Room

Chair: Anthony E. Lang *Toronto, ON, Canada*

3:00 PM Attempts to obtain neuroprotection in Parkinson's

disease

C. Warren Olanow New York, NY, USA

3:20 PM Issues to consider in the early management of

Parkinson's disease Olivier Rascol

Toulouse, France

3:40 PM Issues to consider in the management of moderate to advanced Parkinson's disease

Matthew B. Stern Philadelphia, PA, USA

4:00 PM to 6:00 PM

3019 Opening Symposium: Long acting dopamine agonists

Supported by an educational grant from GlaxoSmithKline UK Limited

Location: Anadolu Auditorium

Chair: David J. Brooks

London, United Kingdom

Chair: Ray L. Watts

Birmingham, AL, USA

4:00 PM Importance of compliance in the management of

Parkinson's disease

Donald Grosset

Glasgow, United Kingdom

4:30 PM Rationale and clinical results for a long acting

dopaminergic therapy in Parkinson's disease

Ray L. Watts

Birmingham, AL, USA

5:00 PM Long term results and future opportunities

Robert Hauser Tampa, FL, USA

5:30 PM Panel Discussion

6:00 PM to 7:00 PM Dinner will be provided

Location: Halic Foyer

7:00 PM to 8:00 PM

3020 Opening Symposium: Manipulating the

dopamine system

Supported by an educational grant from Valeant

Pharmaceuticals

Location: Anadolu Auditorium

Chair: Eldad Melamed Petah Tiqva, Israel

7:00 PM MAO-B-zydis delivery of selegiline -

Current status

Kapil D. Sethi *Augusta, GA, USA*

7:30 PM COMT - Current status of tolcapone

Wolfgang Oertel *Marburg, Germany*

8:00 PM to 9:00 PM

3021 Opening Symposium: Infusion therapies

Supported by an educational grant from Solvay

Pharmaceuticals GmbH

Location: Marmara Room

Chair: Murat Emre

Capa Istanbul, Turkey

8:00 PM CDS

Fabrizio Stocchi *Roma, Italy*

8:30 PM Duodopa

To be announced

9:00 PM to 10:00 PM

3022 Opening Symposium: Surgical therapy for

Parkinson's disease

Supported by an educational grant from Medtronic,

Inc.

Location: Anadolu Auditorium

9:30 PM

Chair: Alim L. Benabid

Grenoble, France

9:00 PM Candidates for DBS - Indications and

contraindications
Paul Krack

Grenoble, France

DBS for Parkinson's disease - Long term motor

and neurobehavioral outcomes

Anthony E. Lang Toronto, ON, Canada

Istanbul, Curkey

Tuesday, June 05, 2007

8:30 AM to 10:00 AM

4051 Plenary Session 1

Location: Anadolu Auditorium

Chair: Murat Emre

Capa Istanbul, Turkey

Chair: Anthony E. Lang

Toronto, Canada

8:30 AM Mechanisms of neurodegeneration in Parkinson's

disease

Serge Przedborski New York, NY, USA

9:00 AM Imaging of neurodegeneration in

Parkinson's disease

David J. Brooks

London, United Kingdom

9:30 AM C. David Marsden Lecture: Evolution of MSA as an entity

Location: Anadolu Auditorium

Niall P. Quinn

London, United Kingdom

10:30 AM to 12:30 PM

4101 Parallel Session: Genetics of Parkinson's

disease Location: Topkapi A

Chair. Thamas (

Chair: Thomas Gasser

Tübingen, Germany

Co-Chair: Enza Maria Valente

Rome, Italy

10:30 AM The dominant

Vincenzo Bonifati

Rotterdam, Netherlands

11:00 AM The recessive

Matthew J. Farrer

Jacksonville, FL, USA

11:30 AM The complex

Thomas Gasser

Tübingen, Germany

12:00 PM Discussion

4102 Parallel Session: Clinical trials in

Parkinson's disease

Location: Anadolu Auditorium

Chair: Christopher G. Goetz

Chicago, IL, USA

Co-Chair: To be announced

10:30 AM Outcome measures for disease progression

Joel Perlmutter

St. Louis, MO, USA

11:00 AM The placebo effect in PD trials

Christopher G. Goetz

Chicago, IL, USA

11:30 AM Clinical trials and drug development in PD -

Current needs and regulatory road blocks

Cristina Sampaio

Lisboa, Portugal

12:00 PM Discussion

4103 Parallel Session: Parkinson's disease:

Outcome measures and scales

Location: Mini-Auditorium

Chair: Pablo Martinez-Martín

Madrid, Spain

Co-Chair: Ergun Uc

Iowa City, IA, USA

10:30 AM Why should we switch from the old to the new

UPDRS?

Pablo Martinez-Martín

Madrid. Spain

11:00 AM Which imaging markers predict the progression

of Parkinson's disease?

Philippe Remy

Creteil Cedex, France

11:30 AM Non-motor scales of Parkinson's disease

K. Ray Chaudhuri

London, United Kingdom

12:00 PM Discussion

4104 Parallel Session: Movement Disorders

surgery meets psychiatry

Location: Dolmabahce A

Chair: Andres Lozano

Toronto, ON, Canada

Co-Chair: Cenk Akbostanci

Ankara, Turkey

10:30 AM Cognitive and psychiatric aspects of Parkinson's

disease surgery

Paul Krack

Grenoble, France

11:00 AM Surgery for Tourettes and OCD

Virlee Visser-Vandewalle

Maastricht, Netherlands

11:30 AM Other emerging indications

Thomas Schlaepfer

Baltimore, MD, USA

12:00 PM Discussion

Tuesday, June 05, 2007

4105 Parallel Session: What do the basal ganglia do?

Location: Halic Room

Chair: John C. Rothwell

London, United Kingdom

Co-Chair: Jose Martin Rabey

Zerifin, Israel

10:30 AM Motor functions

John C. Rothwell

London, United Kingdom

11:00 AM Cognitive functions

Peter L. Strick

Pittsburgh, PA, USA

11:30 AM Limbic functions

Jose Martin Rabey

Zerifin, Israel

12:00 PM Discussion

4106 Parallel Session: Facial Movement Disorders

Location: Dolmabahce B

Chair: Alfredo Berardelli

Roma, Italy

Co-Chair: Joseph Jankovic

Houston, TX, USA

10:30 AM Functional organization of facial movements

Robert Morecraft

Vermillion, SD, USA

11:00 AM Clinical aspects and pathophysiology of

cranial dystonia

Alfredo Berardelli

Roma, Italy

11:30 AM Non-dystonic involuntary facial movements

Philip D. Thompson

Adelaide, Australia

12:00 PM Discussion

4107 Parallel Session: Paroxysmal Movement Disorders

Location: Dolmabahce C

onnabance c

Chair: Kailash Bhatia

London, United Kingdom

Co-Chair: Mitsutoshi Yamamoto

Takamatsu, Japan

10:30 AM Ion channel disorders as a model for paroxysmal

or episodic neurologic phenomena

Dimitri M. Kullman

London, United Kingdom

11:00 AM The episodic ataxias

Kailash Bhatia

London, United Kingdom

11:30 AM The paroxysmal dyskinesias

Meltem Demirkiran

Adana, Turkey

12:00 PM Discussion

4108 Parallel Session: Current treatment of

Parkinson's disease: Motor symptoms -

Teaching Course

Location: Marmara Room

Chair: Oksana Suchowersky

Calgary, AB, Canada

Co-Chair: Fabrizio Stocchi

Roma, Italy

10:30 AM When to start treatment?

Anthony H.V. Schapira

London, United Kingdom

11:00 AM Initial treatment in mild Parkinson's disease

Oksana Suchowersky Calgary, AB, Canada

11:30 AM Treatment of moderate to severe Parkinson's

disease

Fabrizio Stocchi

Roma, Italy

12:00 PM Discussion

4109 Parallel Session: Intersection of sleep

and Movement Disorders: Evaluation and

treatment - Teaching Course

Location: Topkapi B

Chair: Cynthia L. Comella

Chicago, IL, USA

Co-Chair: Alesandro Iranzo de Riquer

Barcelona, Spain

10:30 AM REM sleep behavior disorder

Carlos Schenck

Minneapolis, MN, USA

11:00 AM Restless Leg Syndrome/PLMS

Richard Allen

Baltimore, MD, USA

11:30 AM Disorders of sleep in Parkinson's disease

Cynthia L. Comella Chicago, IL, USA

12:00 PM Discussion



Tuesday, June 05, 2007

Poster Presentations

Admission to this session is by delegate name badge. No ticket is required for admission to Poster Presentations.

Poster Session 1

Location: Lower Level, Rumeli Hall Poster Viewing: 9:00 AM - 4:00 PM Authors Present 12:30 PM - 2:30 PM Poster Numbers: 33-345 and 683

2:30 PM to 4:30 PM

4201 Skills Workshop: DBS - Basic programming challenges and target identification

Location: Mini-Auditorium

Satoshi Goto

Tokushima City, Japan Jens Volkmann Kiel, Germany Jonathan O. Dostrovsky

Jonathan O. Dostrovski Toronto, ON, Canada

4202 Skills Workshop: Botulinum toxin - Basic techniques and special applications

Location: Dolmabahce A

Raif Çakmur Izmir, Turkey Dirk W. Dressler Rostock, Germany

4301 Video Session: Movement Disorders functional surgery - Unique complications and responses

Location: Dolmabahce B

Boulos-Paul W. Bejjani Byblos, Lebanon Patricia Limousin-Dowsey London, United Kingdom

4302 Video Session: Uncommon hyperkinetic Movement Disorders

Location: Anadolu Auditorium

Kailash P. Bhatia London, United Kingdom

Kapil D. Sethi Augusta, GA, USA 4401 Meet the Expert Session: Management of Parkinson's disease: Case presentations

Location: Topkapi A

Eldad Melamed Petah Tiqva, Israel Eduardo Tolosa Barcelona, Spain

4402 Meet the Expert Session: Focal dystonias

Location: Dolmabahce C

Alberto Albanese Milano, Italy

Francisco Eduardo C. Cardoso Belo Horizonte. Brazil

4601 Oral Platform Presentations 1

Location: Marmara Room

Chair:

Chair: Daniel Tarsy

Boston, MA, USA John Hardy

Julii Haluy

Bethesda, MD, USA

4602 Oral Platform Presentations 2

Location: Halic Room

Chair: Carlo Colosimo

Rome, Italy

Chair: Erik Ch. Wolters

Amsterdam, The Netherlands

4701 How-To-Do-It Session: How to examine

Movement Disorder patients

Location: Topkapi B

Roger Barker

Cambridge, United Kingdom

Pierre Pollak Grenoble, France

5:00 PM to 6:30 PM

4901 Highlights of Poster Sessions 1-Basic

Location: Anadolu Auditorium

Chair: Rosario Luguin

Pamplona, Spain

Chair: Eldad Melamed Petah Tigva, Israel

4902 Highlights of Poster Sessions 2-Clinical

Location: Marmara Room

Chair:

Chair: Piu Chan

Beijing, China David J. Brooks

London, United Kingdom

Wednesday, June 06, 2007

8:30 AM to 10:00 AM

5051 Plenary Session: Treatment of Parkinson's disease

Location: Anadolu Auditorium

Chair: Joseph Jankovic

Houston, TX, USA

Chair: Eduardo Tolosa

Barcelona, Spain

8:30 AM Disease modification: Pipeline or pipe dream?

Olivier Rascol

Toulouse, France

8:50 AM What's new in the treatment of Parkinson's

disease?

Anthony E. Lang

Toronto, ON, Canada

9:10 AM What's next in the treatment of Parkinson's

disease?

Werner Poewe Innsbruck, Austria

9:30 AM Junior Award Lectures

Location: Anadolu Auditorium, First Floor, Istanbul Convention

and Exhibition Centre

Chairs: Joseph Jankovic

Houston, TX, USA Eduardo Tolosa Barcelona, Spain

10:30 AM to 12:30 PM

5101 Parallel Session: Update on the molecular pathogenesis and protein interactions in

Parkinson's disease

Location: Anadolu Auditorium

Chair: Valina Dawson

Baltimore, MD, USA

Co-Chair: Serge Przedborski

New York, NY, USA

10:30 AM Synuclein and protein aggregation

Leonidas Stefanis

Papagou, Greece

11:00 AM The bulky parkinsonian kinase LRRK2

Valina Dawson

Baltimore, MD, USA

11:30 AM PINK1, a mitochondrial kinase

Enza Maria Valente

Rome, Italy

12:00 PM Discussion

5102 Parallel Session: Spasticity and spastic paraplegia

Location: Dolmabahce A

Chair: Alexandra Durr

Paris, France

Co-Chair: Philip D. Thompson

Adelaide, Australia

10:30 AM Phenotypes and genotypes of Hereditary Spastic

Paraplegia (HSP)

Alexandra Durr

Paris, France

11:00 AM The role of axonal transport in the pathogenesis

of HSP

Rebeca Schüle

Tübingen, Germany

11:30 AM Update on the pathophysiology and management

of spasticity

Reiner Benecke

Rostock, Germany

12:00 PM Discussion

5103 Parallel Session: Lower body parkinsonism

and gait disorders

Location: Halic Room

Chair: Bastiaan R. Bloem

Nijmegen, Netherlands

Co-Chair: Nir Giladi

Tel Aviv, Israel

10:30 AM Motor and cognitive mechanisms of gait and

its disorders

Bastiaan R. Bloem

Niimegen, Netherlands

11:00 AM Vascular parkinsonism

Jan C.M. Zijlmans

Breda, Netherlands

11:30 AM Pathophysiology and treatment of Idopathic NPH

Richard Penn

Chicago, IL, USA

12:00 PM Discussion

5104 Parallel Session: Not to be forgotten

Movement Disorders

Location: Dolmabahce B

Chair: Hiroshi Shibasaki

Kyoto, Japan

Co-Chair: Wolfgang Oertel

Marburg, Germany

10:30 AM Immunological Movement Disorders

Gavin Giovannoni

London, United Kingdom

Istanbul, Curkey

Wednesday, June 06, 2007

11:00 AM Peripherally induced Movement Disorders

Angelo Quartarone

Messina, Italy

11:30 AM Myoclonus

Hiroshi Shibasaki

Kyoto, Japan

12:00 PM Stereotypies and catatonia

Kapil Sethi Atlanta, GA, USA

5105 Parallel Session: Update on Tauopathies

Location: Dolmabahce C

Chair: Irene Litvan

Louisville, KY, USA

Co-Chair: Andrew Lees

London, United Kingdom

10:30 AM Lessons from familial tauopathies and

genetic studies

Zbigniew K. Wszolek Jacksonville, FL, USA

11:00 AM PSP

David R. Williams

Melbourne, Australia

11:30 AM CBD

Irene Litvan

Louisville, KY, USA

12:00 PM Discussion

5106 Parallel Session: Ataxia: What's new?

Location: Mini-Auditorium

Chair: Mark Hallett

Bethesda, MD, USA

Co-Chair: Ryuji Kaji

Tokushima City, Japan

10:30 AM What does the cerebellum do?

Mark Hallett

Bethesda, MD, USA

11:00 AM Genetic ataxias

Ludger Schoels

Tübingen, Germany

11:30 AM Secondary ataxias

Thomas Klockgether

Bonn, Germany

12:00 PM Discussion

5107 Parallel Session: Movement Disorder

emergencies

Location: Topkapi A

Chair: Oscar S. Gershanik

Buenos Aires, Argentina

Co-Chair: Bhim Singhal

Mumbai, India

10:30 AM Parkinsonian emergencies

Oscar S. Gershanik

Buenos Aires, Argentina

11:00 AM Neuroleptic malignant syndrome

Sadako Kuno

Tokyo, Japan

11:30 AM Hyperkinetic emergencies

François Tison

Pessac, France

12:00 PM Discussion

5108 Parallel Session: Current management of

Parkinson's disease: Non-motor symptoms

- Teaching Course

Location: Marmara Room

Chair: David John Burn

Newcastle Upon Tyne, United Kingdom

Co-Chair: Hasmet A. Hanagasi

Kozyatagi, Turkey

10:30 AM Cognitive impairment and dementia

David John Burn

Newcastle Upon Tyne, United Kingdom

11:00 AM Depression and other psychiatric manifestations

Paolo Barone

Napoli, Italy

11:30 AM Autonomic dysfunction

Jacobus J. van Hilten

Leiden, Netherlands

12:00 PM Discussion

5109 Parallel Session: Pediatric Movement

Disorders in an office setting: Diagnosis

and treatment - Teaching Course

Location: Topkapi B

Chair: Emilio Fernandez-Alvarez

Barcelona, Spain

Co-Chair: Aikaterini Kompoliti

Chicago, IL, USA

10:30 AM An approach to the child with

Movement Disorders

Padraic James Grattan-Smith

Sydney, Australia

11:00 AM Cerebral palsy look-alike Movement Disorders

Emilio Fernandez-Alvarez

Barcelona, Spain

11:30 AM Tics and Tourette

Aikaterini Kompoliti

Chicago, IL, USA

12:00 PM Discussion

Wednesday, June 06, 2007

Poster Presentations

Admission to this session is by delegate name badge. No ticket is required for admission to Poster Presentations.

Poster Session 2

Location: Lower Level. Rumeli Hall Poster Viewing: 9:00 AM - 4:00 PM Authors Present 12:30 PM - 2:30 PM Poster Numbers: 346-662 and 788

2:30 PM to 4:30 PM

Skills Workshop: Parenteral administration 5201 of Parkinson's disease medication

Location: Mini-Auditorium

Maria Jose Marti Domenec

Barcelona, Spain Giovanni Fabbrini Rome, Italy

5202 Skills Workshop: Sleep studies in **Movement Disorders**

Location: Topkapi B

Birgit Högl Innsbruck, Austria Alex Iranzo Riquer Barcelona, Spain

Video Session: Unusual phenotypes of 5301

defined genetic diseases

Location: Halic

Emilio Fernandez-Alvarez Barcelona, Spain Marie-Jose Vidailhet Paris. France

5302 **Video Session: Psychogenic Movement** Disorders that look real and real Movement

Disorders that look psychogenic

Location: Anadolu Auditorium

Anette Schrag

London, United Kingdom John G.L. Morris Sydney, Australia

5401 **Meet the Expert Session: latrogenic Movement Disorders**

Location: Dolmabahce B

Pierre J. Blanchet Montreal, PQ, Canada William J. Weiner Baltimore, MD, USA

Meet the Expert Session: Evaluation of 5402 eve movements

Location: Dolmabahce C

R. John Leigh Cleveland, OH, USA David Zee

Ellilott City, MD, USA

5601 **Oral Platform Presentations 1**

Location: Marmara Room

Chair:

Chair:

Chair: Rivka Inzelberg

> Kfar Saba, Israel Vladimir Kostic

Belgrade, Serbia and Montenegro

5602 **Oral Platform Presentations 2**

Location: Dolmabahce A

Chair: Bluent Elibol

> Ankara, Turkey Heinz Reichmann Dresden, Germany

5701 How-To-Do-It Session: How to examine

mental function in patients with

Movement Disorders

Location: Topkapi A

Dag Aarsland Stavanger, Norway Murat Emre Capa Istanbul, Turkey

5:00 PM to 6:30 PM

Highlights of Poster Sessions 1-Clinical 5901

Location: Anadolu Auditorium

Chair: Okan Dogu Mersin, Turkey Chair: James Leverenz

Seattle, WA, USA

Highlights of Poster Sessions 2-Clinical

Location: Marmara Room

5902

Chair: Jamie Kulisevsky

Barcelona, Spain

Chair: Marcelo Merello

Buenos Aires, Argentina

Istanbul, Curkey

Thurssday, June 07, 2007

8:30 AM to 10:00 AM

6051 Plenary Session 3

Location: Anadolu Auditorium

Chair: Günther Deuschl

Kiel, Germany

Chair: Yoshikuni Mizuno

Tokyo, Japan

8:30 AM Essential Tremor

Joseph Jankovic

Houston, TX, USA

9:00 AM Huntington's disease

M. Flint Beal New York, NY, USA

9:30 AM

Stanley Fahn Lecture: DBS for Parkinson's disease 30,000 patients later. What have we learned and what remains to be done?

Pierre Pollak Grenoble, France

10:30 AM to 12:30 PM

6052 Plenary Session 4: Dystonia

Location: Anadolu Auditorium

Chair: Giovanni Abbruzzese

Genova, Italy

Chair: Andrew J. Lees

London, United Kingdom

10:30 AM Update on clinical features of sporadic and

familial dystonia

Thomas T. Warner

London, United Kingdom

11:00 AM Update on the pathogenesis: Role of plasticity in

the evolution and devolution of dystonia

Hartwig R. Siebner

Kiel, Germany

11:30 AM Update on the molecular genetics of

familial dystonia

Laurie J. Ozelius New York, NY, USA

12:00 PM Update on the management of dystonia: DBS,

intrathecal baclofen, b-toxin, and medication

Ryuji Kaji

Tokushima City, Japan

Poster Presentations

Admission to this session is by delegate name badge. No ticket

is required for admission to Poster Presentations.

Poster Session 3

Location: Lower Level, Rumeli Hall

Poster Viewing: 9:00 AM - 4:00 PM

Authors Present 12:30 PM - 2:30 PM Poster Numbers: 663 - 973

2:30 PM to 4:30 PM

6501 Controversies

Location: Anadolu Auditorium

Chair: Amos D. Korczyn

Ramat-Aviv, Israel

Chair: Serge Przedborski

New York, NY, USA

Early surgery for Parkinson's disease vs late?

2:30 PM Early

Andres M. Lozano

Toronto, ON, Canada

2:45 PM Late

Paul E. Greene

New York, NY, USA

Is there evidence for genetic/environmental interactions

in Parkinson's disease?

3:00 PM Yes

Caroline M. Tanner

Sunnyvale, CA, USA

3:15 PM No

John A. Hardy

Bethesda, MD, USA

Is Braak staging valid?

3:30 PM Yes

Howard Hurtig

Philadelphia, PA, USA

3:45 PM No

Wolfgang H. Oertel

Marburg, Germany

Does proteosome inhibition cause Parkinson's disease?

4:00 PM Yes

C. Warren Olanow

New York, NY, USA

4:15 PM No

Jeffrey Kordower

Chicago, IL, USA

Novartis and Orion are proud to be <u>Platinum Supporters</u> of The <u>Movement</u> Disorder Society's 11th International Congress of Parkinson's Disease and Movement Disorders

As supporters of research for an Optimized Levodopa Therapy, Novartis and Orion invite you to join us at booth 103



And don't miss the Opening Seminar, a comprehensive look at the past, present, and future of levodopa therapy:

Levodopa—Still the One

Date: Sunday, June 3, 2007

Time: 5:00-7:00 PM

Presentations

- History of Levodopa
- Levodopa—Advantages and Disadvantages in the Treatment of PD
- Role of COMT Inhibitors
- New Levodopas

This Opening Seminar is supported through an unrestricted education grant.





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For more information visit www.neupro.com.

- 1. Neupro Summary of Product Characteristics.
 2. Braun M et al. Poster presented at EPNS 2005.
 3. Watts et al. Neurology January 2007.

SCHWARZ



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General Information and Exhibit Hours

Please allow adequate time in your daily schedule to visit the Exhibit Hall, located in the Rumeli Building, upper floor which is directly next to the Istanbul Convention and Exhibition Centre (ICEC). The exhibition is an integral component of your International Congress experience, offering you the opportunity to speak with representatives of companies providing services or marketing products directly related to Movement Disorders. Delegates may visit the Exhibit Hall during the following hours:

Monday, June 4	9:00 a.m. to 5:00 p.m.
Tuesday, June 5	9:00 a.m. to 5:00 p.m.
Wednesday, June 6	9:00 a.m. to 5:00 p.m.
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Britannia Pharmaceuticals Ltd. is a UK-based company which markets a range of Apo-go (apomorphine Hcl) products for the treatment of disabling motor fluctuations in Parkinson's disease patients which persist, despite individually titrated treatment with oral Parkinson's disease medications.

GE Healthcare

Pollards Wood, Nightingales Lane Chalfont St. Giles, Bucks HP8 4SP

United Kingdom

Telephone: +44 1494-54-4000 Fax: +44 1494-49-8234

Web site: www.gehealthcare.com

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GE Healthcare is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging is enabling healthcare professionals around the world discover new ways to predict, diagnose and treat disease earlier. While at MDS, please visit our stand to learn more about DaTSCAN.



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United Kingdom

Telephone: +44-20-8047-5000 Web site: www.gsk.com

Booth #: 102

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Telephone: +33-1-44-30-43-15 Fax: +33-1-44-30-42-00 Web site: www.ipsen.com

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Ottiliavej 9,

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Denmark

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USA

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Medtronic is the global leader in medical technology – alleviating pain, restoring health and extending life for millions of people around the world. Activa® Deep Brain Stimulation Therapy, exhibited, has been used in more than 35,000 patients worldwide for the treatment of the three most common movement disorders: Parkinson's disease, essential tremor and dystonia.

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Eckenheimer Landstrase 100

Frankfurt 60318

Germany

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Booth #: 116

Product Name: Xeomin

Active substance: Clostridium Botulinum neurotoxin Type A (150 KD), free of complexing proteins 100 LD $_{50}$ units per

via

Noldus Information Technology b.v.

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Fax: +31-317-424496 Web site: www.noldus.com

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Novartis Pharma AG

Lichtstr. 35 Basel CH-4002 Switzerland

Telephone: + 41-61-324-1111 Fax: + 41-61-324-6652 Web site: www.novartis.com

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Novartis AG is a world leader in pharmaceuticals and consumer health, headquartered in Basel, Switzerland. Novartis researches, develops, manufacturers and markets leading innovative prescription drugs used to treat a number of diseases and conditions and has been a leader in the Neuroscience area for more than 50 years.

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Orion Corporation Orion Pharma

Orionintie 1 FI-02101 Espoo

Finland

Telephone: + 358-10-4261 Fax: +358-10-426-3815 Web site: www.orion.fi/english

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235 East 42nd Street New York, NY 10017

USA

Telephone: +1 212-733-2323 Web site: www.pfizer.com

Booth #: 104

Cabaser is approved for the symptomatic treatment of Parkinson's disease (PD).

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Schwarz Pharma AG

Alfred-Nobel-Strasse 10

Monheim 40789

Germany

Telephone: +49 2173-48-0 Fax: +49 2173-48-1608

Web site: www.schwarzpharma.com

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SCHWARZ PHARMA AG (Monheim, Germany) is a publicly traded company, which develops and markets innovative drugs with the focus on Central Nervous System (CNS) as well as cardiovascular and gastro-intestinal diseases. These drugs are manufactured and marketed by SCHWARZ PHARMA affiliates in Europe, USA and Asia.

Solstice Neurosciences, Inc.

40 General Warren Blvd., Suite 160

Malvern, PA 19355

USA

Telephone: +1 267-620-8000

Fax: +1 267-620-8190

Web site: http://www.solsticeneuro.com/

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Solvay Pharmaceuticals GmbH

Hans-Böckler-Allee 20 Hannover 30173

Telephone: +49 511-857-0 Fax: +49 511-857-2294

Web site: www.solvaypharmaceuticals.com

Booth #: 111

Germany

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Teva Pharmaceutical Industries Ltd.

P.O. Box 3190 Petah Tiqva 49131

Israel

Telephone: + 972-3-926-7267 Fax: + 972-3-923-4050 Web site: www.tevapharm.com

Booth #: 105

Azilect – a new treatment for Parkinson's disease both as monotherapy in early disease and as adjunctive therapy in more advanced disease. Several large clinical trials demonstrated Azilect's high efficacy, together with good safety profile and high tolerability including in elderly patients and convenient dosing – once daily, no titration.

The Movement Disorder Society

International Secretariat

555 East Wells Street, Suite 1100 Milwaukee, WI 53202-3823

USA

Telephone: +1 414-276-2145 Fax: +1 414-276-3349 www.movementdisorders.org

Booth: Located in the Istanbul Convention and Exhibition

Centre (main building)

The *Movement* Disorder Society is an international, professional society of clinicians, scientists, and other healthcare professionals, who are interested in Parkinson's disease, related neurodegenerative and neurodevelopmental disorders, hyperkinetic Movement Disorders, and abnormalities in muscle tone and motor control. Visit our exhibit booth to learn more about MDS and membership opportunities.

Valeant Pharmaceuticals International

One Enterprise Aliso Viejo, CA 92656

USA

Telephone: +1 949-461-6000 Fax: +1 949-461-6609 Web site: www.valeant.com

Booth #: 107

Valeant Pharmaceuticals International (NYSE: VRX) is a global specialty pharmaceutical company that develops, manufactures and markets a broad range of pharmaceutical products primarily in the areas of neurology, infectious disease and dermatology. More information about Valeant can be found at www.valeant.com.

Vernalis Pharmaceuticals Inc. 1140 Headquarters Plaza 2nd Floor, West Tower Morristown, NJ 07960 USA

Telephone: +1 973-867-5555 Fax: +1 973-867-5524 Web site: www.vernalis.com

Booth #: 120

Vernalis is a specialty bio-pharmaceutical company with two marketed products: Apokyn® (apomorphine hydro-chloride injection) and Frova® (frovatriptan). The company has a broad development pipeline focused on neurology and central nervous system disorders.

Wiley-Blackwell

111 River Street

Hoboken, NJ 07030 USA Telephone: +1 201-748-6000

Fax: +1 201-748-6088 Web site: www.wiley.com

Booth #: 122

Wiley-Blackwell is proud to publish *Movement Disorders* on behalf of The *Movement* Disorder Society. Wiley-Blackwell (formed in 2007) combines two of the most respected publishers in the world: Blackwell and John Wiley & Sons. Wiley-Blackwell's portfolio now includes 1,250 scholarly journals, many society-owned, and numerous books with global appeal.

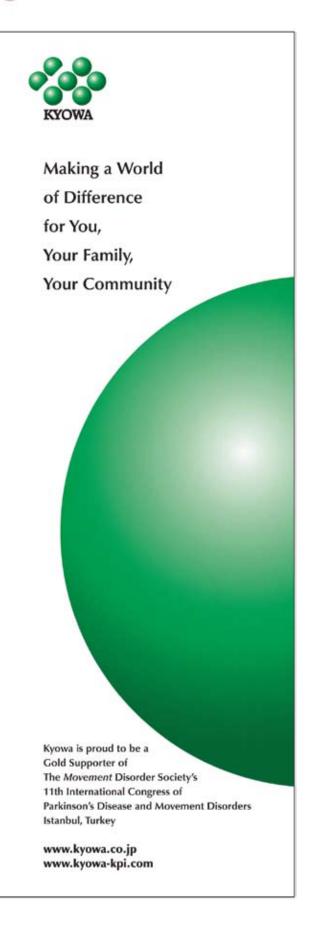
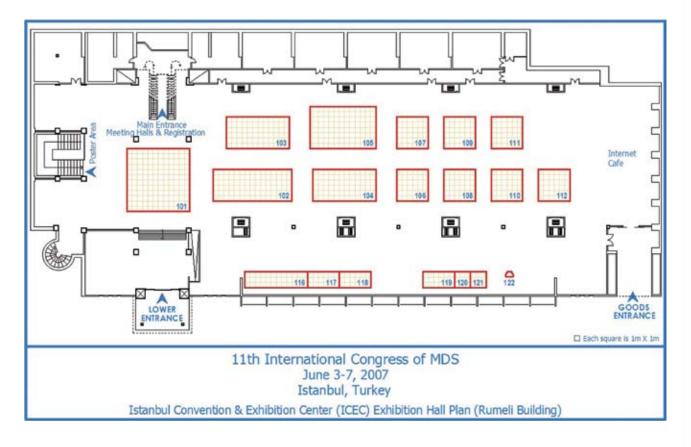
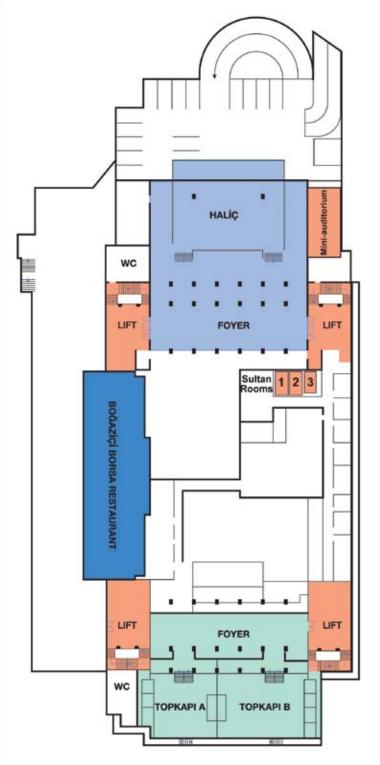


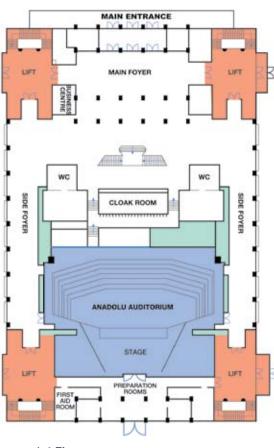


Exhibit Hall Floor Plan



Istanbul Convention and Exhibition Centre Floor Plans



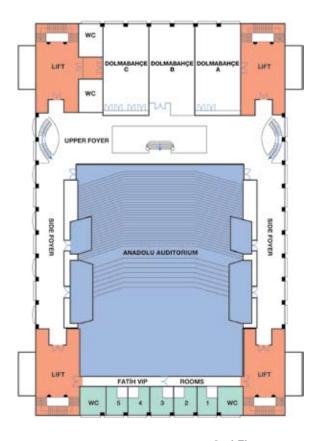


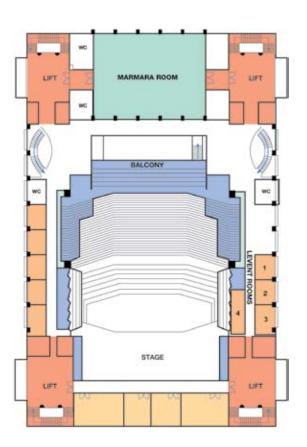
1st Floor

Ground Floor



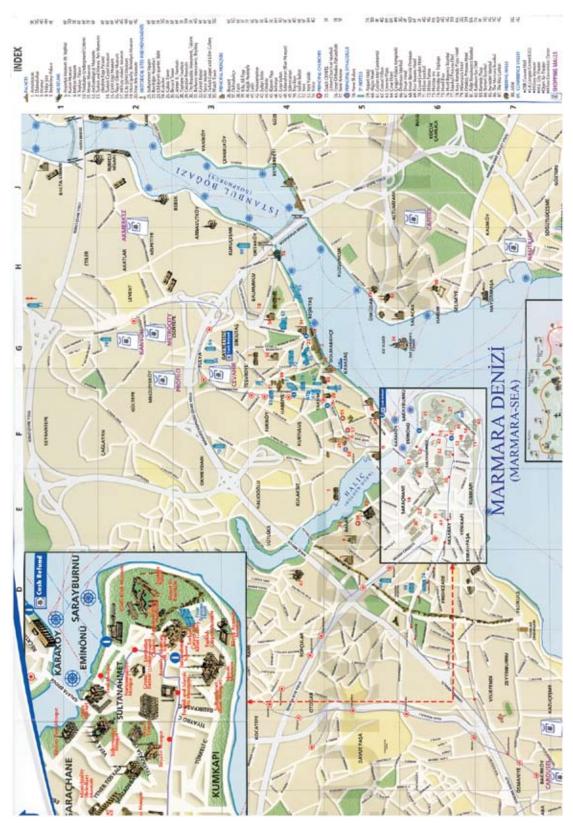
Istanbul Convention and Exhibition Centre Floor Plans





2nd Floor 3rd Floor

Map of Istanbul





REQUIP (ropinirale) Prescribing Information

Presentation ReQuip Tablets, Pt. 10592/0085-0089, each containing ropinirale hydrochloride equivalent to either 0.25, 0.5, 1, 2 or 5 mg ropinirale. Starter Pack (105 tablets), £40.10. Follow On Pack (147 tablets), £74.40; 1 mg tablets - 84 tablets, £47.26; 2 mg tablets - 84 tablets, £94.53; 5 mg tablets - 84 tablets, £163.27. Indications Treatment of idiopathic Parkinson's disease. May be used alone (without L-dopa) or in addition to L-dopa to control "on-off fluctuations and permit a reduction in the L-dopa dose, Dosage Adults: Three times a day, with meals. Titrate dose against efficacy and tolerability. Initial dose for 1st week should be 0.25 mg t.i.d., 2nd week 0.5 mg t.i.d., 3rd week 0.75 mg t.i.d., 4th week 1 mg t.i.d. After initial thation, dose may be increased in weekly increments of up to 3mg/day until acceptable therapeutic response established. If using Fallow On Pack, the dose for 5th week is 1.5mg t.i.d., 6th week 2.0mg t.i.d., 7th week 2.5mg t.i.d., 8th week 3.0mg t.i.d. Do not exceed 24 mg/day. Concurrent Edopa dose may be reduced gradually by around 20%. When switching from another dopamine agonist follow manufacturer's guidance on discontinuation. Discontinue ropinirole by reducing doses over one week. Renal or hepatic impairment: No change needed in mild to moderate renal impairment. Not studied in severe renal or hepatic impairment administration not recommended. Elderly: Titrate dose in normal manner. Children: Parkinson's disease does not occur in children - do not give to children. Contra-indications Hypersensitivity to rapinirale, pregnancy, lactation and women of child-bearing potential unless using adequate contraception. Precautions Caution advised in patients with severe cardiovascular disease and when co-administering with anti-hypertensive and anti-arrhythmic agents. Patients with major psychotic disorders should be treated with dopamine agonists only if potential benefits outweigh the risks. Ropinirale has been associated with somnolence and episodes of sudden sleep onset. Patients must be informed of this and advised to exercise caution while driving or operating machines during treatment with rapinitale. Patients who have experienced sampolarice and/or an

episode of sudden sleep onset must tehain from driving or operating machines. Caution advised when taking other sedating medication or alcohol in combination with reginitale. If sudden onset of sleep occurs in patients, consider dose reduction or drug withdrawal. Drug interactions Neurolegiics and other centrally active dopamine antagonists may diminish effectiveness of ropinirole avoid concomitant use. No dosage adjustment needed when co-administering with Ldapa or damperidane. No interaction seen with other Parkinson's disease. drugs but tale care when adding reprintrale to treatment regimen. Other department agenists may be used with caution. In a study with concurrent digarin, no interaction seen which would require dasage adjustment. Metabolised by cytochrome P450 enzyme CYP1A2 therefore potential for interaction with substrates or inhibitors of this enzyme - rapinitale dose may need adjustment when these drugs are introduced or withdrawn. Increased plasma levels of ropinitole have been observed with high cestragen dases. In patients on hormone replacement therapy (HRT) repinitale treatment may be initiated in normal manner, however, if HRT is stopped or introduced during rapinirale treatment, dosage adjustment may be required. No information on interaction with alcohol - as with other centrally active medications, caution patients against taking rapinirale with alcohol. Pregnancy and loctation Do not use during pregnancy - based on results of animal studies. There have been no studies of ropinitale in human pregnancy. Do not use in nursing mothers as lactation may be inhibited. Adverse reactions in early therapy: nausea, somnolence, leg cedema, abdominal pain, vomiting and syncope. In adjunct therapy: dyskinesia, nausea, hallucinations and confusion. Postural hypotension, which is commonly associated with dopamine agenists, and decreases in systolic blood pressu have been noted; symptomatic hypotension and bradycardia, occasionally severe, may occur. As with another dopamine agonist, extreme somnolence and/or sudden onset of sleep have been reported rarely, occasionally when driving (see "Precautions" and "Effects on ability to drive and use machines"). Effects on ability to drive and use machines Patients being treated with rapinitale

and presenting with samnolence and/or sudden sleep episodes must be informed to refrain from driving or engaging in activities where impaired alertness may put themselves or others at risk of serious injury or death (e.g. operating machines) until such recurrent episodes and somnolence have resolved.

Overdosage No incidences reported. Symptoms of overdose likely to be related to dopaminergic activity.

POM

Marketing Authorisation Holder SmithKline Beecham plc t/a GlaxoSmithKline, Stockley Park West, Uxbridge, Middlesex UB11 1BT.

Further information is available from: Customer Contact Centre, GlaxoSmithKine, Stockley Park West, Urbridge, Middlesex UB11 1BT; customercontactuk@gsk.com; Freephone 0800 221 441. Prescribing information last revised: November 2005.

In order to continually monitor and evaluate the safety of ReQuip, we encourage healthcare professionals to report adverse events, pregnancy, overdose and unexpected benefits to GlaxoSmithKline on 0800 221 441. Please consult the Summary of Product Characteristics for full details on the safety profile of ReQuip. Information about adverse event reporting can also be found at www.yellow.card.gov.uk.

Date of preparation: February 2007 RFQ/FPA/07/29728/1



Junior Awards

Two Junior Awards will be presented for outstanding abstracts of The *Movement* Disorder Society's 11th International Congress of Parkinson's Disease and Movement Disorders. One award will be presented for excellence in clinical research, and another for excellence in basic research. Eligible individuals for the Junior Awards must be forty (40) years of age or less, or within five years of completion of training and the first author on the abstract. The *Movement* Disorder Society's Awards Committee selects the two award recipients from those who applied. Please refer to the flyer highlighting the 2007 Junior Awards recipients and their topics, in your registration bag.

WEDNESDAY, JUNE 6, 2007

9:30 a.m.-10:30 a.m.

4103 Junior Award Lectures

Location: Anadolu Auditorium, First Floor, Istanbul

Convention and Exhibition Centre

Chairs: Joseph Jankovic

Houston, TX, USA Eduardo Tolosa Barcelona, Spain

Social Events

SUNDAY, JUNE 3, 2007

Opening Ceremony and Welcome Reception 7:30 p.m. to 10:00 p.m.

Location: Istanbul Convention and Exhibition Centre and the Rumeli Gardens

All International Congress attendees are warmly invited to meet friends and colleagues during the traditional International Congress Opening Ceremony, which will feature a unique cultural dance show on Sunday evening, June 3, at the Istanbul Convention and Exhibition Centre. A Welcome Reception, accompanied by food, beverage and entertainment, in the Rumeli Gardens will directly follow the Opening Ceremony. Each paid registrant is able to bring one guest to the Welcome Reception only. Guest badges will be available in the registration packet onsite for those who requested one.

WEDNESDAY, JUNE 6, 2007

Gala Event

8:00 p.m. to midnight

Location: Ciragan Palace

All participants of the 11th International Congress are invited to attend the Gala Event at the spectacular Ciragan Palace located by the shores of the Bosphorus for an evening of cultural performances, entertainment and Turkish cuisine. Transportation will be departing from the Hilton, Hyatt, and Istanbul Convention and Exhibition Centre at 7:00 p.m. and suggested attire is smart casual. The cost for one Gala Event ticket is \$100 USD. A ticket is required for entrance to the Gala Event and will be enclosed in delegates' registration materials. If you have not already purchased a Gala Event ticket and would like to do so, please visit the Registration Desk to inquire about availability.



Satellite Symposia

Sunday, June 3, 2007 11:30 a.m.-1:00 p.m. Restorative Neurology Facts or Fiction? For further information please contact:

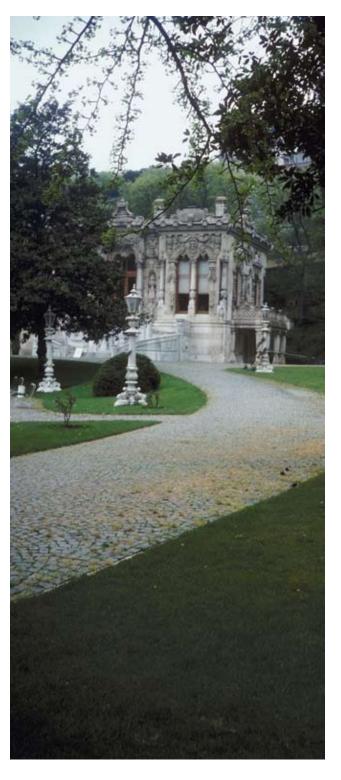
Ann Marie Janson Lang Phone: +468 58583733 Fax: +468 7116659

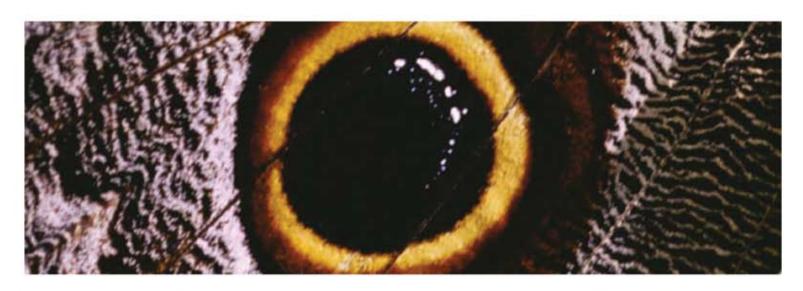
am.janson-lang@mednut.ki.se http://www.swemodis.se



Monday, June 4, 2007 2:30 p.m.-4:30 p.m. Parkinson's disease Nurse Specialist-a British Perspective, Four Nations One Aim For further information please contact: Mrs. Linda Caie

Phone: + 01224 556854 Linda.caie@nhs.net



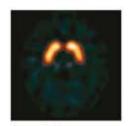


Bird of prey or butterfly?

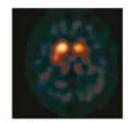
DaTSCAN

Completes the clinical picture





Essential tremor



Early stage parkinsonian syndrome

DaTSCAN is approved for use in the European Union but not in USA or Japan





PRESCRIBING INFORMATION DoTSCAN™ influpone (1271)

Please refer to full national Summary of Product Characteristics (SPC) before prescribing. Indications and approvals may vary in different countries, Further information available on request. PRESENTATION Viols containing 185 MBq or 370 MBq influpane (1416) at reference time. INDICATIONS Detecting loss of functional departmengic neuron terminals in the striatum. I) in patients with clinically uncertain Parkinsonian Syndromes in order to help differentiate Essential Tremor from Parkinsonian Syndromes related to idiopathic Parkinson's Disease IPDI, Multiple System Atrophy IMSAI, Progressive Supranuclear Palsy (PSP), DaTSCAN is unable to discriminate between PD, MSA and PSP, iil to help differentiate probable dementia with Lewy bodies IDLBI from Alzheimer's disease. DaTSCAN is unable to discriminate between DLB and Parkinson's disease dementia. DOSAGE AND METHOD OF ADMINISTRATION DaTSCAN is a 5% (WV) ethanolic solution for introvenous injection and should be used without dilution. Clinical efficiency has been demonstrated across the range of 111-185 MBq; do not use outside this range. Appropriate thyroid blocking treatment must be given prior to and post injection of DaTSCAN. SPECT imaging should take place 3-6 hours after injection of DaTSCAN. DaTSCAN is not recommended for use in children or adolescents. For use in patients referred by physicians experienced in the management of movement disorders/dementia CONTRAINDICATIONS Pregnancy and in patients with hypersensitivity to iodide

or any of the excipients. WARNINGS AND PRECAUTIONS Radiopharmaceuticals should only be used by qualified personnel with appropriate government. authorisation and should be prepared using aseptic and radialogical precautions. DaTSCAN is not recommended in moderate to severe renal or hepatic impairment. INTERACTIONS Consider current medication. Medicines that bind to the dopamine transporter may interfere with diagnosis; these include amfetarrine, benzatropine, buproprion, cocoine, mazindal, methylphenidate, phentermine and sertraline. Drugs shown during clinical trials not to interfere with DaTSCAN imaging include amontadine, trihewyphenidyl, budioine, levodopo, metoprolol, primidone, propranolol and selegiline. Dopamine aganists and antagonists acting on the postsynaptic dopamine receptors are not expected to interfere with DaTSCAN imaging and can therefore be continued if desired. PREGNANCY AND LACTATION Contraindicated in pregnancy. Information should be sought about pregnancy from women of child bearing potential. A warran who has missed her period should be assumed to be pregnant. If administration to a breast feeding woman is necessary, substitute formula feeding for breast feeding. UNDESTRABLE EFFECTS No serious adverse effects have been reported. Common side effects include headache, vertigo and increased appetite and formication. Exposure to ionising radiation is linked with concer induction and a potential for hereditary defects and must be kept as low as reasonably achievable. Intense pain on injection has been reported

uncommonly following administration into small veins. DOSIMETRY Effective date from 185 MBq a 4.35 mSx. OVERDOSE Encourage frequent micruhization and defectation. MARKETING AUTHORISATION HOLDER GE Healthcare Limited. Amersham Place, Little Chalfont, Backinghamshire, HP7 9NA, UK. CLASSIFICATION FOR SUPPLY Subject to medical prescription. MARKETING AUTHORISATION NUMBERS EU/1/00/115/001 and EU/1/00/135/002. DATE OF REVISION OF TEXT 14 November 2006. UK Price 185Mb; E390.50 - 165Mbq.

Information about adverse event reporting can be found at www.yellowcord.gov.uk.

Adverse events should also be reported to GE Healthcare.

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04-2007 JB2646/MB002819/05 INT'L ENG



Oral Platform Presentations 4601

Tuesday, June 5, 2007 - 2:30 PM - 4:30 PM

Room: Marmara Room

Chair: John Hardy, Bethesda, MD, USA

Daniel Tarsy, Boston, MA, USA

Restless legs syndrome and other movement disorders

- Evidence for linkage of Restless legs syndrome to chromosome 9p: Are there two distinct loci? K. Lohmann-Hedrich, A. Ziegler, A. Neumann, A. Kleensang, T. Lohnau, H. Muhle, A. Djarmati, I.R. Konig, P.L. Kramer, U. Stephani, C. Klein (Luebeck, Germany)
- RLS patients can also develop compulsions on dopaminergic agonists
 E. Pourcher, H. Cohen (Quebec, Quebec, Canada)
- 3 Transcranial sonography in Restless legs syndrome
 J. Godau, A.-K. Wevers, A. Gaenslen, A. Di Santo,
 E. Caliskan-Erle, T. Gasser, D. Berg (Tübingen,
 Germany)
- 4 Original clinical and biological findings in 3 new mutations of the senataxin gene M. Anheim, M.C. Fleury, J. Franques, J.-P. Delaunoy, M. Moreira, M. Koenig, C. Tranchant (Strasbourg, France)
- Silver syndrome variant of hereditary spastic paraplegia: Identification of a novel locus
 A. Orlacchio, C. Patrono, F. Gaudiello, V. Moschella,
 A. Borreca, A. Orlacchio, R. Floris, G. Bernardi, T. Kawarai (Rome, Italy)
- 6 Spectrum of gait impairments in presymptomatic and symptomatic Huntington's disease: Cross sectional data
 - A.K. Rao, L.M. Muratori, E.D. Louis, C.B. Moskowitz, K.S. Marder (New York, New York, USA)
- Frequency of dementia in FMR1 premutation carriers
 M. Sevin, Z. Kutalik, P. Damier, M. Vercelletto, P. Renou, P. Boisseau, S. Bergmann, J.-M. Rival, S. Jacquemont (Nantes, France)
- 8 Intrafusal effects of botulinum toxin injection in patients with upper motor neuron syndrome C. Trompetto, G. Francavilla, C. Ogliastro, L. Avanzino, M. Bove, A. Berardelli, G. Abbruzzese (Genova, Italy)

Oral Platform Presentations 4602

Tuesday, June 5, 2007 - 2:30 PM - 4:30 PM

Room: Halic Room

Chairs: Carlo Colosimo, Rome, Italy

Erik Ch. Wolters, Amsterdam, The Netherlands

Atypical parkinsonism and Dystonia

- 9 Effect of disease duration on the pattern of cerebral glucose metabolism in patients with multiple system atrophy J.H. Lee, C.H. Lyoo, S.H. Oh, M.S. Lee (Seoul, Republic of Korea)
- Neuroprotection and Natural History in Parkinson Plus Syndromes (NNIPPS): Results of a randomized placebo-controlled trial of riluzole in PSP and MSA P.N. Leigh, A. Ludolph, Y. Agid, G. Bensimon, The NNIPPS Consortium (London, United Kingdom)
- Degeneration of cardiac sympathetic nerve can occur in multiple system atrophy
 Orimo, T. Kanazawa, A. Nakamura, T. Uchihara, F. Mori, A. Kakita, K. Wakabayashi, H. Takahashi (Tokyo, Japan)
- 12 Correlates of side-to-side symmetry of motor manifestations in Parkinsonian disorders R.P. Munhoz, H.A. Teive, L.C. Werneck (Curitiba, PR, Brazil)
- The dystonia-associated protein torsinA modulates synaptic vesicle recycling
 A. Granata, G. Schiavo, T.T. Warner (London, United Kingdom)
- 14 Pallidal deep brain stimulation improves quality of life in segmental and generalized dystonia: Results from a prospective, randomized shamcontrolled trial
 - J. Mueller, I.-M. Skogseid, R. Benecke, W. Poewe, G. Deuschl, A. Kupsch, T. Trottenberg, J. Volkmann (Innsbruck, Austria) M. Peller, K. Zeuner, M. Weiss, A. Knutzen, M. Hallett, G. Deuschl, H.R. Siebner (Kiel, Schleswig-Holstein, Germany)
- Clinical and electrophysiological phenotype of myoclonus dystonia due to epsilon sarcoglycan gene mutations E. Apartis, E. Roze, F. Clot, I. Guyon-Marechal, S. Thobois, C. Tranchant, P. Damier, Y. Beaugendre, A. Durr, M. Vidailhet (Paris, France)

Oral Platform Presentations 5601

Wednesday, June 6, 2007 - 2:30 PM - 4:30 PM

Room: Marmara Room

Chairs: Vladimir Kostic, Belgrade, Serbia/Montenegro

Rivka Inzelberg, Kfar Saba, Israel

Parkinson's disease

- 17 The physiological effects of pedunculopontine stimulation in patients with Parkinson's disease S. Tisch, J.C. Rothwell, V. Di Lazzaro, M. Dileone, F. Capone, P. Profice, A. Insola, P. Mazzone (London, United Kingdom)
- Clinimetric testing of the new UPDRS (MDS-UPDRS) vs. original version
 C.G. Goetz, B.C. Tilley, S. Shaftman, G.T. Stebbins,
 S. Fahn, P. Martinez-Martín, W. Poewe, C. Sampaio,
 M.B. Stern, R. Dodel, B. Dubois, R. Holloway, J.
 Jankovic, J. Kulisevsky, A.E. Lang, A. Lees, S.
 Leurgans, P.A. LeWitt, D. Nyenhuis, C.W. Olanow, O.
 Rascol, A. Schrag, J. Teresi, J.J. van Hilten (Chicago,
 Illinois, USA)
- 19 The 2 adrenergic antagonist fipamezole prolongs the anti-parkinsonian actions of L-DOPA in the MPTP-lesioned macaque T.H. Johnston, J.-M. Savola, S.H. Fox, J.M. Brotchie (Toronto, Ontario, Canada)
- Topography of -synuclein pathology in Parkinson's disease
 M.E. Kalaitzakis, M.B. Graeber, S.M. Gentleman, R.K.B. Pearce (London, United Kingdom)
- 21 Prospective comparison of weight gain and energy intake after subthalamic (STN), pallidal (GPi) and thalamic (VIM) deep brain stimulation (DBS) in Parkinson's disease
 - S. Blanchard, G. Drillet, P. Sauleau, S. Drapier, A.-S. Gillioz, T. Rouaud, J. Peron, M. Verin (Rennes, France)
- 22 Staging of lewy-related pathology in a communitybased sample of dementia: Evidence for diseasedependent anatomic distribution J.B. Leverenz, E.B. Larson, D. Vavrek, E.R. Peskind, J.D. Bowen, W.C. McCormick, L. Teri, W.A. Kukull, T.J. Montine, D.W. Tsuang (Seattle, Washington, USA)
- Neuropsychological and psychiatric sequelae of deep-brain stimulation for Parkinson's disease a randomized controlled multicenter study
 C. Daniels, K. Witt, J. Reiff, P. Krack, M. Krause, K. Boetzel, A. Schnitzler, L. Wojtecki, R. Hilker, E. Kalbe, G.H. Schneider, A. Kupsch, G. Deuschl, for the German Parkinson Study Group, Neurostimulation Section (Kiel, Germany)

Neuropathological characteristics of Parkinson's disease associated with LRRK2 I2020T (Sagamihara family)
 S. Ujiie, Y. Ogino, M. Ogino, T. Uchihara, S. Yagishita, K. Hasegawa, H. Kowa, F. Sakai (Sagamihara, Kanagawa, Japan)

Oral Platform Presentations 5602

Wednesday, June 6, 2007 - 2:30 PM - 4:30 PM

Room: Dolmabahce A

Chairs: Bulent Elibol, Ankara, Turkey

Heinz Reichmann, Dresden, Germany

Clinical Electrophysiology and Imaging

- 25 Probing a heterosynaptic manifestation of homeostatic plasticity in the intact human motor cortex
 - M. Poetter, S. Fischer, G. Deuschl, A. Quartarone, H. Siebner (Kiel, Germany)
- 26 Impaired temporal preparation in Parkinson's disease: Slow brain potential and oscillatory manifestations
 - P. Praamstra, P. Pope (Birmingham, United Kingdom)
- 27 Simultaneous EMG-fMRI; relating movement and brain activity in tremor
 A.-F. van Rootselaar, N.M. Maurits, R. Renken,

J.H.T.M. Koelman, J.M. Hoogduin, K.L. Leenders, M.A.J. Tiissen (Amsterdam, Netherlands)

- Change in water diffusion MRI following repetitive transcranial magnetic stimulation
 M. Abe, T. Mima, N. Sawamoto, S. Urayama, T. Aso, H. Fukuyama (Kyoto, Japan)
- 29 White matter changes in the diagnosis of presymptomatic neurodegenerative diseases: The example of Huntington's disease S. Kloppel, B. Draganski, S.J. Tabrizi, R.S.J.

Frackowiak (London, United Kingdom)

- 30 Hyposmia, midbrain hyperechogenity and Parkinson's disease: Findings in a populationbased study
 - K. Seppi, H. Stockner, S. Kiechl, J. Schwaiger, M. Sawires, J. Willeit, W. Poewe (Innsbruck, Austria)
- 31 Firing patterns of STN in early stage PD patients implanted with DBS

C.H. Harrison, N.D. Manus, C.E. Gill, C.C. Kao, M.S. Remple, T.L. Davis, J.S. Neimat, P.E. Konrad, P.D. Charles (Nashville, Tennessee, USA)



32 Connections between premotor and motor cortex in healthy subjects and in patients with Parkinson's disease
A. Suppa, M. Bologna, C. Lorenzano, F. Gilio, M. Napoletani, A. Berardelli (Rome, Italy)

CME and Certificates of Attendance



To claim CME Credits or to receive a Certificate of Attendance for participation in this educational activity, International Congress participants must complete and submit an online CME Request Form following their participation in the International Congress. This can be done onsite at the CME Kiosk, or online from your own computer.

CME Kiosk Hours

7:00 AM – 7:00 PM Wednesday, June 6 7:00 AM – 6:00 PM Thursday, June 7 The CME Kiosk is located in the Main Lobby behind the registration area, near the stairs.

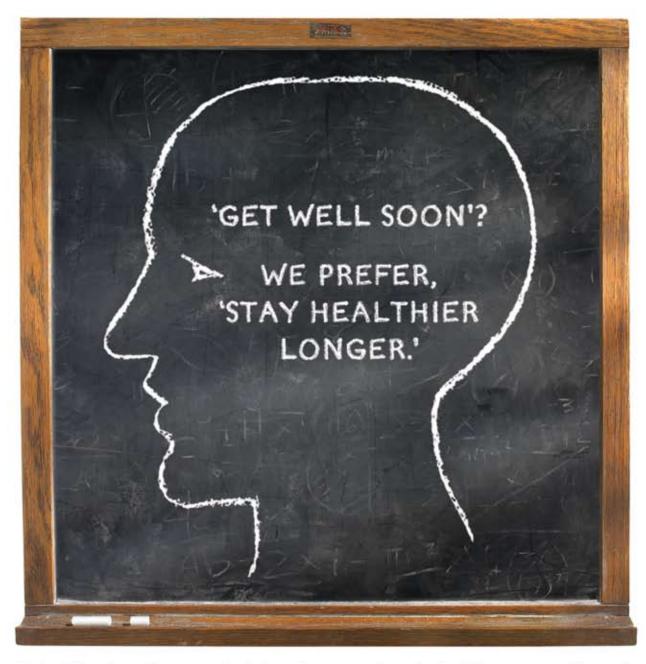
Online:

Visit www.movementdisorders.org/congress/congress07/cme and follow the on-screen instructions to claim your CME Credit or Certificate of Attendance. You can print the certificate directly from your computer or a send it to your personal e-mail address.

CME/Certificate of Attendance Online Instructions:

You will need your MDS ID Number and password to claim credit. This information can be found on the bottom of your registration confirmation form (found in your registration packet). It will also be e-mailed to all International Congress participants upon the completion of the 11th International Congress.

MDS-0407-024



Today, Pfizer is working toward solutions that mean a happier, healthier tomorrow for us all.

Pfizer is proud to support
The Movements Disorder Society's
11th International Congress of
Parkinson's Disease and Movement Disorders.



Poster Session 1

Tuesday, June 5, 2007 - 12:30 PM - 2:30 PM Rumeli Hall, Lower Level Poster Viewing 9:00 a.m. to 4 p.m. Authors Present 12:30 p.m. to 2:30 p.m. Poster numbers 33-345 and Poster 683

Ataxia

Poster numbers 33-52

- High field proton MR spectroscopy of sporadic and hereditary spinocerebellar ataxias
 G. Oz, I. Iltis, D. Hutter, C.M. Gomez (Minneapolis, Minnesota, USA)
- Frequency of the MCP sign in FMR1 premutation carriers and FXTAS
 M.A. Leehey, D. Rubinstein, A.G. Brega, D. Hall, F. Tassone, L. Zhang, R. Hagerman, P.J. Hagerman, J. Grigsby (Denver, Colorado, USA)
- NARP-MILS syndrome caused by 8993T>G
 mitochondrial DNA mutation showing ragged-red
 fibers
 - J. Youn, J.Y. Kim, W.Y. Lee, E.J. Chung, W.T. Yoon, Y.-L. Suh, C.S. Ki (Seoul, Republic of Korea)
- Gordon Holmes spinocerebellar ataxia with retinal dystrophy
 S.-J. Kim, E.J. Chung, J-H. Joo (Busan, Korea)
- Ataxin-2 localizes at the Endoplasmic reticulum and co-sediments with polysomes
 S. van de Loo, J. Nowock, R. Hilker, G. Auburger (Frankfurt/Main, Germany)
- A phase III double-blind, randomised, placebocontrolled study of the efficacy, safety and tolerability of idebenone in the treatment of Friedreich's ataxia patients P. Giunti, J. Gray, N.W. Wood (London, United Kingdom)
- 39 The natural history of multiple system atrophy K. Arai, Y. Yoshiyama, K. Ogawara, C. Ishikawa, K. Ito (Chiba, Japan)
- 40 Clinical relevance of "bulging eyes" for the differential diagnosis of spinocerebellar ataxias H.A.G. Teive, R.P. Munhoz, S. Raskin, W.O. Arruda, L.C. Werneck (Curitiba, PR, Brazil)
- 41 Involuntary movements in ataxia-telangiectasia: Natural history and quantitative characteristics A.G. Shaikh, D.S. Zee, A.E. Meyer, H.M. Lederman, T.O. Crawford (Baltimore, Maryland, USA)

- Different metabolic pattern in SCA 1,2,3 and 6 in FDG-PET and correlation with clinical parameters
 M. Minnerop, E. Rota Kops, H. Herzog, E. Brunt, K.L. Leenders, T. Klockgether, U. Wüllner (Bonn, Germany)
- SCA 12 with the identification of novel intermediate allele
 A.K. Srivastava, M. Mukerji, M.V. Padma, K. Prasad, M. Behari (New Delhi, India)
- 44 SCA 7 with late retinal degeneration from India A.K. Srivastava, M. Mukerji, M.B. Singh, M. Tripathi, R. Bhatia, M.V. Padma, K. Prasad, M. Behari (New Delhi, India)
- 45 Cognitive dysfunctions in spinocerebellar ataxia type 1 and 2
 E. Pastorello, S. Lombardi, F. Cappa, M. Clementi, P. Bisiacchi, D. Paganini, C.P. Trevisan (Padova, Italy)
- Characteristics of cortical excitability revealed by transcranial magnetic stimulation in spinocerebellar ataxias type 1, type 2 and idiopathic sporadic cerebellar ataxia
 S. Radovanovic, N. Dragasevic, J. Maric, M. Svetel, V.S. Kostic (Belgrade, Serbia)
- 47 Human recombinant erythropoietin increases frataxin in Friedreich ataxia
 S. Boesch, B. Sturm, S. Hering, H. Goldenberg, B. Scheiber-Mojdehkar, W. Poewe (Innsbruck, Austria)
- 48 Novel compound heterozygous mutations in SACS gene in autosomal recessive spastic ataxia of Charlevoix-Saguenay (ARSACS)
 I. Toyoshima, S. Kamada, S. Okawa, M. Sugawara, C. Wada (Akita, Japan)
- 49 Potassium channel blocker 4-aminopyridine is effective in late onset episodic ataxia type 2 (EA2)

 a video case report
 M. Löhle, W. Schrempf, M. Wolz, H. Reichmann, A. Storch (Dresden, Saxony, Germany)
- 50 Correlation between clinical tests and accelerometry in the assessment of cerebellar tremor in multiple sclerosis
 S. Seidel, D. Samal, J. Zezula, K. Vass, E. Auff (Vienna, Austria)
- 51 Spinocerebellar ataxia type 7 in Venezuela M. Gallardo, A. Soto, G. Orozco, M. Camacaro (Caracas, Miranda, Venezuela)
- Usefulness of the scale for assessment and rating of ataxia (SARA)
 I. Yabe, M. Matsushima, H. Soma, H. Sasaki (Sapporo, Japan)

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- Vacuous chewing movements are related to striosome-dominant activity in ventrolateral striatum
 B. Bastan, G. Sahin, M. Hayran, E. Saka, B. Elibol (Lund, Sweden)
- LRRK2 binds to membrane
 T. Hatano, S.-I. Kubo, Y. Mizuno, N. Hattori (Bunkyo, Tokyo, Japan)
- The GTPase and kinase activity of the LRRK2 protein are both required for inclusion formation and cell toxicity in cell culture models
 D. Schweiger, M. van Doeselaar, B. Oostra, V. Bonifati (Rotterdam, Netherlands)
- Potency of CNBTX-A substantially exceeds labeled units in standard potency test
 T. Hunt, K. Clarke (Irvine, California, USA)
- 57 MPTP-lesioned mouse model of the beginning-ofdose inhibitory effect in Parkinson's disease S.A. Gunzler, S. Shakil, N.E. Carlson, J.G. Nutt, C.K. Meshul (Portland, Oregon, USA)
- PYM50028, a novel, orally active neurotrophic factor inducer, protects and reverses the neuronal damage induced by MPP+ in mesencephalic neuronal cultures and by MPTP in a mouse model of Parkinson's disease
 N.P. Visanji, T.H. Johnston, N. Callizot, A. Orsi, D. Rees, J.M. Brotchie (Toronto, Ontario, Canada)
- Evaluation of gastrointestinal function in a mouse model of Parkinson's disease
 G. Anderson, G. Taylor, D. Bernhard, M. Anitha, S. Srinivasan, J.G. Greene (Atlanta, Georgia, USA)
- 60 Stability of Xeomin®, a preparation of botulinum neurotoxin type A, free of complexing proteins S. Grein, G.J. Mander, S. Grafe (Frankfurt, Germany)
- 61 Modulation of Akt signaling pathway by the interaction of DJ-1 with PTEN C.Y. Kim, H. Kitaura, S.M.M. Iguchi-ArigaSanae, H. Ariga (Sapporo, Hokkaido, Japan)
- 62 Decreased expression of alpha-synuclein in Parkinson's disease: Multiple-level evidence S. Papapetropoulos, N. Adi, L. Shehadeh, J. Ffrench-Mullen, N. Bishopric, D.C. Mash (Miami, Florida, USA)
- Mutant forms of parkin cause protein aggregation, alterations of the ubiquitin-proteasome system and neuronal death in human neuroblastoma cells E. Kyratzi, M. Pavlaki, D. Kontostavlaki, H.J. Rideout, L. Stefanis (Athens, Attiki, Greece)

- 64 Reflex control of jaw movement K.S. Türker (Adelaide, SA, Australia)
- No age-related loss or morphological changes in nigral neurons of substantia nigra pars compacta of normal Indian human brains: A stereological study
 - P.A. Alladi, A. Mahadevan, T.C. Yasha, T.R. Raju, S.K. Shankar, U. Muthane (Bangalore, Karnataka, India)
- 66 Expression of MT1 MT2 receptors in human postmortem amygdala and substantia nigra of Parkinson's disease and controls subjects N. Adi, L. Shehadeh, D.C. Mash, C. Singer, S. Papapetropoulos (Miami, Florida, USA)
- 67 Human uncoupling-protein-4 protects neuronal cell death from MPP+ induced toxicity by regulating mitochondrial membrane potential, reducing generating ROS and maintaining ATP levels
 - C.Y. Chu, W.L. Ho, H.H. Kwok, Y.J. Wang, D.B. Ramsden, S.L. Ho (Hong Kong, China)
- 68 Role of Neu4L sialidase and its substrate ganglioside GD3 in neuronal apoptosis induced by catechol metabolites
 T. Hasegawa, N. Sugeno, A. Takeda, M. Matsuzaki-Kobayashi, A. Kikuchi, K. Furukawa, T. Miyagi, Y.

Itoyama (Sendai, Miyagi, Japan)

- Vesicular dysfunction may trigger dopaminergic cell death
 M. Kobayashi, T. Hasegawa, A. Takeda, N. Sugeno, Y. Itoyama (Sendai, Miyagi, Japan)
- Glucocerebrosidase mutations promote synuclein aggregation
 Goker-Alpan, D. Urban, B.K. Stubblefield, M.R.
 Cookson, E. Sidransky (Bethesda, Maryland, USA)
- 71 Leucine-rich repeat kinase 2 binds to lipid rafts in synaptic terminals
 S.-I. Kubo, T. Hatano, Y. Mizuno, N. Hattori (Bunkyo, Tokyo, Japan)
- 72 Pleiotrophin over-expression after intrastriatal and intranigral administration of a recombinant adenoviral vector containing human pleiotrophin cDNA
 - I.R. Taravini, M. Chertoff, E. Cafferata, G.M. Murer, F. Pitossi, O.S. Gershanik (Capital Federal, Buenos Aires, Argentina)
- 73 Selective suppression of REM sleep in MPTP non-human primates: A long term continuous electroencephalographic study by telemetry V. Lambrecq, C. Forni, F. Tison, E. Balzamo, B. Bioulac, I. Ghorayeb (Bordeaux, France)

- Istanbul, Curkey
- 74 Neuronal a-synuclein overexpression affects lymphocytic gene networks in a transgenic mouse model of Parkinson's disease
 B.A. Chase, G. Lu, K. Markopoulou (Omaha, Nebraska, USA)
- 75 Endogenous dopamine causes neurodegeneration in mice
 L. Chen, Y. Ding, B. Cagniard, W. Chi, A.D. Van Laar, A. Mortimer, T.G. Hastings, U.J. Kang, X. Zhuang (Chicago, Illinois, USA)
- Role of phosphorylation at serine 129 in cellular toxicity of -synuclein
 N. Sugeno, A. Takeda, T. Hasegawa, M. Kobayashi, A. Kikuchi, Y. Itoyama (Sendai-City, Miyagi, Japan)
- 77 Neuroprotective effect of human mesenchymal stem cell on dopaminergic neurons by anti-inflammatory action
 P.H. Lee, Y.-J. Kim, H.-J. Park, S.W. Yong (Suwon, Gyeonggi, Republic of Korea)
- 78 Prolonged microglial activation in the substantia nigra of zitter rat T. Kadowaki, A. Nakamura, K. Hashimoto, K. Nakadate, S.-I. Sakakibara, K. Hirata, S. Ueda (Mibu, Tochiqi, Japan)
- 79 Ubiquitylation of synphilin-1A modulates its aggregation and neurotoxicity in Parkinson's disease
 R. Szargel, A. Eyal, J. Haskin, E. Avraham, E. Liani, R. Rott, S. Engelender (Haifa, Israel)
- Relationship of -synuclein to chaperone mediated autophagy
 T. Vogiatzi, K. Vekrellis, L. Stefanis (Athens, Attiki, Greece)
- Comparative analysis of progenitor cell populations in the adult midbrain of wild-type and Parkinsonian mice models
 A. Hermann, C. Suess, F. Pan-Montojo Puga,
 M. Jungnitsch, S. Gehre, J. Schwarz, A. Storch (Dresden, Germany)
- 82 Apoptotic mechanisms in mutant LRRK2-mediated cell death
 C. Vitale, C. laccarino, C. Crosio, G. Sanna, M.T. Carri, P. Barone (Naples, Italy)
- 83 The nociceptin/orphanin FQ receptor antagonist J-113397 enhances the effects of L-DOPA in the MPTP-lesioned non-human primate model of Parkinson's disease N.P. Visanji, S.H. Fox, R.M.A. Debie, A.C. McCreary, J.M. Brotchie (Toronto, Ontario, Canada)

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- 84 Botulinum toxin treatment in perioral dyskinesia M.-W. Seo (Chonju, Jeonbuk, Korea)
- Huntington's disease-like 2: The first case report in Latin America in a patient without African ethnic origin
 H.A.G. Teive, N. Becker, R.P. Munhoz, S. Raskin, L.C. Werneck, C. Cazeneuve, A. Durr, O. Russaouen, A.
- B6 Disordered post-movement excitation in surround muscles in paroxysmal kinesigenic dyskinesia Y.H. Sohn, J.-S. Kim, H.-W. Shin, S.Y. Kang (Seoul, Korea)

Brice (Curitiba, PR. Brazil)

- Hemichorea secondary to striatal hemorrhage in hyperglycemic hyperosmolar coma
 Ozkan, G. Tekgol, S. Dagli, D. Ozbabalik (Eskisehir, Turkey)
- Levels of the light subunit of neurofilament triplet protein in cerebrospinal fluid in Huntington's disease
 R. Constantinescu, M. Romer, L. Rosengren, D. Oakes, K. Kieburtz (Goteborg, Sweden)
- 89 Atypical onset movement disorders in Brazilian Huntington's disease patients H.A.G. Teive, N. Becker, R.P. Munhoz, S. Raskin, L.C. Werneck (Curitiba, PR, Brazil)
- Aripiprazole in Huntington's disease: A first case report
 A. Ciammola, J. Sassone, F. Squitieri, B. Poletti, N. Mencacci, A. Ciarmiello, V. Silani (Milano, Italy)
- 91 Chorea following acute sensory deprivation
 D. França, A.V. Giannetti, F. Cardoso (Belo Horizonte, MG, Brazil)
- 92 Clinical findings in Titf-1 and SGCE-mutation carriers: Towards a clinical differentiation of benign hereditary chorea and myoclonus-dystonia F. Asmus, A. Zimprich, M. Munz, T. Gasser, P.F. Chinnery (Tuebingen, Germany)
- 93 Chorea isolated on the both lower limbs associated with hyperglycemia Y.-H. Sung, H.-T. Kim, D.-J. Shin (Incheon, Korea)
- 94 Late-onset Huntington's disease in our movement disorder unit
 A. De la Cerda, E. Muñoz, E. Tolosa (Barcelona, Spain)
- 95 Bradykinesia in patients with history of sydenham's chorea
 L.B. Barreto, F. Cardoso, D.P. Maia, A.L. Teixeira, Jr, R.G. Beato (Belo Horizonte, Minas Gerais, Brazil)

- 96 Chorea and compulsive behavior an unusual presentation of myasthenia gravis
 M. Niethammer, M. Daras, S. Frucht (New York, New York, USA)
- 97 A case of CHAP syndrome M.-W. Seo, S.-Y. Jeong (Chunju, Jeonbuk, Korea)
- 98 Choreoathetosis precipitated by subclinical hypothyroidism in an Asian patient W.S.S. Hameed, T.E. King (Singapore, Singapore)
- 99 Encephalitis with hyperkinesias A.E. Collins, S. Honarmand, C.A. Glaser (New York, New York, USA)
- 100 Oxidative stress parameters in plasma of Huntington's disease patients, asymptomatic Huntington's disease gene carriers and healthy subjects: A cross-sectional study N. Klepac, M. Relja (Zagreb, Croatia)
- 101 Early onset Huntington disease presenting with choreiform movements in the abdominal muscles A.A. Ege, B. Koçer, S. Bilen, N.S. Oztekin, F. Ak (Ankara, Turkey)
- Therapeutics for Huntington's disease: A systematic review
 T. Mestre, J. Ferreira, M. Coelho, M.M. Rosa, C. Sampaio (Lisbon, Portugal)
- 103 Serum brain-derived neurotrophic factor (BDNF) changes in Huntington's disease subjects
 J. Sassone, A. Ciammola, M. Cannella, B. Poletti, L. Frati, F. Squitieri, V. Silani (Cusano Milanino, Milano, Italy)
- 104 Sydenham's chorea may be associated with sustained monocyte activation K.C. Torres, W.O. Dutra, D.P. Maia, F. Cardoso, K.J. Gollob, A.L. Teixeira (Belo Horizonte, Brazil)
- 105 Chorea in adults after pulmonary thromboendarterectomy with deep hypothermia and circulatory arrest R.M.A. De Bie, H.M.M. Smeding, M.A.J. Tijssen (Amsterdam, Netherlands)
- Motor neuron disease and choreaJ. Klempir, O. Klempirova, Z. Lebedova, J. Roth (Prague, Czech Republic)
- 107 Inefficient deep brain stimulation in a young patient suffering from choreoathetosis
 K. Schumm, K. Kiening, M.C. Kraus, M. Krause, M. Kloss (Heidelberg, Germany)

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- 108 Peripheral neuropathy and plasma homocysteine level in Parkinson's disease patients: A pilot study M. Nevrly, H. Vranova, Z. Chovancova, I. Nestrasil, P. Otruba, J. Dufek, P. Kanovsky (Olomouc, Czech Republic)
- 109 Differential modulation of cranial and limb muscle function by levodopa in Parkinson's disease P.B. Tawadros, J.A. Burne (Sydney, NSW, Australia)
- 110 Elecrically and auditory evoked brain stem reflexes in cervical dystonia M.E. Kiziltan, A. Gunduz, O. Uyanik, R. Sahin (Istanbul, Turkey)
- 111 Reflex inhibition of muscle cramp by electrical stimulation of muscle tendons
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- Hyperexcitable motor responses to flash stimulation in Parkinson's disease: A TMS study
 S. Tamburin, A. Fiaschi, P. Manganotti, F. Milanese, A. Polo, G. Zanette (Peschiera del Garda, VR. Italy)
- 113 Evidence of negative myoclonus in clozapine induced folding legs phenomena and drop attacks D. Murgia, L. Fabiano, N.J. Toms, C. Cordivari (London, United Kingdom)
- 114 Executive functions processed in the frontal and lateral temporal cortices. An intracerebral event-related de/synchronization study with writing of single letters
 M. Bockova, J. Chladek, P. Jurak, J. Halamek, I. Rektor (Brno, Czech Republic)
- ParkinSense comparison to the unified Parkinson's disease rating scale: Preliminary tremor and bradykinesia results
 J. Giuffrida, L.C. Trout, L. Mather, B. Maddux, D. Riley (Cleveland, Ohio, USA)
- 116 Extracellular microrecordings during stereotactic neurosurgery for Parkinson's disease: Spike descriptors in the human subthalamus and substantia nigra S. Mrakic-Sposta, S. Marceglia, F. Cogiamanian, M. Egidi, P. Rampini, M. Locatelli, G. Carrabba, M. Vergari, A. Priori (Milan, Italy)
- 117 Long-term effect of locally administered botulinum toxin a on neuromuscular transmission: Longitudinal single-fiber EMG study S. Vohanka, B. Micankova, J. Bednarik (Brno, Czech Republic)

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- 118 Delayed blink reflex in Lewy bodies dementia L. Bonanni, F. Anzellotti, S. Varanese, A. Thomas, L. Manzoli, M. Onofri (Pescara, Italy)
- The role of ipsilateral motor cortex in complex finger movements: A rTMS study
 L. Avanzino, A. Tacchino, C. Ogliastro, M. Bove, C. Trompetto, G. Abbruzzese (Genova, Italy)
- 120 Use of a geste antagoniste device in a case of cervical dystoniaN.J. Toms, C. Cordivari (London, United Kingdom)
- 121 Validation of spiral analysis for quantification of motor improvement in Parkinson's patients after deep brain stimulation M.M. Kurtis, Q. Yu, A.G. Floyd, R.R. Goodman, G.M. McKhann, L. Winfield, B. Ford, L. Côté, S.L. Pullman (New York, New York, USA)
- 122 Putative central effects of botulinum toxin, possibly mediated by changes in Renshaw cell activity, following intramuscular injection in humans
 R. Mazzocchio, R. Spidalieri, F. Dominici, T. Popa, M. Hallett, A. Rossi (Siena, Italy)
- The tonic stretch reflex studied in Parkinsonism over a wide range of stretch frequencies and contraction levels
 V. Stanislaus, J.A. Burne (Sydney, NSW, Australia)
- 124 Abnormal excitability of inhibitory mechanisms at central nervous system level in idiopathic primary vaginismus and vulvar vestibulitis syndrome E. Frasson, A. Graziottin, G. Didonè, E. Garbin, S. Vicentini, E. Dall'Ora, L. Bertolasi (Cittadella, Padua, Italy)
- The syndrome of dystonia and cerebellar ataxia: Cortical excitability and pathophysiological implications
 P. Talelli, B.P.C. van de Warrenburg, S.A. Schneider,
 P. Giunti, N.P. Quinn, N.W. Wood, J.C. Rothwell, K.P. Bhatia (London, United Kingdom)
- 126 Voluntary and reflex blinking in Parkinson's disease
 R. Agostino, B. Gregori, L. Dinapoli, M. Bologna, D. Belvisi, G. Fabbrini, A. Berardelli (Roma, Italy)

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- 127 Blepharospasm associated with Sjogren's syndrome
 J.-S. Liu, M.-Y. Lan, C.-S. Su, S.-L. Lai, H.-S. Wu, Y.-Y. Chang (Kaohsiung, Taiwan)
- 128 Impaired disinhibition of the motor cortex during development of LTP-like plasticity in dystonia S. Meunier, H. Russmann, M. Hallett (Paris, France)
- Diffusion tensor imaging in patients with primary adult onset focal dystonias
 G. Fabbrini, P. Totaro, V. Calistri, C. Colosimo, P. Pantano, A. Berardelli (Rome, Italy)
- Clinical outcome predictors of pallidal stimulation in patients with primary dystonia
 I.U. Isaias, R.L. Alterman, J. Miravite, D. Weisz, J.L. Shils, M. Tagliati (Monza, Italy)
- Muscle hypertrophy in cervical dystonia: A magnetic resonance imaging (MRI) based analysis R. Cakmur, S. Men, E. Karakas, E. Yaka, F. Uzunel (Izmir. Turkev)
- 132 Exercise as an environmental trigger for focal dystonia
 E.L. Peckham, P.T. Lin, E.A. Shamim, M. Hallett (Bethesda, Maryland, USA)
- 133 Is fluoxetine innocent as thoughtS. Bilen, F. Ak (Ankara, Turkey)
- 134 Sensorimotor organisation of the hand area is differently modulated by proprioceptive training in musician's dystonia and writer's cramp K. Rosenkranz, K. Butler, A. Williamon, C. Cordivari, A.J. Lees, J.C. Rothwell (London, United Kingdom)
- 135 Efficiency of botulinum toxin in treatment of writer's cramp: Long-term follow-up results
 Z. Matur, H. Hanagasi, Y. Parman (Istanbul, Turkey)
- 136 Pediatric writer's cramp in myoclonus-dystonia. Maternal imprinting hides positive family history M.C.F. Gerrits, E.M.J. Foncke, J.H.T.M. Koelman, M.A.J. Tijssen (Amsterdam, Netherlands)
- Long-term motor learning in focal hand dystonia (FHD)E.A. Shamim, S.Y. Kang, M. Hallett (Bethesda, Maryland, USA)
- 138 A patient with Meige-like psychogenic Movement Disorder
 S. Turan, D. Uluduz, S. Ozekmekci (Istanbul, Turkey)

- 139 Influence of coffee drinking and cigarette smoking on the risk of primary late-onset blepharospasm: Evidence from a multicentre case-control study A. Berardelli, G. Abbruzzese, P. Girlanda, D. Martino, M. Tinazzi, G. Defazio (Rome, Italy)
- 140 Focal limb dystonia with ipsilateral cerebellar hemiatrophy J.S. Baik, J.H. Park, J.Y. Kim, S.W. Han, J.H. Kim (Seoul, Korea)
- Sepiapterin reductase deficiency masquerading as hypotonic cerebral palsy
 G.M. Wali, B. Thony, N. Blau (Belgaum, Karnataka State, India)
- 142 Associative plasticity in psychogenic dystonia
 A. Quartarone, V. Rizzo, C. Terranova, S.A. Schneider,
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- 143 Autosomal dominant myoclonus dystonia: Unusual phenotype with prominent hypotonia/motor impersistence and positive celiac serology V.S.C. Fung, N. Mahant, C.M. Sue, A. Grünewald, C. Klein (Sydney, NSW, Australia)
- 144 Brainstem reflexes in essential blepharospasm G. Benbir, M.E. Kiziltan (Istanbul, Turkey)
- 145 A case of paroxysmal dyskinesia: Atypical or psychogenic?
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- Long-term therapy of blepharospasm and facial hemispasm with botulinum toxin type A
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- 147 Bilateral cortical grey matter changes support the sensory endophenotype hypothesis in familial adult onset primary torsion dystonia: A VBM study R. Walsh, R. Wheelan, J.P. O'Dwyer, S. O'Riordan, S. Hutchinson, R. Reilly, R. O'Laoide, K. Malone, M. Hutchinson (Dublin, Ireland)
- Tactile training with or without 1Hz rTMS to primary motor cortex: A case study in two patients with focal hand dystonia
 A.J. Nelson, W. Chau, B. Ross, G. Carolyn, R. Chen (Toronto, Ontario, Canada)
- 149 Nuclear envelope phenotype in Dyt1 mutant mice Y. Li, F. Yokoi, M. Dang (Birmingham, Alabama, USA)
- Neuroanatomy of dystonia: A motor network concept
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- New onset or worsening psychosis in patients with Wilson's disease on treatment
 A. Aggarwal, A. Nagral, M. Bhatt (Mumbai, Maharashtra, India)
- Defective inhibition and functional connectivity in pianists with musician's dystonia (MD): An EEG study
 M. Herrojo Ruiz, P. Senghaas, M. Grossbach, H.-C. Jabusch, M. Bangert, F. Hummel, C. Gerloff, E. Altenmüller (Hanover, Germany)
- Retrocollis: Classification, clinical phenotype,
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 S. Papapetropoulos, S. Baez, J. Zitser, C. Sengun, C. Singer (Miami, Florida, USA)
- 154 The thorburn posture: See it again for the second timeP.J. Sweeney (Cleveland, Ohio, USA)
- 155 Secondary nonkinesigenic paroxysmal dystonia after thalamic infarcts
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- 156 Treatment of post-traumatic segmental axial dystonia with zolpidem M.-W. Seo, S.-Y. Jeong (Chunju, Jeonbuk, Korea)
- 157 Quantitative characteristics of limb tremor in cervical dystonia
 A.G. Shaikh, H.A. Jinnah, R.M. Tripp, S. Ramat, D.S. Zee (Baltimore, Maryland, USA)
- Disturbed topographic specific plasticity in cervical dystonia and blepharospasm
 A. Schramm, D. Weise, M. Beck, K. Reiners, J. Classen (Wuerzburg, Germany)
- Natural course of idiopathic torsion dystonia: Is focal dystonia actually focal?
 M.V. Svetel, T. Pekemzovic, N. Ivanovic, J. Jovic, N. Dragasevic, V.S. Kostic (Belgrade, Serbia)
- Transcranial magnetic stimulation in myoclonus-dystonia
 S.M.A. van der Salm, A.-F. van Rootselaar, E.M.J. Foncke, J.T.H.M. Koelman, L.J. Bour, K.P. Bhatia, J.C. Rothwell, M.A.J. Thijssen (Amsterdam, Netherlands)
- A new locus for adult-onset Focal Idiopathic Torsion Dystonia
 M.Y. Frederic, C.-M. Dhaenens, C. Davin, R. Mazzoleni, A. Kreisler, I. Vuillaume, M. Marinez, M. Claustres, S. Tuffery-Giraud, G. Collod-Beroud (Montpellier, France)

- Istanbul, Curkey
- Pallidal deep brain stimulation for primary segmental dystonia
 S. Biguzzi, M. Sensi, M.A. Cavallo, C. Lettieri, R. Quatrale, E. Sette, V. Tugnoli, E. Fainardi, M.R. Tola, E. Granieri, R. Eleopra (Ferrara, Italy)
- 163 Abstract withdrawn
- 164 A case of cerebello pontine angle tumor presenting as cervical dystonia
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- Botulinum toxin for treatment of task-specific orofacial dystonia
 C.-H. Pek, R.C.S. Seet, J.-H. Yik, E.C.H. Lim (Singapore)
- Survey of families presenting with late-onset focal idiopathic torsion dystonia in France
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- 167 Spasmodic dysphonia and writer's cramp in the Korean patient with novel missense mutations in the PANK2 gene J.Y. Kim, W.Y. Lee, C.S. Ki, H.-Y. Shin, W.T. Yoon, E.J. Chung (Seoul, Republic of Korea)
- 168 Assessment of TOR1A mutation carriers identified through the network of TOR1A diagnostic laboratories in France M.Y. Frederic, F. Clot, A. Durr, A. Brice, G. Lesca, I. Vuillaume, A. Calender, B. Sablonniere, T. Besnard, D. Thorel, C. Saquet, L. Ozelius, L. Hjermind, A. Roubertie, L. Cif, M. Claustres, S. Tuffery-Giraud, G. Collod-Beroud (Montpellier, France)

Surgical Therapy

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 F. Stocchi, N.P. Stover, L. Giorgi (Roma, Italy)
- 296 A case report of a deliberate overdose of ropinirole I. Ahmed (London, United Kingdom)
- 297 Ability to arise from the floor in persons with Parkinson's disease
 J.A. Kraakevik, R.G. Blehm, S. O'Connor, C. Tepper,
 J.G. Nutt (Portland, Oregon, USA)
- The primary olfactory cortex in Parkinson's disease (PD) and incidental Lewy body disease (ILBD)
 L. Silveira-Moriyama, J.L. Holton, A. Kingsbury, H. Ayling, W. Sterlacci, W. Poewe, H. Maier, A.J. Lees, T. Revesz (London, United Kingdom)
- 299 Cortical atrophy patterns in PSP and MSA patients detected via 3D cortical morphometry on MRI D. Tosun, S. Duchesne, A.W. Toga, C. Barillot, Y. Rolland, M. Vérin (Los Angeles, California, USA)
- 300 Effect of adjunct rasagiline on dopaminergic and non-dopaminergic motor features of Parkinson's disease
 - J.M. Rabey, C.J. Fitzer-Attas (Zerifin, Israel)
- 301 Ropinirole 24-hour prolonged release in advanced Parkinson's disease: Relationship between treatment response and disease severity K.D. Sethi, F. Stocchi, L. Giorgi (Augusta, Georgia, USA)
- 302 Does pregnancy affect the progression of Parkinson's disease?
 B. Robottom, J. Mullins, L.M. Shulman (Baltimore, Maryland, USA)
- 303 Mild cognitive impairment in Parkinson's disease E. Stefanova, M. Petrovic, M. Svetel, N. Dragasevic, V. Kostic (Belgrade, Serbia)
- 304 Tolcapone as an alternative to entacapone for adjunctive therapy in Parkinson's disease: An evidence-based efficacy comparison
 A.J. Lees, H. Achenbach (London, United Kingdom)
- Health-related quality of life in Parkinson's disease: Development and predictors during long-term disease progression
 E.B. Forsaa, K. Herlofson, T. Wentzel-Larsen, J.P. Larsen, G. Alves (Stavanger, Norway)

- 306 Neurocircuitries associated with tremor and dyskinesia: Insights from an fMRI case study S. Sen, M. Lewis, X. Huang (Chapel Hill, North Carolina, USA)
- 307 Ropinirole 24-hour prolonged release delays the onset of dyskinesia compared with carbidopa/ levodopa in patients with Parkinson's disease treated with levodopa
 R.L. Watts, K.D. Sethi, R. Pahwa, B.E. Adams, N.L. Earl (Birmingham, Alabama, USA)
- 308 Growth hormone stimulation test (CGHST) detects autonomic failure earlier than clinical autonomic testing in Parkinson's disease M. Ragothaman, S. Koshy, D.K. Subbakrishna, C.J. Mathias, U. Muthane (Bangalore, India)
- 309 Pathological hypersexuality in Parkinson's disease: A clinician-rated survey and a working definition
 T. Thomsen, J.M. Miyasaki, M. Zurowski, M. De Sousa, R.M.A. De Bie, P. Wadia, G. Adeli, A.E. Lang, V. Voon (Toronto, Ontario, Canada)
- 310 FP0011 extends the duration of the antiparkinsonian actions of L-D0PA and reduces L-D0PA-induced dyskinesia in the MPTP-lesioned macaque model of Parkinson's disease J.M. Brotchie, T.H. Johnston, S.H. Fox, P. Zerr, F. Tiberghien, L. Bossi (Toronto, Ontario, Canada)
- 311 Reflexive eye and arm movement in Parkinson's disease and the gap effect
 Y. Shirakura, M.M. MacAskill, D. Myall, T.J. Anderson (Christchurch, New Zealand)
- 312 Non-motor symptoms in patients with incident and untreated Parkinson's disease the Norwegian ParkWest study
 B. Mueller, G. Alves, K. Herlofson, I. Hoegen-Esch, W. Telstad, O.B. Tysnes, J.P. Larsen (Stavanger, Norway)
- 313 A pilot data and analysis validity study on a NPF center of excellence database C.W. Garvan, C.E. Jacobson, R. Stephen, K.D. White, R.L. Rodriguez, K.D. Foote, H.H. Fernandez, M.S. Okun (Gainesville, Florida, USA)
- 314 Can we modify the factors influencing selection of drug therapy in Parkinson's disease (PD)?
 A. Nasar, P. Dyer, C. Short, J. Cowling, W. Lynda, K. Turner, L. Wheelhouse, E. Howard (Bridlington, East Yorkshire, United Kingdom)
- 315 Parkinson's disease and apomorphine an Indian experienceN. Surya (Mumbai, Maharashtra, India)

- 316 Postural impairment in Parkinson's disease:
 Diagnostic utility of the "first trial effect"

 J.E. Visser, L. Janssen, C.M. Bastiaanse, G.F. Borm,
 J.E.J. Duysens, B.R. Bloem (Nijmegen, Netherlands)
- 317 Evaluation of cognitive impairment in Parkinson's disease by computerized neuropsychological tests H. Shabtay, A.D. Korczyn (Tel Aviv, Israel)
- 318 Weight gain post deep brain stimulation of the subthalamic nucleus in Parkinson's disease: Exploring possible causes
 H.U. Jorgensen, L. Simonsen, L.M. Werdelin, S. Rusborg, A. Lokkegaard (Copenhagen, Denmark)
- 319 Clinical findings with Austrian LRRK2 mutationsubtype PD patient G. Daniel, T. Bruecke, Z. Alexander (Vienna, Austria)
- 320 An integrated speech and physical therapy approach for Parkinson's disease: Training big and loud
 C.M. Fox, B.G. Farley, L.O. Ramig, D.F. McFarland
 - C.M. Fox, B.G. Farley, L.O. Ramig, D.F. McFarland (Denver, Colorado, USA)
- 321 Clinical factors associated with freezing of gait in Parkinson's disease: A multidisciplinary approach A.A. Zylstra, A.F. Griffith, M.L. Glisky (Kirkland, Washington, USA)
- 322 Toll-free helpline reveals diverse needs of Parkinson's disease community
 R.A. Elliott, J. Rosner, L. Pituch, P. Wiener, C.M. Evers (New York, New York, USA)
- Overlap of cognitive deficits in Parkinson's (PD) and Alzheimer's (AD) diseases: Potential use of safinamide
 T. Sharma, R. Anand, R. Hartman, S. Rossetti (Newark, Delaware, USA)
- 324 Rasagiline is effective in treating patients with early Parkinson's disease, regardless of disease duration at treatment initiation (<1 year; 1 year)

 J.M. Bertoni, R. Pahwa (Omaha, Nebraska, USA)
- 325 Evaluation of c-Abl tyrosine kinase mediated regulation of parkin as therapeutic target for Parkinson's disease S.Z. Imam, S. Sriram, H.S. Ko, D.W. Pearson, A.J. Valente, J.M. Savitt, E. Andres-Mateos, D.B. Trinkaus, O. Pletnikova, J.C. Troncoso, A. Yamamoto, P.J. Kahle, S.F. Ali, V.L. Dawson, S. Li, J.L. Roberts, T.M. Dawson, R.A. Clark (San Antonio, Texas, USA)
- 326 Correlation between UPDRS-III scores and [11C]di hydrotetrabenazine (DTBZ) PET measures in early Parkinson's disease M. Wieler, J. Stoessl, W. Martin (Edmonton, Alberta, Canada)

- 327 The pharmacokinetic profile of levodopa administered with and without tolcapone in patients with advanced PD D. De Lucrezia, F. Guadagni, N. Santucci, L. Vacca, F. Stocchi (Rome, Italy)
- 328 Development and evaluation of a communitybased exercise programme for people with Parkinson's disease K.J.E. Reinikka, A. MacLeod, M. Johnson, M. Bedard, M. Jog (Thunder Bay, Ontario, Canada)
- 329 The Norwegian ParkWest study study design and incidence calculations G. Alves, B. Mueller, K. Herlofson, I. Hoegen-Esch, W. Telstad, O.B. Tysnes, J.P. Larsen (Stavanger, Norwav)
- 330 Specificity and sensitivity of transcranial ultrasound in the differential diagnosis of Parkinson's disease A. Gaenslen, B. Unmuth, I. Liepelt, A. Di Santo, K. Schweitzer, J. Godau, T. Gasser, M. Reimold, D. Berg (Tubingen, Germany)
- 331 Improved compliance with levodopa/carbidopa/ entacapone (L/C/E; Stalevo®) vs levodopa/ carbidopa and entacapone (L/C + E) as separate tablets in Parkinson's disease (PD) T.E. Delea, S.K. Thomas, M. Hagiwara, L. Mancione, M. Stacy (Brookline, Massachusetts, USA)
- 332 Effects of pramipexole on tremor and anxiety in de novo patients with Parkinson's disease H. Takahashi, F. Yoshii, K. Fuiimoto, H. Chiba, R. Kumazawa, S. Kobori, S. Takagi (Isehara, Kanagawa, Japan)
- 333 Screening for LRRK2 mutations in UK familial Parkinson's disease patients A.J. Lewthwaite, T.D. Lambert, N.W. Wood, D.J. Nicholl, K.E. Morrison (Birmingham, West Midlands, United Kingdom)
- 334 Patient report of initial symptom in Parkinson's disease, ataxia, and essential tremor D.A. Hall, M.A. Leehey, K. Howard, P. Hagerman, G. Zerbe, T. Byers (Denver, Colorado, USA)
- 335 Neurophysiological correlates of Parkinsonian dyskinesias in subthalamic oscillatory activity S. Marceglia, A. Leone, G. Foffani, F. Cogiamanian, S. Mrakic-Sposta, F. Tamma, E. Caputo, S. Barbieri, A. Priori (Milan, Italy)

- 336 Adherence to antiparkinson medication in a multicentre European study D. Grosset, A. Antonini, M. Canesi, G. Pezzoli, A.J. Lees, K. Shaw, E. Cubo, P. Martinez-Martin, O.O. Rascol, L. Negres-Pages, A. Senard, J. Schwarz, K. Strecker, H. Reichmann, A. Storch, M. Löhle, K. Grosset (Glasgow, United Kingdom)
- 337 Safety of Zydis selegiline orally disintegrating tablet (ODT) with concomitant antidepressant therapy in Parkinson's disease (PD) M.F. Lew, K.D. Sethi, G. Kricorian (Augusta, Georgia, USA)
- 338 Switch from an oral dopamine agonist to rotigotine transdermal patch in Parkinson's disease P.A. LeWitt, J.M. Patton, D.G. MacMahon, J. Jankovic (Southfield, Michigan, USA)
- 339 Vascular events in Parkinson's disease with hyperhomocysteinemia R. Ribacoba, M. Menendez, J.R. Virgili, G. Jimenez, C. Huerta, V. De la Vega (Mieres, Asturias, Spain)
- 340 Safety of concomitant therapy with rasagiline and antidepressants in Parkinson's disease M. Panisset, S. Schwid, W. Ondo, C. Fitzer-Attas, J.J. Chen (Montreal, Quebec, Canada)
- 341 Defining features of subsyndromal depression in Parkinson's disease D.A. Nation, H.L. Katzen, R.A. Rodriguez, J.A. Ledon, A. Capano, S. Papapetropoulos, B.V. Gallo, J.R. Jagid. B.E. Levin (Miami, Florida, USA)
- 342 Quality of life influenced by presence of patients' with Parkinson's disease relatives S.M. Nica, I.E.-V. Davidescu, G. Mihailescu (Bucharest, Romania)
- 343 The effects of loudness and noise on speech intelligibility in Parkinson's disease A. Halpern, J. Spielman, L. Ramig, J. Cable, I. Panzer, A. Sharpley (Denver, Colorado, USA)
- 344 What looks like a duck and sounds like a duck, may not really be a duck: Acute hemiparesis 3 weeks after DBS Q.A. Shamim-Uzzaman, E.A. Shamim, C.G. Kalhorn, A.S. Mandir, F.L. Pagan (Washington, District of Columbia, USA)
- 345 Complications of spinal surgery in Parkinson's disease: Case reports of 3 patients E. Wolf, K. Mair, A. Muigg, K. Twerdy, W. Poewe (Innsbruck, Tirol, Austria)

Poster Session 2

Wednesday, June 6, 2007 - 12:30 PM - 2:30 PM Rumeli Hall, Lower Level Poster Viewing 9:00 a.m. to 4:00 p.m. Authors Present 12:30 p.m. to 2:30 p.m. Poster numbers 346-662, and Poster 788

Drug-induced Movement DisordersPoster numbers 346-361

- 346 Veralipride: A case report of irreversible dystonia M.T. Rivas, J. Pascual, A. Sesar (Santiago de Compostela, Spain)
- 347 Evidence that lithium protects against tardive dyskinesia: The Curacao Extrapyramidal Syndromes Study VI P.N. van Harten, H.W. Hoek, G.E. Matroos, J. van Os (Amersfoort, Netherlands)
- 348 Ephedrone-induced Parkinsonism: Cliniconeuroimaging study Y. Sanotsky, M. Selikhova, L. Fedoryshyn, Y. Matviyenko, I. Komnatska, M. Kyrylchuk, A. Friedman, L. Krolicki, A.J. Lees (Moscow, Russian Federation)
- 349 Reversible parkinsonism induced by short-term treatment with valproate in Alexander's disease G. Sechi, K.S. Paulus, G.A. Cocco, G.M. Pes, G. Sau, V. Agnetti (Sassari, Italy)
- 350 Parkinsonism induced by mefloquine M.G. Senol, M. Saracoglu (Istanbul, Turkey)
- 351 Tardive eating dystonia: A case report
 Y. Kutukcu, S. Bek, F. Ozgen, Z. Odabasi (Ankara, Turkey)
- 352 Oromandibulary dyskinesia and dystonia with khat chewers
 L. Harms, F. Sporkert, H. Alwarith, F. Pragst, L. Dögnitz (Berlin, Germany)
- 353 The course of tardive dystonia: A population based study the Curacao Extrapyramidal Study VIII P.N. van Harten, G.E. Matroos, J. van Os (Amersfoort, Netherlands)
- 354 Clinical features of motor disturbances at toxic encephalopathy provoked by using of substitute psychoactive substances
 N.V. Fedorova, N. Amosova, T. Ismailova (Moscow, Russian Federation)
- 355 Tardive antidepressant drug-induced dyskinesia: Report on 5 cases and search for MRI predictors P.J. Blanchet, N. Ouatik, Y. Kuznetsov, A. Khiat, Y. Boulanger (Montreal, Quebec, Canada)

- 356 Effects of repetitive transcranial magnetic stimulation on levodopa induced dyskinesias and motor performance in Parkinson's disease S. Sayin, R. Cakmur, E. Yaka, G. Yener, F. Uzunel (Izmir, Turkey)
- 357 Sleep and periodic leg movements in schizophrenic patients with neuroleptic-induced parkinsonism
 - T.C. Wetter, S. Fulda (Munich, Germany)
- 358 Movement disorder caused by injections of manganese containing compounds
 I. Khatiashvili, K. Akhvlediani, M. Megrelishvili, M. Janelidze, N. Lobjanidze (Tbilisi, Georgia)
- 359 Deep brain stimulation for tardive dyskinesia and akathisia
 C. Kenney, R.L. Barbano, J.K. Sheffield, J. Jankovic (Houston, Texas, USA)
- Acute dystonia induced by adding midodrine to Perphenazine
 A. Castrioto, L. Pierguidi, N. Tambasco, A. Rossi, P. Calabresi (Perugia, Italy)
- 361 Capecitabine-induced oromandibular dystonia P.K. Manharlal, C.S. Pin, L.Y. Long, T.Y. Albert, S.S. Ju, P. Ratnagopal (Singapore, Singapore)

Dystonia

Poster numbers 362-403

- 362 Extreme task specificity in writer's cramps E.A. Shamim, J.M. Savitt, H.A. Jinnah, M. Hallett (Bethesda, Maryland, USA)
- 363 Chronic low back pain related to idiopathic extensor truncal dystonia
 G. Sau, V. Agnetti, E. Coco, B. Nieddu, I. Magnano, I. Aiello (Sassari, SS, Italy)
- Mental rotation of body parts in DYT1 carriers
 M. Fiorio, M. Gambarin, C. Stanzani, E.M. Valente, G.
 Defazio, G. Moretto, M. Loi, P. Soliveri, N. Nardocci, A.
 Albanese, A. Fiaschi, M. Tinazzi (Verona, Italy)
- 365 A slow flow arterio-venous malformation as a cause of a neuro-psychiatric syndorme comprising hemi-dystonia and behavioral changes M.A. Sierra-Beltrán, U. Rodrìguez-Ortiz, M.S. Rodrìguez (Mexico City, DF, Mexico)
- 366 Improvement of treatment effect with a higher dilution of botulinum toxin type A: Results of a controlled blepharospasm study
 S. Grafe, G. Comes, P. Roggenkaemper (Frankfurt, Germany)

- Istanbul, Curkey
- 367 Tonic versus phasic cervical dystonia: Persistence and influence of botulinum toxin treatment on dystonic type
 - D.D. Duane, K.B. Zebatto, J.M. Johnson, R.L. Owen, J.H. Flutie, K.A. Shunk (Scottsdale, Arizona, USA)
- 368 Changes of perfusion pattern using ECD-SPECT in patients with primary focal or generalized dystonia

 N. Kawashima, E. Horiuchi, K. Hasegawa, Y. Ujihara,
- 369 Neuropathology in idiopathic cervical dystonia M.C. Zerrate, C.A. Pardo, H.A. Jinnah (Baltimore, Maryland, USA)

Y. Hasegawa (Fujisawa, Japan)

- 370 Neuropathology of primary dystonia unrelated to DYT1 mutations
 J.L. Holton, S.A. Schneider, S. Gandhi, T.
 Ganesharajah, C. Strand, P. Shashidharan, J. Barreto, N.W. Wood, A.J. Lees, K.P. Bhatia, T. Revesz (London, United Kingdom)
- 371 Repetitive TMS of the somatosensory cortex improves writer's cramp
 R. Jech, P. Havrankova, N.D. Walker, J. Vymazal, E. Ruzicka (Prague, Czech Republic)
- 372 Longitudinal effects of pallidal stimulation on motor cortex function in dystonia
 S. Tisch, D. Ruge, P. Limousin, J. Hariz, K.P. Bhatia, N.P. Quinn, L. Zrinzo, M. Jahanshahi, J.C. Rothwell (London, United Kingdom)
- 373 Clinical characteristics of dystonia in a Movement Disorder Centre in Venezuela
 M. Gallardo, A. Soto, G. Orozco, M. Camacaro, G. Ramirez, R. Weiser, L. Vink (Caracas, Miranda, Venezuela)
- 374 Homocystinuria and dystonia case presentation O. Akan, S. Ozbakir, S. Ozturk, S. Ozturk, A. Findik (Ankara, Turkey)
- A novel mutation (64-65DelGGInsAACC(G21fsX 66)) in the GTP cyclohydrolase 1 gene causing Segawa's disease (DYT5 dystonia)
 M. von Mering, H. Gabriel, G.F. Hoffmann, A. Storch (Dresden, Germany)
- 376 Quality of life in patients with different types of focal dystonias in Serbia
 T.D. Pekmezovic, M. Svetel, N. Ivanovic, N. Dragasevic, I. Petrovic, V.S. Kostic (Belgrade, Serbia)
- 377 Clinical genetics of musician's dystonia
 A. Schmidt, H.-C. Jabusch, J. Hagenah, L. Enders,
 N. Brüggemann, K. Lohmann, R. Saunders-Pullman,
 S.B. Bressman, P.L. Kramer, A. Münchau, E.
 Altenmüller, C. Klein (Hannover, Germany)

- 378 Low-frequency rTMS of the premotor cortex in pantothenate kinase-associated neurodegenerative disease
 V. Mylius, A. Gerstner, A. Leonhardt, D. Hellwig, F. Rosenow, W.H. Oertel (Marburg, Germany)
- 379 Autosomal dominant myoclonus-dystonia and Tourette syndrome in a family without linkage to the SGCE gene M. Orth, A. Djarmati, T. Bäumer, S. Winkler, A. Grünewald, K. Lohmann-Hedrich, K. Kabakci, J. Hagenah, C. Klein, A. Münchau (Hamburg, Germany)
- 380 Deep brain stimulation of the globus pallidus internus (Gpi-DBS) in a patient with generalized dystonia due to tyrosine hydroxylase deficiency A. Kaelin-Lang, J. Abu-Isa, M. Schuepbach, A. Stibal (Bern, Switzerland)
- 381 The entitity of jaw tremor and dystonia S.A. Schneider, K.P. Bhatia (London, United Kingdom)
- 382 Early dystonia in probable Creutzfeldt-Jakob disease with diffusion weighted MR images S.-H. Lee, S.-B. Koh, K.-W. Park, D.-H. Lee (Seoul, Korea)
- Long-term treatment of cervical dystonia with botulinum toxin A retrospective assessment of the clinical and quality of life impact in patients treated for 10 years
 M. Bares, I. Rektorova, M. Balaz, H. Streitova, E. Minks, P. Kanovsky, I. Rektor (Brno, Czech Republic)
- 384 Can blepharospasm herald multiple sclerosis? G. Loria, F. Soleti, S. Servidei, A. Evoli, A.P. Batocchi, A.R. Bentivoglio (Rome, Italy)
- 385 Deep brain stimulation in dystono-dyskinetic syndromes secondary to mitochondrial diseases: Predictive value of 18F-FDG PET
 L. Cif, F. Comte, B. Biolsi, H. Elfertit, S. Gavarini, A. Saux, X. Vasques, P. Coubes (Montpellier, France)
- 386 Case reports: Blepharospasmus in Hashimoto disease
 M. Arnaoutoglou, E. Koutsouraki, V. Costa, E. Avdelidou, S.A. Kapsali, E. Kalliolia, C. Karamanidis, N. Arnaoutoglou, G. Spanos, G. Xiromerisiou, S.I. Baloyannis (Thessaloniki, Greece)
- 387 The characteristics of adult onset Segawa disease M. Segawa, Y. Nomura, K. Kimura, R. Hanajima (Tokyo, Japan)
- 388 No difference in efficacy between Xeomin® and Botox® in the treatment of cervical dystonia a detailed subgroup analysis
 H. Hefter, R. Benecke, G. Comes, S. Grafe (Duesseldorf, Germany)

- 389 A retrospective study of Botox versus Dysport in patients with movement disorders
 A.L.Z. Rosso, D.H. Nicaretta, J.P. Mattos, S.A.P. Novis (Rio de Janeiro, RJ, Brazil)
- 390 Post-traumatic adult-onset focal dystonia: A retrospective study of six consecutive cases R. Riemer, Y.-L. Zheng, H. Luo, C. Lindsey, V. Wheelock, L. Zhang (Sacramento, California, USA)
- 391 Secondary dystonia related to celiac disease A.L. Diamond, P. Agarwal, V. Segro (Englewood, Colorado, USA)
- 392 Behavioural abnormalities in DRD
 I. Trender-Gerhard, P. Mir, M. Edwards, M. Sweeney,
 L. Majahi, A. Gerhard, N. Wood, K. Bhatia (London, United Kingdom)
- Atypical phenotype in DYT1 dystonia with paroxysmal dystonia
 B. Biolsi, L. Cif, S. Gil Robles, S. Gavarini, X. Vasques, S. Plagnol, P. Coubes (Montpellier, France)
- 394 Immobilization followed by motor training is an effective therapeutical approach in patients with writer's cramp
 K.E. Zeuner, M. Peller, A. Knutzen, I. Holler, M. Hallett, G. Deuschl, H.R. Siebner (Kiel, Germany)
- 395 Abnormal low frequency drive in Myoclonus-Dystonia patients correlates with presence of dystonia E.M.J. Foncke, L.J. Bour, J. van der Meer, J.H.T.M. Koelman, M.A.J. Tijssen (Amsterdam, Netherlands)
- 396 Clinical and poly-electromyographic diagnostics of facial movement disorders and their treatment with botulinum toxin G. Reichel, A. Stenner, W. Hermann (Zwickau, Germany)
- 397 Knowledge and perception of dystonia: A comparison among various religions and ethnicities in the state of Florida
 V. Gosein, M.P. Silverstein, C.E. Jacobson IV, M.S. Okun, R.L. Rodriguez, H.H. Fernandez (Gainesville, Florida, USA)
- 398 Sensorimotor cortex hypoactivation during writing in writer's cramp: An event-related fMRI study P. Havrankova, R. Jech, N.D. Walker, J. Vymazal, E. Ruzicka (Prague, Czech Republic)
- 399 Is it always necessary to apply botulinum toxin into the lower facial muscles in hemifacial spasm?
 A randomized, single-blinded, crossover trial
 B. Donmez Colakoglu, R. Cakmur, F. Uzunel (Izmir, Turkey)

- Short intracortical inhibition (SICI) during different phases of movement in patients with focal hand dystonia
 Beck, S. Pirio Richardson, M. Hallett (Bethesda, Maryland, USA)
- 401 A Multi-centre, open-label, multiple-dose, dose-escalation, safety and tolerability study of Botulinum Toxin Type B in patients with cervical dystonia

 E.J. Pappert (San Antonio, Texas, USA)
- 402 Experience of treatment focal dystonic hyperkinesis with botulinic toxin in center neurology and neurorehabilitation FSE "Siberian Regional Medical Center"

 D.V. Pokhabov, V.G. Abramov (Krasnoyarsk, Siberia, Russian Federation)
- 403 Wilson's disease facies a distinctive clinical sign
 A. Aggarwal, A. Nagral, M. Bhatt (Mumbai,
 Maharashtra, India)

Gene and Cell-Based Therapies Poster numbers 404-407

- 404 Normalization of 6-hydroxydopamine-induced rotational behavior by transplantation of dermal fibroblasts J.P.M. Finberg, Y. Feld, Z. Gluzman, S. Marom, O. Mohsen, M. Reshef (Haifa, Israel)
- 405 Preliminary results of an open-label, dose-escalation, safety study of AADC gene transfer therapy for Parkinson's disease
 M.J. Aminoff, C.W. Christine, K. Bankiewicz, P.A. Starr, P. Larson, R. Mah, J.L. Eberling, W.J. Jagust (San Francisco, California, USA)
- 406 Suicide-gene mediated ablation of Oct4 expressing cells for ES-cell based cell replacement therapy in Parkinson's disease J. Schindehuette, P.C. Baier, T. Kuhlmann, C. Trenkwalder, W. Paulus, A. Mansouri (Goettingen, Lower Saxony, Germany)
- 407 Transplantation of bone marrow stromal cells containing the neurturin gene in rat model of Parkinson's disease M. Ye, X.J. Wang, Y.H. Zhang, S.D. Chen (Nanjing, China)

Istanbul, Curkey

Genetics

Poster numbers 408-444

- 408 Low prevalence of PANK2 mutations in Brazilian cases of neurodegeneration with brain iron accumulation
 - S. Camargos, F. Cardoso, J.G. Giannetti, A.L. Teixeira, Jr, D.P. Maia, M. Cunninham, A.J. Lees, J. Hardy, A. Singleton (Belo Horizonte, Minas Gerais, Brazil)
- 409 New insights into SNCA duplication in a French Parkinson's disease pedigree. Relevance for genetic and phenotypic evaluations
 E. Le Rhun, L. Larvor, K. Dujardin, A. Emptaz, E. Mutez, V. Mouroux, J. Andrieux, F. Lepretre, M. Steinling, L. Defebvre, A. Destee, M.-C. Chartier-Harlin (Lille, France)
- 410 Glucocerebrosidase mutations in a patients with sporadic Parkinson's disease from Taiwan S.G. Ziegler, U. Gutti, M.J. Eblan, K. Hruska, O. Goker-Alpan, E. Sidransky (Bethesda, Maryland, USA)
- 411 High prevalence of LRRK2 mutations in familial and sporadic Parkinson's disease in Portugal J.J. Ferreira, L. Correia Guedes, M.M. Rosa, M. Coehlho, M. van Doeselaar, D. Schweiger, A. Di Fonzo, B.A. Oostra, C. Sampaio, V. Bonifati (Lisbon, Portugal)
- 412 Spastic paraplegia 5: Locus refinement, candidate gene analysis and clinical description
 S. Klebe, A. Durr, N. Bouslam, D. Grid, C. Paternotte,
 C. Depienne, S. Hanein, A. Bouhouche, N. Elleuch,
 H. Azzedine, S. Poea-Guyon, S. Forlani, E. Denis,
 C. Charon, J. Hazan, A. Brice, G. Stevanin (Paris, France)
- Case-control analysis of glucocerebrosidase gene mutations in Parkinson's disease and dementia with Lewy bodies
 I.F. Mata, S.H. Schneer, A. Sanii, J.W. Roberts, A.F.
 - Griffith, B.C. Leis, J.B. Leverenz, G.D. Schellenberg, E. Sidransky, D.W. Tsuang, C.P. Zabetian (Seattle, Washington, USA)
- 414 LRRK2 mutations in patients with Parkinson's disease in southern Spain
 P. Mir, L. Gao, F. Diaz, F. Carrillo, M. Carballo, A. Palomino, J. Diaz-Martin, R. Mejias, P.J. Vime, E. Pintado, M. Lucas, J. Lopez-Barneo (Seville, Spain)
- 415 DJ-1 protects against dopamine toxicity by increasing its vesicular sequestration: Implications for Parkinson's disease N. Lev, N. Pilosof, H. Cohen, D. Offen, E. Melamed (Petah-Tikva, Israel)

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 - Broussolle, P. Pollak, L. Mallet, B. Dubois, Y. Agid, A. Brice (Paris, France)
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 Benavides, P. Chana, D. Alburquerque, T. Parrao,
 Juri, C. Kunstmann (Santiago, Chile)

- 657 What is dorso-lateral in the STN? An anatomical consideration on the ambiguous nomenclature of today's principle target for DBS surgery V.A. Coenen, A. Prescher, T. Schmidt, F.I.H. Gielen (Aachen, Germany)
- Discharge properties of human subthalamic nucleus neurons in the parkinsonian and non-parkinsonian state
 F. Steigerwald, P. Stangenberg, M. Pötter, J. Herzog, M. Pinsker, H.M. Mehdorn, G. Deuschl, J. Volkmann (Kiel, Germany)
- 659 Rotigotine transdermal patch in early stage Parkinson's disease: Results of a placebo- and ropinirole-controlled trial N. Giladi, A. Korczyn, B. Boroojerdi (Monheim, Germany)
- 660 Two novel missense mutations were found in a Parkin2 gene and may be related to the development of the early onset parkinsonism M. Kasap, G. Akpinar, E. Ergul, H.A. Idrisoglu, A. Sazci (Kocaeli, Turkey)
- Impaired attention: A risk factor for falls in Parkinson's disease?
 L.M. Allcock, E.N. Rowan, K. Wesnes, R.A. Kenny, D.J. Burn (Newcastle upon Tyne, Tyne and Wear, United Kingdom)
- Age-dependent changes in glial cells from parkin null mice
 R.M. Solano, M.J. Casarejos, J. Menéndez-Cuervo, J.A. Rodríguez-Navarro, J. García de Yébenes, M.A. Mena (Madrid, Spain)

Poster Session 3

Thursday, June 7, 2007 - 12:30 PM - 2:30 PM Rumeli Hall, Lower Level Poster Viewing 9:00 a.m. to 4:00 p.m. Authors Present 12:30 p.m. to 2: 30 p.m. Poster numbers 663-973

Other Clinical

Poster numbers 663-708

- 663 High-level gait disturbance is a manifestation of the pyramidal, cortico-pontine and thalamic-demyelination in elderly people. MRI pilot study Y. Balash, M. Kafri, E. Sasson, O. Eizenstein, Y. Assaf, J.M. Hausdorff, N. Giladi (Tel Aviv, Israel)
- 664 Substantia nigra and olfactory function in idiopathic REM sleep behaviour disorder: A pilot study

V. Gschliesser, H. Stockner, B. Hogl, B. Frauscher, C. Schmidauer, W. Poewe (Innsbruck, Austria)

- 665 Ipsilateral upper limb asterixis and contralateral parkinsonism related to putaminal hemorrhage M.J. Kim, J.K. Kim, B.G. Yoo, K.S. Kim (Busan, Korea)
- 666 Botulinum toxin treatment is effective for epilepsia partialis continua
 J.-S. Kang, K. Krakow, H. Steinmetz, R. Hilker
 (Frankfurt/Main, Germany)
- Appearance of Kleine-Levin Syndrome (KLS) after acute infection
 K. Dimitrios, K. Konstantinos, B. Aggeliki (Athens, Greece)
- A system for syncronized recording and automatic processing of video- and biodata files in movement disorder evaluation

E. Nordh, M. Larsson, M. Johansson (Umea, Sweden)

- 669 High Prevalence of tremor, parkinsonism and neuropsychological impairment induced by mercury in handmade miners. Andacollo, IV region, Chile
 - F. Pancetti, G. Lam, P. Lillo, D. Saez, D. Moraga, S. Corral (Coquimbo, Chile)
- 670 An acquired neuromyotonia case non-associated to thymoma with significant clinical improvement after thymectomy

 M.A. Sierra-Beltrán, U. Rodríguez-Ortiz, J.A. Nader-

M.A. Sierra-Beltrán, U. Rodriguez-Ortiz, J.A. Nader-Kawachi, M.S. Rodriguez (Mexico City, DF, Mexico)

671 Movement Disorders at university hospital emergency room; an analysis of clinical pattern and etiology

P.H. Lee, J.H. Yoon, H.Y. Park, T.S. Lim, J.Y. Choi (Suwon, Gyeonggi, Republic of Korea)

- 672 Mirror movements in different neurological diseases
 - S. Sahin, S. Ayalp, S. Karsidag (Istanbul, Turkey)
- 673 3 cases of bilateral striatopallidodental calcinosis E. Lobsien, A. Bick-Sander, S. Eibach, K.-T. Hoffmann, T. Trottenberg, A. Kupsch (Berlin, Germany)
- 674 Posterior alien limb phenomenon as presenting symptom of bacterial endocarditis

 A. Glik, R. Inzelberg (Kfar Saba, Israel)
- 675 Methylphenidate improves cognition and reduces fall risk in older adults with cognitive decline: Single dose, placebo controlled, double-blind study

R. Ben-Itzhak, J.M. Hausdorff, E.S. Simon, N. Giladi (Tel-Aviv, Israel)

- 676 Two cases of primary progressive freezing gait with different chronologic progression and different imaging
 M. Kim, E. Son, S. Choi, K. Lee, S. Lee, M. Park, K. Cho (Gwangju, Korea)
- 677 The Dynamic Gait Index provides insight into stair climbing and fear of falling in healthy elderly men and women

 T. Herman, M. Brozgol, N. Ibar-Borovsky, N. Giladi, G.

T. Herman, M. Brozgol, N. Ibar-Borovsky, N. Giladi, G. Yogev, L. Grundlinger, J.M. Hausdorff (Tel Aviv, Israel)

- 678 Associated conditions and clinical significance of awake bruxism
 Y.T. Kwak, S.-H. Suk, W.-J. Kim (Yongin-shi, Kyeongki-do, Republic of Korea)
- 679 Nordic walking improves mobility in Parkinson's disease
 F. Vereijkeren, R. Reijmers, A. Minten, J.P. ter
 Bruggen ('sHertogenbosch, NB, Netherlands)
- 680 A progressive, fatal dystonia-parkinsonism syndrome in a patient with primary immunodeficiency receiving chronic IVIG therapy S. Papapetropoulos, J. Friedman, C. Blackstone, G.I. Kleiner, C. Sengun, C. Singer (Miami, Florida, USA)
- 681 New assessment concerning movement signs/ symptoms in atypical movements diseases consulted in units-setting. Treatment rationalizing S.G. Echebarria (Spain)
- 682 EEG comparison in early AD, LBD, PDD patients with a 2-year follow-up
 L. Bonanni, A. Thomas, L. Manzoli, M. Onofrj
 (Pescara, Italy)



- 683 Atypical PKAN, a broadening clinical spectrum: Case report and video N. Lubarr, S. Frucht, S.K. Westaway, A. Gregory, S.J. Hayflick (New York, New York, USA)
- Normal interhemispheric inhibition in persistent developmental stuttering
 M. Sommer, K. Knappmeyer, E.J. Hunter, A. Wolff von Gudenberg, W. Paulus (Goettingen, Germany)
- Patients with hyperhidrosis treated with botulinum toxin have changed grip force, coefficient of friction and safety margin
 T. Zackrisson, B. Eriksson, N. Hosseini, B. Johnels, A.L. Krogstad (Gothenburg, Sweden)
- 686 Long-term follow-up of deep brain stimulation: Timing of generator replacement M. Takanashi (Sapporo, Hokkaido, Japan)
- 687 The other babinski sign in hemifacial spasm W.P. Stamey, J. Jankovic (Houston, Texas, USA)
- 688 Electroconvulsive therapy for depression in a patient with right-sided VIM DBS V.C. Chang, D. Hardesty, B. Ford, P. Greene (New York, New York, USA)
- 689 Clinical and electrophysiological features of 12 patients with painful legs and moving toes M.V. Alvarez, V.G. Evidente, E.D. Driver-Dunckley, J.N. Caviness, C.H. Adler (Scottsdale, Arizona, USA)
- 690 A study on the effects of botulinum toxin A,
 Botox® and Dysport®, in patients with hemifacial
 spasm
 N. Wan Yahya, N. Mohamad Ibrahim, R. Sahathevan,
 H. Basri, R. Azman Ali (Kuala Lumpur, Malaysia)
- 691 New and associated motor signs in movement disorders units case sampling S.G. Echebarria (Spain)
- 692 Prevalence of movement disorders in Orhangazi district of Bursa, Turkey (a population-based door to door study) (Bursa, Turkey)
 M. Zarifoglu, S. Erer, N. Karli, A. Ozcakir, A. Semra, N. Caliskan, D. Aslan (Bursa, Turkey)
- Miraxion treatment for Huntington's disease a 2 year follow-up
 A. Clarke, B.R. Leavitt, M. Manku, A. Rosenblatt (Oxford, Oxfordshire, United Kingdom)
- 694 A new test to measure upper limb apraxia (TULIAS): A reliability study
 B. Van Hemelrijk, T. Vanbellingen, A. Van de Winckel,
 W. De Weerdt, S. Bohlhalter (Tschugg, Switzerland)

- 695 Clinical trial participation in Movement Disorders:
 Why do patients accept or reject?
 M.P. Silverstein, C.E. Jacobson IV, M.S. Okun, R.L.
 Rodriguez, H.H. Fernandez (Gainesville, Florida, USA)
- Analysis of survival in patients with Huntington's disease in Serbia
 I.N. Petrovic, M. Svetel, T. Pekmezovic, N. Dragasevic, V.S. Kostic (Belgrade, Serbia)
- 697 Motor neuron disease associated with copper deficiency in a case of Wilson's disease
 A. Foubert, A. Kasadi, M. Rouanet, A. Lagueny, F. Tison (Pessac, France)
- 698 Beneficial effect of Piracetam on obstructive sleep apnea syndrome in patients with multiple system atrophy Y. Nakamura, I. Yamada, H. Sakamoto (Sakai, Osaka, Japan)
- 699 Electroconvulsive therapy for a patient with lethal catatonia-neuroleptic malignant syndrome V.C. Chang, D. Hardesty, M. Pietro (New York, New York, USA)
- A rare combination of Klippel-Feil syndrome and pheochromocytoma: Case report
 S. Telarovic, T. Bajica, S. Juren, M. Relja (Zagreb, Croatia)
- 701 Safety and efficacy of Hengli® and Dysport® for primary hemifacial spasm: A randomized controlled trial
 Y.W. Wu, L.L. Zeng, S.D. Chen (Shanghai, China)
- 702 Paroxysmal kinesogenic dyskinesia following ischemic insult
 S.R. Daniels, K. Nakamura, G.A. Kang (San
 - S.R. Daniels, K. Nakamura, G.A. Kang (San Francisco, California, USA)
- Frontotemporal dementia due to VCP mutations:
 Clinical and functional neuroimaging findings
 D. Haubenberger, G. Pusswald, M. Hoffmann, A.
 Zimprich, E. Auff (Vienna, Austria)
- 704 Wilson's disease: A study of 21 cases from Indian subcontinent
 B. Sharma, R.K. Sureka, A. Panagariya, N. Agarwal, V. Agarwal, A. Dev (Jaipur, Rajasthan, India)
- 705 L-Dopa responsive movement disorder in a young patient with mixed connective tissue disease (sharp syndrome)
 S. Haegele-Link, A. Burrow, T. Hundsberger, B.

Tettenborn (St. Gallen, Switzerland)

706 Handtapping as a clinical marker for evaluating disease progression in Huntington's disease S.L. Mason, A.O.G. Goodman, A. Michell, R.A. Barker (Cambridge, Cambridgeshire, United Kingdom)

- 707 The role of proportion of cerebrospinal fluid total tau-protein levels to phosphorylated tau-protein levels in differential diagnosis of Creutzfeltd-Jacob disease

 M. Valis, J. Hort, R. Talab (Hradec Kralove, Czech Republic)
- 708 Alien hand syndrome and dystonia in a pediatric patient
 T. Soman, T. Steeves, A.E. Lang (Toronto, Ontario, Canada)

Parkinson's disease Poster numbers 709-829

- 709 Effects of subthalamic stimulation on brain electrical activity during a motor task in Parkinson's disease
 L. Colloca, F. Benedetti, M. Lanotte, M. Sigaudo, M. Zibetti, A. Cinquepalmi, S. Vighetti, A. Ducati, L. Lopiano (Turin, Italy)
- 710 Salsolinol decreases expression of the antral but not duodenal and colonic interstitial cells of Cajal T.A. Banach, A.T. Krygowska-Wajs, K.M. Gil, D. Zurowski, P.J. Thor (Cracow, Poland)
- 711 The differential diagnoses of Parkinsonism in outpatient clinics of PD Northumbria E. Stone, R. Walker, B. Wood (North Shields, United Kingdom)
- 712 Continuous duodenal levodopa infusion (DUODOPA) in advanced Parkinson's disease: First French experience
 M. Hery, F. Lallement, P. Sauleau, S. Drapier, I. Rivier, M. Verin (Rennes, France)
- 713 Good treatment compliance in patients with Parkinson's disease on ropinirole: The Ropi-Park study
 F. Valldeoriola, S. Cobaleda, Ropipark Study
 Research Group (Barcelona, Spain)
 714 Valuate hoart disease in Parkinson's disease
- 714 Valvular heart disease in Parkinson's disease patients treated with bromocriptine L.C.S. Tan, K.K.C. Ng, N.C.K. Tan, W.L. Au, R.K.K. Lee (Singapore, Singapore)
- 715 The diagnostic value of transcranial duplex scanning and SPECT imaging versus clinical diagnosis (clinical prospective study)
 S.C. Tromp, A.M.M. Vlaar, M.J.P.G. Kroonenburgh Van, W.H. Mess, T. de Nijs, A. Winogrodzka, A.G.H. Kessels, W.E.J. Weber (Maastricht, Netherlands)

- Roles of DJ-1, a causative gene product for familial Parkinson's disease, in dopamine biosynthesis
 S. Ishikawa, T. Taira, H. Maita, C. Maita, H. Ariga, S.M.M. Iguchi-Ariga (Sapporo, Japan)
- 717 Level of movement, cognitive and emotional disturbances and their correlation in patients with Parkinson's disease

 D.R. Hristova, I.S. Grozdev (Plovdiv, Bulgaria)
- 718 The QUICK questionnaire identifies wearing-off in Parkinson's disease patients
 P. Martinez-Martin, E. Tolosa, B. Hernandez, X. Badia (Madrid, Spain)
- 719 Dopamine dysregulation syndrome in Parkinson's disease patients: Preliminary results of a clinical study
 A. Gunduz, F. Beskardes, S. Ertan, S. Ozekmekci, G. Kiziltan (Istanbul, Turkey)
- 720 Pathological gambling in Parkinson's disease: An analysis of published case series
 D.A. Gallagher, S.S. O'Sullivan, A.H. Evans, A.J. Lees, A. Schrag (London, United Kingdom)
- 721 Driver safety errors in Parkinson's disease E.Y. Uc, M. Rizzo, J. Sparks, S.W. Anderson, R.L. Rodnitzky, J.D. Dawson (lowa City, lowa, USA)
- 722 Mitochondrial DNA polymorphisms and the risk of Parkinson's disease in Taiwan
 C.-M. Chen, C.-C. Kuan, G.-J. Lee-Chen, Y.-R. Wu
 (Taipei, Taiwan)
- 723 Social impact on Parkinson's disease caregivers and the impact of disease duration
 J. Loekk (Stockholm, Sweden)
- 724 Antibiotics and Parkinson's disease: Overview on literature and case reports
 K.S. Paulus, V. Agnetti, P. Galistu, G.A. Cocco, G. Sechi (Sassari, Sardegna, Italy)
- 725 Reversible Retrocollis in a case of Parkinson's disease with hyponatremia induced malignant syndrome
 - S. Chandran (Trivandrum, Kerala, India)
- 726 Comparison of pharmacokinetics and pharmacodynamics of combined immediate- and extended-release (IR+ER)/carbidopa/levodopa formulations (VADOVA IR+ER) with IR carbidopa/levodopa and controlled-release (CR) carbidopa/levodopa in Parkinson's disease (PD)

 J. Nutt, P.A. LeWitt, A. Ellenbogen, S. Wang, T. Nguyen, S. Khor, A. Hsu (Portland, Oregon, USA)

- Istanbul, Curkey
- 727 Rapid efficacy of a noradrenergic reuptake inhibitor in depression in advanced Parkinson's disease: A double-blind, randomized, placebocontrolled study
 - D. Devos, I. Poirot, K. Dujardin, S. Duhem, B. Lucas, N. Waucquier, C. Moreau, P. Bocquillon, P. Devos, K. Ajebbar, B. Thielemans, O. Cottencin, P. Thomas, A. Destée, R. Bordet, L. Defebvre (Lille, France)
- 728 Botulinum toxin treatment for anterocollis in Parkinson's disease
 H. Ito, Y. Takanashi (Akishima, Tokyo, Japan)
- 729 Novel LRRK2 mutation in the Roc domain in an Western Australian family with autosomal dominant late-onset Parkinson's disease (LOPD) F.L. Mastaglia, Y. Huang, G.M. Halliday, D.B. Rowe, C.M. Sue (Nedlands, WA, Australia)
- 730 Psychiatric features of caregivers of Parkinson's disease patients with dopamine dysregulation syndrome: Preliminary results of a clinical study F. Beskardes, A. Gunduz, G. Kiziltan, S. Ertan, S. Ozekmekci (Istanbul, Turkey)
- 731 Can dual-forceplate posturography support the diagnosis Parkinson's disease?
 A.C. Geurts, N. Voermans, M.G. Diender, V. Weerdesteyn, B.R. Bloem (Nijmegen, Netherlands)
- 732 Quality of life improvement in Parkinson's patients after DBS: Identifying the super-responders I.U. Haq, M.S. Okun, R. Rodriguez, K. Foote, C. Jacobson, C. Garvan, H. Fernandez (Gainesville, Florida, USA)
- 733 Increased Synphilin-1 expression in elderly and parkinsonian brains
 A.T. Krygowska-Wajs, T. Lenda, K.I. Ossowska, D. Adamek, E.A. Gryz-Kurek, J. Kunz (Cracow, Poland)
- 734 Exercise-induced alterations in striatal glutamate in an animal model of Parkinson's disease C.K. Meshul, J.K. Wiedemann, C. Moore, R.J. Koch, R.H. Walker (Bronx, New York, USA)
- 735 A computerized survey of pain in Parkinson's disease patients: A pilot feasibility study D.B. Page, F. Weaver, D.J. Wilkie, T. Simuni (Chicago, Illinois, USA)
- 736 Clinical correlates of camptocormia in Parkinson's disease
 D. Ottaviani, D. Tiple, C. Colosimo, G. Fabbrini, G. Defazio, A. Berardelli (Rome, Italy)
- 737 Reaching out to first degree relatives
 J. Posen, Z. Heiblum, N. Giladi (Tel Aviv, Israel)

- 738 Prevelance of dyskinesia switching from pulsatile to continuous rotigotine administration in MPTP-treated marmosets

 K. Stockwell, D.K.A. Scheller, S. Rose, M. Jackson, P.
 - K. Stockwell, D.K.A. Scheller, S. Rose, M. Jackson, P. Jenner (Monheim, Germany)
- 739 The effectiveness of pramipexole, cabergoline and pergolide in early and advanced Parkinson's disease and comparision of the results with each other

 O. Yilmaz, B. Yucel-Altan, S. Oruc, S. Gok, N.S.
 - O. Yilmaz, B. Yucel-Altan, S. Oruc, S. Gok, N.S Oztekin (Afyonkarahisar, Turkey)
- 740 Striatal dopamine transporter imaging correlates with depressive symptoms and Tower of London task performance in Parkinson's disease
 I. Rektorova, H. Srovnalova, R. Kubikova, J. Prasek (Brno, Czech Republic)
- 741 Nociceptin/orphanin FQ receptor antagonists reverse parkinsonism in MPTP-treated mice and non-human primates

 M. Morari, R. Viaro, M. Marti, R. Sanchez-Pernaute,
 O. Isacson (Ferrara, Italy)
- 742 Clinical characteristics of Parkinson's disease among Jewish ethnic groups in Israel
 R. Djaldetti, S. Hassin-Baer, M.J. Farrer, T.A. Treves,
 Y. Barhum, M.M. Hulihan, S. Yust-Katz, E. Melamed (Petah Tiqva, Israel)
- 743 Falls in Parkinson's disease: Analysis of the DoPaMiP study, a cross-sectional survey in South-West of France
 0.0. Rascol, L.L. Negre-Pages, DoPaMiP D. Study Group (Toulouse, France)
- 744 L-Dopa induced dyskinesia in Parkinson's disease: Analysis of the DoPaMiP study, a cross-sectional survey in South-West of France L.L. Negre-Pages, O.O. Rascol, DOPAMIP D. Study Group (Toulouse, France)
- 745 The natural history of treated Parkinson's disease J.J. Duarte, L.M. García Olmos, L.E. Clavería (Segovia, Spain)
- 746 Full-length expression of Park2 gene in human leukocytes
 M. Kasap, G. Akpinar, E. Ergul, H.A. Idrisoglu, A. Sazci (Kocaeli, Turkey)
- 747 Results of the PRAMI study: Description of the therapeutic management of patients with idiopathic Parkinson's disease (PD)

 M. Dujardin, P.L. Lleu (Paris, France, Metropolitan)

- 748 Chronic Captopril treatment accelerates injury in an early stage rat model of Parkinson's disease E. Thornton, R. Vink (Adelaide, SA, Australia)
- 749 Prevalence of non-motor symptoms in Parkinson's disease patients L. Vela, K.F. Lyons, J.A. Pareja, J.L. Dobato, F.J. Barriga, C. Sanchez, M. Baron, A.P. Polo, L. Borrega (Alcorcon, Madrid, Spain)
- 750 Identifying predictors of somnolence and edema in patients with early Parkinson's disease treated with pramipexole: A secondary analysis of the **CALM-PD** study K.M. Biglan, A. Brocht, M.P. McDermott, K. Kieburtz, Parkinson Study Group CALM-PD Investigators (Rochester, New York, USA)
- 751 Non-motor dysfunction contributes to swallowing dysfunction in PD and could be a target for future therapy N. Sengupta, H.N. Jones, J.C. Rosenbek, M.S. Okun, R.L. Rodriguez, F.M. Skidmore, C. Swartz, H.H. Fernandez (Gainesville, Florida, USA)
- 752 The impact of the use of Access Therapy Controller 762 Towards adaptive deep brain stimulation: on the postoperative outcome N. Kovacs, I. Balas, L. Kellenyi, E. Pal, F. Nagy (Pecs, Hungary)
- 753 Identifying predictors of response to pramipexole treatment in early Parkinson's disease: A secondary analysis of the CALM-PD study K.M. Biglan, A. Brocht, M.P. McDermott, K. Kieburtz. Parkinson Study Group CALM-PD Investigators (Rochester, New York, USA)
- 754 Prevalence and characteristics of punding among Parkinson patients in North-Central Florida F.N. Nguyen, Y.-L. Chang, M.A. Shapiro, C.E. Jacobson, C.L. Swartz, M.S. Okun, H.H. Fernandez (Gainesville, Florida, USA)
- 755 The scores of UPDRS correlate with objectively measured motor performance characteristics in Parkinson's disease K. Noorvee, D. Uueni, M. Paasuke, P. Taba (Tartu. Estonia)
- 756 Task-specific limb dystonia with slow onset: Initial symptom of Parkinson's disease or association of two diseases?
 - I. Nestrasil, P. Kanovsky (Olomouc, Czech Republic)
- 757 Retention rate and tolerability of rotigotine transdermal skin patch for a "real life" population of Parkinson's disease patients in the UK P. Reddy, S. Muzerengi, A. Forbes, R. Weeks, K. Ray Chaudhuri (London, United Kingdom)

- 758 Comparison of proton-MR-spectroscopy of the substantia nigra in patients with Parkinson's disease, relatives and controls A. Di Santo, U. Klose, K. Schweitzer, J. Godau, D. Berg (Tuebingen, Baden-Wurttembe, Germany)
- 759 Additional value of SPECT imaging in comparison with clinical diagnosis in 248 patients with parkinsonism A.M.M. Vlaar, M.J.P.G. Kroonenburgh Van, T. Nijs De. W.H. Mess. S.C. Tromp. A. Winogrodzka, W.E.J. Weber (Maastricht, Netherlands)
- 760 Anti-psychotic treatment discontinuation and drug-induced psychosis in Parkinson's disease F. Morgante, A. Epifanio, M. Zappia, R. Marconi, G. Paolo, A. Quartarone, A. Quattrone, L. Morgante (Messina, Italy)
- 761 PD patients with STN-DNS gain weight in relation to motor improvement: A prospective study A. Foubert, E. Krim, C. Perlemoine, P. Burbaud, E. Cuny, S. Maurice-Tison, V. Rigalleau, F. Tison (Pessac, France)
- Recording local field potentials during stimulation L. Rossi, G. Foffani, S. Marceglia, A. Priori (Milan, Italy)
- 763 A comparison of cerebral glucose metabolism in Parkinson's disease, Parkinson's disease dementia, and dementia with Lewy bodies S.W. Yong, P.H. Lee, Y.J. Kim (Suwon, Kyunggi-do, Korea)
- 764 Extraction of typical features from surface EMG signals in Parkinson's disease S.M. Rissanen, M. Kankaanpää, M.P. Tarvainen, J. Nuutinen, I.M. Tarkka, A. Meigal, O. Airaksinen, P.A. Karjalainen (Kuopio, Finland)
- 765 Low dose methylphenidate improves freezing in advanced Parkinson's disease during off-state L. Pollak, E. Dobronevsky, T. Prokhorov, S. Bahunker, J.M. Rabey (Zerifin, Israel)
- 766 Cerebrovascular risk factors and procedural learning in idiopathic Parkinson's disease E. Pourcher, H. Cohen (Quebec, Quebec, Canada)
- 767 Starting therapy in Parkinson's disease with L-dopa or agonists and the occurrence of late Ldopa motor problems in daily practice M.W.I.M. Horstink, C.A. Haaxma, G.F. Borm, B.R. Bloem (Nijmegen, Netherlands)

- 768 Correlation between postural changes and cognitive impairment in Parkinson's disease G. Marco, P. Lucia, P. Susv. F. Sandro, S. Maura (Ancona, Italy)
- 769 Parkinson's disease, malignant melanoma and body mass index E.C. Lai, S. Moore (Houston, Texas, USA)
- 770 Cognitive effects of safinamide in early Parkinson's disease (PD) patients T. Sharma, R. Anand, F. Stocchi, R. Borgohain, S. Rossetti, 015 Study Group (Newark, Delaware, USA)
- 771 The effectiveness of pramipexole and levodopa as an initial treatment for Parkinson's disease N.S. Öztekin, M.F. Öztekin, R.S. Polat, B. Renkliyildiz (Ankara, Turkey)
- 772 The data base of "Quality Development in Neurology and Psychiatry (QUANUP)"-group - results of the Parkinson's disease pilot project M. Muengersdorf, P. Scherer, A. Simonow, P. Reuther, R. Ehret (Berlin, Germany)
- 773 Levetiracetam administration for the management of levodopa-induced dyskinesias in Parkinson's disease: An ongoing, multicenter, double-blind, placebo-controlled, parallel, crossover trial (the VALID-PD study) study design and baseline patient characteristics P. Stathis, S. Konitsiotis, G. Tagaris, V. Kyriakakis, G. Hadjigeorgiou, The VALID-PD Study Group (Athens,
- 774 Factors that influenced in quality of life in parkinsonian patient according SF-36 (short form -36)

Greece)

- A. Machin, M. Hamdan, Y. Saelan (Surabaya, East Java, Indonesia)
- 775 Freezing of gait severity and executive dysfunction in patients with Parkinson's disease M. Amboni, A. Cozzolino, K. Longo, M. Picillo, P. Barone (Naples, Italy)
- 776 Comparative scintigraphic analysis of the parotid glands in healthy volunteers and in patients with sialorrhea and Parkinson's disease (PD) D.H. Nicaretta, A.L.Z. Rosso, C. Maliska, J.P. de Mattos, S.A.P. Novis, M.M.B. Costa (Rio de Janeiro, RJ, Brazil)
- 777 Dementia and depression in Parkinson's disease A. Akyol, A. Ozkul, E. Turgut, E. Yilmaz, U. Akyildiz, S. Memis (Aydin, Turkey)

- 778 Clinical characteristics and prevalence of Parkinson's disease in orhangazi district of Bursa, Turkey (a population-based door to door study) (Bursa, Turkey) M. Zarifoglu, S. Erer, N. Karli, M. Boz, A. Bican (Bursa, Turkev)
- 779 Midbrain iron measured with MRI in early Parkinson's disease W. Martin, M. Wieler, M. Gee (Edmonton, Alberta,
- 780 COMT val158met genotype influences attentional control in Parkinson's disease C.H. Williams-Gray, A. Hampshire, A.M. Owen, R.A. Barker (Cambridge, United Kingdom)
- 781 Long-term efficacy and safety of zonisamide in advanced Parkinson's disease M. Murata, K. Hasegawa, I. Kanazawa (Tokyo, Japan)
- 782 An overview of specialist multidisciplinary services for Parkinson's disease patients at Llandough Day Hospital M.M. Oliver, P.C. Sewter, E. Morgan, J. Pinkerton, B. Clarke (Penarth, Vale of Glamorgan, United Kingdom)
- 783 Neuropsychological effects of bilateral STN DBS in advanced Parkinson's disease R. Borgohain, R. Reddy, M.K. Panigrahi, S. Shanmukhi, T. Suryaprabha, A. Jabeen (Hyderabad, Andhra Pradesh, India)
- 784 Postural verticality problems in parkinson patients B.R. Bloem, K.A.B. Ravenshorst, I. Benatru, A.S. Gissot, D. Pérennou (Nijmegen, Netherlands)
- 785 Pathological gambling in Parkinson's disease M. Yamamoto, Y. Kagevama (Takamatsu, Japan)
- 786 Dopamine dysregulation syndrome is similarly common among Parkinson's disease patients treated with rotigotine transdermal patch as with ropinirole
 - N. Giladi, H. Shabtai, A. Levi, T. Gurevich, Y. Balash, I. Girshovich, C. Peretz (Tel Aviv, Israel)
- 787 Myocardial [(123)I] metaiodobenzylguanidine is preserved uptake in hereditary Parkinson's disease with LRRK2 I2020T mutation (HPD Sagamihara family) Y. Ogino, M. Ogino, S. Ujiie, F. Sakai (Sagamihara, Kanagawa, Japan)
- 788 Nighttime sleep problems and daytime sleepiness in Parkinson's disease D. Verbaan, S.M. van Rooden, M. Visser, J. Marinus, J.J. van Hilten (Leiden, Netherlands)

- 789 Comparison of sympathetic skin response and urodynamic study in Parkinson's disease M. Tavsan, O. Mertoglu, U. Sener, Y. Zorlu, F. Zorlu (Izmir, Turkey)
- 790 Influence of intestinal levodopa on non-motor symptoms of Parkinson's disease – a case report M. Koegl-Wallner, R. Saurugg, P. Schwingenschuh, P. Katschnig, K. Wenzel, M. Maric, T. Hinterleitner, E. Ott (Graz, Styria, Austria)
- 791 Use of Parkinson's disease sleep scale (PDSS) and polysomnography in "sleepy" Parkinson's disease (PD) patients
 S. Muzerengi, A. Williams, V. Dhawan, D. Whitehead, P. Martinez-Martin, K. Ray Chaudhuri (London, United Kingdom)
- 792 Results of the PRAMI study: Prevalence of neuropsychiatric symptoms in patients with idiopathic Parkinson's disease (PD)
 M. Dujardin, P.L. Lleu (Paris, France)
- 793 Community based prevalence study of Parkinson's disease describing age at onset distribution in Cardiff, UK M.M. Wickremaratchi, E. Morgan, C. O'Loghlen, D. Sastry, N.P. Robertson, Y. Ben-Shlomo, H.R. Morris (Cardiff, United Kingdom)
- 794 Placebo influences on dyskinesia in Parkinson's disease
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- 795 New formulation of carbidopa/levodopa (IPX054 (VADOVA IR+ER) vs. standard carbidopa/levodopa in stable PD patients
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- 796 Tolcapone (TASMAR®) in the treatment of advanced Parkinson's disease: Results of a postmarketing surveillance study
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- 797 Safinamide potentiates the effects of DA-agonists in early stage Parkinson's disease (PD) patients R. Anand, M. Onofrj, A.H. Schapira, S.M. Rossetti (Pescara, Italy)
- 798 Automated gait detection algorithm from three dimensional acceleration signals of ankles in patients with Parkinson's disease J.-Y. Kim, J.-Y. Lee, K.S. Park, B.S. Jeon (Seoul, Jongno-Gu, Korea)

- 799 Dementia in Parkinson's disease (PD): A 20-year prospective Sydney Multicentre study W.G.J. Reid, M.M.A. Hely, J.G.J.L. Morris, C.T. Loy, G.M. Halliday (Sydney, NSW, Australia)
- Treatment of levodopa induced dyskinesias with Levetiracetam
 D. Richardson, M. Eisa, A. Toenjes, R. Bajwa, D. Miller, B. Jabbari (New Haven, Connecticut, USA)
- 801 Anxiety, depression and swallowing disorders in patients with Parkinson's disease
 Y. Manor, B. Meirav, N. Giladi, R. Mootanah, J.T. Cohen (Tel-Aviv, Israel)
- 802 Healthcare educational needs and experiences of people living with Parkinson's disease (PD): An exploratory study
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- 803 Unilateral haemorrhage in Gpe (globus pallidum externum) improving the Parkinsonian and psychotic symptomatology. A case report M. Baláž, I. Rektorová, I. Rektor (Brno, Czech Republic)
- 804 Increased periodontal disease and tooth loss in Parkinson's disease
 A. Hanaoka, K. Kashihara (Okayama, Japan)
- 805 Punding in Parkinson's disease
 A. Bora Tokcaer, O. Kapucu, N. Erdogmus Ince, U.O.
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- 806 Long-term pre-administration of dopamine agonists alters L-dopa induced circling behavior in the 6-OHDA lesioned rat E.L. Lane, S.B. Dunnett (Cardiff, Wales, United Kingdom)
- 807 Increased resting-state functional connectivity in de novo, untreated Parkinson's disease
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- 808 Interleukin-10 gene transfection of C17.2 cells improves behavior in rat model of Parkinson's disease through inhibition of microglia activation X.-J. Wang*, W.-G. Liu*, Y.-H. Zhang, G.-Q. Lu, S.-D. Chen (China)
- 809 Shoulder pain in Parkinson's disease W.P. Stamey, J. Jankovic (Houston, Texas, USA)
- 810 Apolipoprotein E polymorphism and Parkinson's disease
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- 811 Prevalence of sporadic Parkinson's disease in Arabic villages in Israel: A door-to-door study

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- 812 Parkinson's disease: A dual hit hypothesis C.H. Hawkes, K. Del Tredici, H. Braak (Romford, Essex, United Kingdom)

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- 813 Increase in vitamins A,C and E in Parkinson's disease following pramipexole treatment Y. Iwasaki, K. Ikeda, O. Kano (Tokyo, Japan)
- 814 Speech dysfunction in drug-naive patients with early Parkinson's disease and its response to dopaminergic therapy
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- 815 Hyponatremia and rhabdomyolysis induced by pramipexole during the treatment of Parkinson's disease
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- 816 Pathological gambling secondary to dopaminergic therapy in Parkinson's disease
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- 817 Experiences using Japanese translation of wearing-off questionnaire (19 symptoms)
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- 818 N-acetyltransferase 2 polymorphism and risk factors in early onset Parkinson's disease G.A. Klodowska-Duda, J. Samelska, B. Jasinska-Myga, M. Bialecka, K. Safranow, U. Mazurek, G. Opala (Katowice, Poland)
- 819 Better sexual function in women with Parkinson's disease: A case control study
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- 820 The neuronal activity of putamen in patients with Parkinson's disease before treatment
 K. Isonishi, F. Moriwaka, S. Kaneko, T. Kashiwaba (Sapporo, Japan)
- 821 Pain patients in Parkinson's disease S.O. Machnev, O.S. Levin (Moscow, Russian Federation)
- 822 Smell identification in Parkinson and Alzheimer patients: Are Tabert et al's* odours appropriate for PD?
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823 Dietary factors in Korean patients with Parkinson's diseaseT.-B. Ahn, J.Y. Lee, B.S. Jeon, J.-W. Cho, K.H. Seo,

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- 824 Alpha-synuclein-overexpressing neurosphere as an in vitro model of alpha-synucleinopathies M. Fukuda-Tani, T. Yasuda, H. Mochizuki, Y. Mizuno (Tokyo, Japan)
- B25 Direct and indirect costs in Parkinson's disease: A patient survey
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- 826 The familial Parkinsonism gene LRRK2 regulates neurite process morphology
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- 827 Urinary dysfunction in Parkinson's disease H. Blackett, R. Walker, B. Wood (Ashington, Northumberland, United Kingdom)
- 828 Results of rotigotine transdermal patch in advanced Parkinson's patients with motor fluctuations and in combination with levodopa: Results of the CLEOPATRA-PD trial W. Poewe, W.H. Oertel, E. Martignoni, E. Tolosa, N.P. Quinn, B. boroojerdi, M. Rupp (Innsbruck, Austria)
- 829 Screening for Parkinson's disease in underserved communities in Alachua County, Florida R.L. Stephen, M.S. Okun, C.W. Garvan, C.E. Jacobson, R.L. Rodriguez, H.H. Fernandez (Ganesville, Florida, USA)

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- 830 In vivo magnetic resonance imaging, sensorimotor behavioral and pathological phenotyping of aged PLP-SYN transgenic mouse model of multiple system atrophy P.-O. Fernagut, M. Biran, A. Vital, G. Raffard, J.-M. Franconi, K.G. Petry, P.J. Kahle, F. Tison (Bordeaux, France)
- 831 The "risus sardonicus": A warning sign of multiple system atrophy
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- 832 Intracranial dural arteriovenous fistula presenting with Parkinsonism
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- 833 "Applause Sign" secondary to infiltrative cerebral lymphoma
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 - T. Wilhelm, A. Gale, A. Schrag (London, United Kingdom)
- 834 The specificity and sensitivity of "applause sign" in differentiating PSP and other parkinsonian syndromes
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- 835 A new American kindred with hereditary diffuse leukoencephalopathy with spheroids (HDLS)
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- 836 Epidemiological data of nervous diseases in Ukraine
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- 837 Atypical PSP: A radiological diagnosis V.K. Gontu, D.P. Auer, N.B. Bajaj (Derby, United Kingdom)
- 838 A combined case of tauopathy and Alphasynucleinopathy
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- 840 Manganese encephalopathy due to methcathinone abuse
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- 841 A focus on head drop and camptocormia N. Yardimci (Ankara, Turkey)
- 842 Acquired hepatocerebral degeneration and dopamine transporter imaging using [123I]-FP-CIT SPECT
 - J.-M. Kim, Y.K. Kim, S.E. Kim, B.S. Jeon (Seongnamsi, Korea)
- 843 Possibility of development of forms of pathological dependence on levodopa preparations and its prevention
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- 845 Olfaction in dardarin/LRRK2 associated Parkinsonism
 - L. Silveira Moriyama, L.C. Guedes, A. Kingsbury, J.J. Ferreira, C. Sampaio, E.R. Barbosa, V. Bonifati, N.P. Quinn, A.J. Lees (London, United Kingdom)
- 846 Annonacin, a natural mitochondrial complex I inhibitor, causes tau pathology in cultured neurons M. Escobar Khondiker, M. Höllerhage, P.P. Michel, M.-P. Muriel, P. Champy, T. Yagi, A. Lannuzel, E.C. Hirsch, W.H. Oertel, R. Jacob, M. Ruberg, G.U. Höglinger (Marburg, Germany)
- 847 Unusual presentation of progressive supranuclear palsy with palatal and diaphragmal myoclonus: A case report
 - N.M. Browner, S. Fahn (New York, New York, USA)
- 848 Treatment of camptocormia by ultrasound-guided deep ventral injection of botulinum toxin to the iliopsoas muscle
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 - R. von Coelln, A. Raible, F. Asmus (Tuebingen, Germany)
- 849 Anti-beta2-glycoprotein I antibody and vascular Parkinsonian
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- 850 Comparison of brain MRI and 18F-FDG PET in the differential diagnosis of multiple system atrophy from Parkinson's disease S.J. Chung, K.Y. Kwon, C.G. Choi, J.S. Kim, S.K. Lee, C.S. Lee, M.C. Lee (Seoul, Republic of Korea)
- 851 The cognitive profile versus motor severity and clinical course of patients with Parkinsonism associated to vascular disease (vascular Parkinsonism) and Parkinson's disease C. Panea, H. Nicolae, I. Codita, G. Vulpe (Bucharest, Romania)
- 852 Severity of tau deposition in progressive supranuclear palsy is associated with clinical phenotype
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- 854 CBD correlation of FDG PET, MRI and cognitive features
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- 855 Parkinson plus syndromes in a primary peripheral neurological center
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- 856 High dose levodopa therapy is not toxic in multiple system atrophy: Experimental evidence
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- 859 Sleep disorders in Parkinson's disease: A correlation with clinical characteristics
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- 860 Parkinsonism as late-onset side effect of cerebral radiotherapy. A case report
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- 861 Acute akinetic mutism due to subdural tension pneumocephalus
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- 862 Red flags for multiple system atrophy M. Kollensperger, K. Seppi, F. Geser, M. Sawires, N.P. Quinn, V. Koukouni, P. Barone, M.T. Pellecchia, W.H. Oertel, N. Schimke, E. Dupont, G. Deuschl, C. Daniels, N. Giladi, T. Gurevich, C. Sampaio, M. Coelho, O. Lindvall, C. Nillson, A. Albanese, F. Del Sorbo, E. Tolosa, A. Cardozo, T. Klockgether, M. Abele, R. Djaldetti, G. Meco, C. Colosimo, W. Poewe, G.K. Wenning (Innsbruck, Austria)
- 863 Creutzfeldt-Jacob disease mimicking progressive supranuclear palsy
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- 866 Clinical characterization of a Chilean family with Kufor Rakeb disease and mutations in ATP13A2, a lisosomal ATPase M.I. Behrens, P. Chana, T. Parrao, P. Venegas, M.
 - M.I. Benrens, P. Chana, I. Parrao, P. Venegas, M. Miranda, C.V. Rojas, A. Ramirez (Santiago, Chile)
- 867 Atypical PSP: A representative case series V.K. Gontu, D.P. Auer, N.B. Bajaj (Derby, United Kingdom)
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- 869 Clinical phenptypes of Parkinson's disease:
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- 870 Clinical and imaging characteristics of a dominant kindred with benign Parkinsonism and doparesponsive dystonia
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- 871 Reversible parkinsonism in a patient with Whipple's disease
 E. Gasparoli, P. Zamboni, M. Siviero, R. Manara, R. Marcolongo, N. Bonetto, C. Briani (Padova, Italy)
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- 873 Freezing of gait in older adults with high level gait disorders: Association with impaired executive function
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- 874 Parkinsonism in antiphospholipid syndrome a case report and literature review Y.-R. Wu, Y.-C. Huang, R.-K. Lyu (Taipei, Taiwan)
- 875 CSF hypocretin-1 levels are normal in multiple system atrophy
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- 876 Brain energy metabolism and effects of coenyzme Q10 (CoQ10) in progressive supranuclear palsy (PSP)

 M. Stamelou, H. Pilatus, K.M. Eggert, W.H. Oertel
 - M. Stamelou, U. Pilatus, K.M. Eggert, W.H. Oertel, G.U. Hoeglinger (Marburg, Germany)

877 Levodopa response in parkinsonism with multiple mitochondrial DNA deletions
 R.A. Wilcox, A. Churchyard, H. Dahl, W. Hutchinson,
 D. Kirby, D. Thyagarajan (Brisbane, QLD, Australia)

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- 878 A patient survey assessing symptomology and treatment trends of Restless legs syndrome in the UK
 S Tluk A Bharkhada F Gill K Bay Chaudhuri
 - S. Tluk, A. Bharkhada, E. Gill, K. Ray Chaudhuri (London, England, United Kingdom)
- 879 Lack of drug drug interactions between transdermal rotigotine and oral contraceptives M. Braun, J.-P. Elshoff, J.-O. Andreas, B. Strauss, R. Horstmann (Monheim am Rhein, Germany)
- 880 Clinical characteristics and prevalence of Restless legs syndrome in orhangazi district of Bursa, Turkey (a population-based door to door study) (Bursa, Turkey)
 S. Erer, M. Zarifoglu, N. Karli, S. Akgoz, C. Cavdar
 - S. Erer, M. Zarifoglu, N. Karli, S. Akgoz, C. Cavdai (Bursa, Turkey)
- 881 Restless legs syndrome in Parkinson's disease
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 A. Budzianowska, M. Golab-Janowska, K.

Honczarenko (Szczecin, Poland)

- 882 Restless legs syndrome (RLS): A community-based study from Argentina
 G. Persi, A. Ayarza, J.L. Etcheverry, V. Parisi, G. Pariso, E.M. Gatto (Buenos Aires, Argentina)
- 883 Botulinum toxin a treatment can improve symptoms of Restless legs syndrome
 D. Richardson, R. Bajwa, M. Eisa, D. Miller, V. Mohsenin, B. Jabbari (New Haven, Connecticut, USA)
- 884 Restless legs syndrome and chiari type 1 malformation
 - Y. Kaplan (Tokat, Turkey)
- 885 Disruption of working life among persons with moderate to severe Restless legs syndrome E. Lainey, S. Albrecht, J. Koester (Ridgefield, Connecticut, USA)
- 886 Clinical characterization of familial and sporadic Restless legs syndrome L.A. Brown, S.-C. Lin, J.E. Young, R.J. Uitti, Z.K. Wszolek (Jacksonville, Florida, USA)
- 887 Pregabalin in Restless legs syndrome with and without neuropathic pain
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- 888 Pramipexole is effective treatment for RLS patients suffering from afternoon or early evening RLS symptoms
 A.S. Walters, E. Lainey, J. Koester (Edison, New
 - A.S. Walters, E. Lainey, J. Koester (Edison, New Jersey, USA)
- 889 Burden of illness associated with Restless legs syndrome: Findings from patients visiting primary care settings in the US
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- 890 Restless legs syndrome and menopause Y. Kaplan, H. Aytan, F. Demirturk, A.C. Caliskan (Tokat, Turkey)
- 891 Pramipexole for Restless legs syndrome (RLS) in patients with comorbid cardiovascular (CV) disease
 J.W. Winkelman, E. Lainey, J. Koester (Brighton, Massachusetts, USA)
- 892 Restless arms syndrome heralding MGUS-related anti-MAG polyneuropathy
 J. Horvath, T. Landis, P.R. Burkhard (Geneva, Switzerland)
- 893 MRI determined brain iron deficiency in Restless legs syndrome (RLS)
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- 894 Prevalence of Restless legs syndrome in a primary-care population
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- 895 Cognitive functions in patients with Restless legs syndrome
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- 896 Pramipexole improves daytime symptoms among patients with Restless legs syndrome (RLS) with impaired daytime function
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- 897 Pain in the Restless legs syndrome is more common in patients with frequent RLS W.A. Hening, R.P. Allen, C.J. Earley, C. Allen, C. Hening (New York, New York, USA)
- 898 Circadian time course of laser evoked potentials (LEP) and laser induced pain thresholds in patients with idiopathic RLS
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- 899 Where dopamine meets opioids: A meta-analysis of the placebo effect in RLS treatment studies S. Fulda, T.C. Wetter (Munich, Germany)
- 900 Dose-response relationships for pramipexole in Restless legs syndrome
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- 901 Rotigotine transdermal patch provides high responder rates in patients with Restless legs syndrome 24 month results from a multinational, multi-centre, open-label, follow-up trial C. Trenkwalder, K. Stiasny-Kolster, D. Garcia-Borreguero, B. Hoegl, J. Keffel, E. Schollmayer, W.H. Oertel (Kassel, Germany)
- 902 The prevalence of Restless legs syndrome and its association with peripheral neuropathy in dialysis patients
 A. Bogucki, A. Pozdzik-Koseda, J. Wyroslak (Zgierz,
- Poland)
 903 Restless legs syndrome a clinical, etiological and electrophysiological study
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- 904 Sleep problems in patients with RLS have a negative impact on quality of life and increase the RLS health burden R.P. Allen, P. Stillman, A.J. Myers (Baltimore, Maryland, USA)

Spasticity

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Tamilnadu, India)

- 905 Autosomal dominant spastic paraplegia (SPG36) with sensory deficits and muscle wasting maps to chromosome 12q23-24
 K. Karle, M. Bonin, A. Durr, S. Forlani, J. Kassubeck,
 - S. Klimpe, A. Seibel, B.P.C. van de Warrenburg, P. Bauer, L. Schols (Tubingen, Germany)
- 906 SPG10 is responsible for about 3% of autosomal dominant spastic paraplegia in Germany
 K. Karle, R. Schule, J. Kassubeck, S. Klimpe, T. Klopstock, S. Otto, L. Schols (Tubingen, Germany)
- 907 Retrospective cross-over evaluation of two botulinum toxin type A preparations (Botox® and Dysport®) in the treatment of upper limb spasticity
 - Y. Parman, H. Hanagasi, B. Topcular (Istanbul, Turkey)
- 908 Botulinum toxin to treat spasticity secondary to ipsilateral cerebellopontine oligodendroglioma A.M.L. Quek, R.C.S. Seet, E.C.H. Lim (Singapore)

- 909 Quality of life following botulinum toxin (Dysport) in upper limb spasticity following stroke
 A. Hughes, I. Baguley, L. Davies, S. de Graaff, P. Katrak, P. McCrory, J. Sandanam (Melbourne, VIC, Australia)
- 910 Clinical and electrophysiological evaluation of post stroke spasticity an attempt to correlate R.R. Garlapati, M. Umaiorubahan (Chennai, Tamilnadu, India)
- 911 Spasticity treatment with BTX-A improves the functional hand development in patients with cervical spinal cord injury
 E. Gasparoli, F. Piccione, A. Merico, M. Cavinato (Venezia Lido, VE, Italy)
- 912 A "N=1" randomized placebo-controlled multiple cross-over pilot study of FP0011, a novel antiglutamate agent, in advanced PD 0.0. Rascol, L. Lacomblez, J. Ferreira, L. Negre-Pages, J.-C. Lemarie, L. Bossi (Toulouse, France)
- 913 Comprehensive spasticity treatment for institutionalized adults with mental retardation C.E. Gill, C.R. Blair, H.M. Taylor, C. Nixon, P.D. Charles (Nashville, Tennessee, USA)
- 914 Analysis of surgical intrathecal [i.t.] baclofen [ITB] implant results emphasizing revision surgery in a mixed pediatric/adult population Y.M. Awaad, N. Roosen, K. McIntosh, M. Waines (Bloomfield Hills, Michigan, USA)
- 915 Functional assessment following intrathecal baclofen therapy in children with spastic cerebral palsy
 - Y.M. Awaad (Bloomfield Hills, Michigan, USA)
- 916 Retrospective cross-over evaluation of two botulinum toxin type A preparations (Botox® and Dysport®) in the treatment of lower limb spasticity
 - Y. Parman, H. Hanagasi, B. Topcular (Istanbul, Turkey)
- 917 Botulinum toxin treatment for hip flexor spasticity in older children and adults a report on 22 patients
 - A. Stenner, G. Reichel, W. Hermann (Zwickau, Germany)

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- 919 Adult onset simple phonic tic after caudate stroke G. Meritxell, P.-S. Claustre, P. Victor, V. Rosa, O. Carlos, R. Jaume (Barcelona, Spain)
- 920 Deep brain stimulation for tourette syndrome:
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- 921 Fragile X syndrome associated with tic disorders S.A. Schneider, M.M. Robertson, R. Rizzo, J. Turk, K.P. Bhatia. M. Orth (London, United Kingdom)
- 922 Determinants of quality of life in Gilles de la Tourette syndrome S.S. Al Faqih (Ramadi, Iraq)
- 923 Motor tics in a patient with Joubert syndrome A.A. Contreras, J.J. Guzman de Villoria, A.A. Traba, F.F. Grandas (Madrid, Spain)
- 924 Quality of life of patients with Gilles de la Tourette's syndrome: Results of the pilot study F. Galland, L. Malet, Y. Worbe, A. Hartman, L. Mallet, P.-P. Derost, D. Morand, I. de Chazeron, P.-M. Llorca, Y. Agid, F. Durif, I. Jalenques (Clermont-Ferrand, France)
- 925 Ziprasidone in treatment of tics in Tourette syndrome
 M. Blazquez-Estrada, M.T. Calatayud-Noguera, B. Blazquez-Menes (Oviedo, Asturias, Spain)
- 926 A case of a patient with coexistent Tourette syndrome and benign hyperbilirubinemia S.G. Khachatryan, Z.D. Tavadyan, G.R. Melikyan (Yerevan, Armenia)
- 927 Two cases of coexistent Tourette syndrome and temporal lobe epilepsy
 2.D. Tavadyan, S.G. Khachatryan, G.R. Melikyan (Yerevan, Armenia)
- 928 Biofeedback assisted relaxation training for children and adolescents with tics and associated disorders

 S. Natriashvili, H. Haller, S. Ohmann, C. Ponow
 - S. Natriashvili, U. Haller, S. Ohmann, C. Popow (Vienna, Austria)
- 929 Excitability of cortico-spinal system at rest is associated with tic severity in Gilles de la Tourette syndrome

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 - M. Orth, A. Münchau, J.C. Rothwell (London, United Kingdom)
- 930 Behavioral deficits in rats selectively bred for deficient prepulse inhibition of the startle response
 - K. Schwabe, M. Dieckmann, J.K. Krauss, M. Koch (Hannover, Germany)

- 931 Motor and behavioral outcomes after bilateral GPi deep brain stimulation for severe Tourette syndrome
 - J. Shahed, J. Poysky, C. Kenney, R. Simpson, J. Jankovic (Houston, Texas, USA)
- 932 Tic disorders associated to epilepsy: 2 cases H. Alonso-Navarro, T. Adeva-Bartolomé, F.J. Jiménez-Jiménez (Salamanca, Spain)
- 933 Early-onset Tourette syndrome F. Richer, P. Lesperance, S. Chouinard, G. Rouleau (Montreal, Quebec, Canada)

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- 935 Novel molecular mechanism of essential tremor
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 A.G. Shaikh, S. Ramat, L.M. Optican, K. Miura, D.S.
 Zee (Baltimore, Maryland, USA)
- 936 Connexin gap junctions neurophysiological correlate and therapeutic target for oculopalatal tremor
 A.G. Shaikh, S. Hong, D. Solomon, K. Liao, L.M. Optican, R.J. Leigh, D.S. Zee (Baltimore, Maryland, 1993)
- 937 The effect of muscle loading on tremor dynamical characteristics in the essential tremor patients
 S. Blesic, J. Maric, N. Dragasevic, S. Milanovic,
 V.S. Kostic, M.R. Ljubisavljevic (Al Ain, United Arab Emirates)
- 938 Effectiveness of piracetam in action tremor/ myoclonus of patients with Parkinson's disease R. Neshige (Kurume City, Fukuoka, Japan)
- 939 An open label study of pramipexole for the treatment of essential tremor
 - L. Lay-Son, D. Saez, O. Trujillo (Santiago, Chile)
- 940 Disappearance of essential tremor after capsular infarction
 - N.S. Oztekin, M.F. Oztekin (Ankara, Turkey)
- 941 Impaired motor speech and balance control in essential tremor
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- 942 Essential tremor easy to see, difficult to describe and control
 N. Yardimci, S. Benli (Ankara, Turkey)

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- 943 Health-related quality of life in essential tremor patients undergoing deep brain stimulation
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- 944 The spectrum of orolingual tremor a proposed classification system
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- 945 Evaluation of postoperative outcome on tremor due to posterior fossa tumors
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- 946 Unilateral tremor associated with autosomal dominant essential tremor
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- 947 Internal Family Systems psychotherapy successfully applied in two cases of psychogenic tremor F.P. Le Doze, L. Carluer, G.L. Defer, R.C. Schwartz (Caen Cedex. France)
- Dopa- responsive pseudo-orthostatic tremor in parkinsonism
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 K. Armellino, A. D'Andreagiovanni, D. Monaco, M. Onofri (Pescara, Italy)
- 949 Lack of association between catecholamine-Omethyl transferase Val158Met polymorphism and essential tremor E. Ergul, A. Sazci, K. Bayulkem (Kocaeli, Turkey)
- 950 Adult-onset Alexander disease with palatal tremor and intraventricular tumor
 Y. Okuma, T. Hirayama, J. Fukae, K. Noda, K.

Fujishima, N. Hattori (Izunokuni, Shizuoka Prefecture, Japan)

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- 951 Confirmation that dystonic tremor with features of parkinsonism is a cause of scans without evidence of dopaminergic deficit (SWEDDs)
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- 952 Quantitative tremor analysis in 300 consecutive tremor patients
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- 953 The effect of oxcarbazepine on essential tremor N. Yardimci, S. Benli (Ankara, Turkey)

- 954 Bilateral effects of unilateral deep brain stimulation
 N. Kovacs, I. Balas, L. Kellenyi, E. Pal, F. Nagy (Pecs, Hungary)
- 955 The differences of characteristics in physiologic tremor between dominant and non-dominant hand in normal population
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- 956 Blood harmane concentration is correlated with cerebellar metabolism in essential tremor E.D. Louis, W. Zheng, X. Mao, D.C. Shungu (New York, New York, USA)
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- 958 Validity of family history in essential tremor P.K. Manharlal, S. Fook-Choong, Y. Yuen, T.E. King (Singapore, Singapore)
- 959 Clinical characteristics and prevalence of essential tremor in orhangazi district of Bursa, Turkey (a population-based door to door study) (Bursa, Turkey)
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- 960 Harmonic frequencies in tremor P.H. Kraus, A. Hoffmann, G. Ellrichmann (Bochum, Germany)
- 961 Essential tremor characteristics during different arm posture positions and mechanical load
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- 962 Unique software algorithms for tremor analysis

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- Reduced purkinje cell number in essential tremor:
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 Ross, R. Pahwa, K.E. Lyons, P.L. Faust, J.P.G.
 Vonsattel (New York, New York, USA)

- Tremor associated to chronic inflammatory demyelinating peripheral neuropathy (CIDP):
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 H. Alonso-Navarro, A. Fernández-Díaz, M. Martín-Prieto, J.J. Ruiz-Ezquerro, T. López-Alburquerque, F.J. Jiménez-Jiménez (Salamanca, Spain)
- 966 Isolated tongue tremor after removal of cerebellar pilocytic astrocytoma: Functional analysis with Subtracted ictal SPECT coregistered to MRI study S.J. Kim, W.Y. Lee, J.Y. Kim, B.J. Kim, D.W. Seo (Seoul, Republic of Korea)
- 967 Provoking Parkinsonian tremor
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- 969 Thalamic stimulation induced gustatory dysfunction in a patient with essential tremor J. Roggendorf, J. Vent, M. Maarouf, C. Haense, A. Thiel, G.R. Fink, R. Hilker (Koeln, Germany)
- 970 Reconstruction of the petrosal bone for treatment of kinetic tremor due to cerebellar herniation and torsion of cerebellar outflow pathways
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- 971 Long duration accelometry to assess efficacy of oral 1-octanol in patients with essential tremor F.B. Nahab, S. Baines, D. Ippolito, M. Hallett (Bethesda, Maryland, USA)
- 972 Palatal tremor and ataxia associated with sporadic adult-onset Alexander's disease
 N. Jodoin, C. Vandendries, D. Grabli, G. Bruneteau, D. Rodriguez (Paris, France)
- 973 Experience in therapy of essential tremor (ET) combined with arterial hypertension (AH) by prolonged beta-adrenoblockators (Dilatrend, Carvedilol): The pilot study

 D.V. Pokhabov, V.G. Abramov (Krasnoyarsk, Russian Federation)

Dstanbul, Curkey

Membership Information

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- A reduction in fees charged for participation in the Society's educational programs. Among these are the annual International Congress of Parkinson's Disease and Movement Disorders, as well as regional programs, courses and workshops held each year.
- A print directory listing mailing addresses, telephone and fax numbers, and e-mail addresses for all members.
- A Members Only Section of the MDS Web site at www.movementdisorders.org, including a searchable Membership Directory.
- A quarterly newsletter entitled Moving Along, highlighting current news and views in the field of Movement Disorders.
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Non-Members may apply for MDS membership as part of their International Congress registration. The registration fee includes MDS membership at a reduced rate (\$50 savings) with limited benefits through 2007, and full membership status, including the print journal, in 2008. New MDS member applicants will be contacted by the MDS International Secretariat to provide additional information.

2007-2008 will be another exciting year for MDS and we look forward to bringing you news of these and other new initiatives through the *Movement* Disorders journal, the *Moving Along* newsletter and the MDS Web site.





REQUIP (ropinirole) Prescribing Information

Presentation 'ReQuip' Tablets, Pt. 10592/00850089, each containing rapinirole hydrochloride equivalent to either 0.25, 0.5, 1, 2 or 5 mg rapinirole. Starter Fack (105 tablets), £40, 10. Follow On Pack (147 tablets), £74,40; 1 mg tablets - 84 tablets, £47.26; 2 mg tablets - 84 tablets, £94.53; 5 mg tablets B4 tablets, £163.27. Indications Treatment of idiopathic Parkinson's disease. May be used alone (without L-dopa) or in addition to L-dopa to control "anoff" ctuations and permit a reduction in the L-dopa dose. Dosage Adults: Three times a day, with meals. Titrate dose against efficacy and tolerability. Initial dose for 1st week should be 0.25 mg t.i.d., 2nd week 0.5 mg t.i.d., 3rd week 0.75 mg t.i.d., 4th week 1 mg t.i.d. After Initial fitration, dose may be increased in weekly increments of up to 3mg/day until acceptable therapeutic response established. If using Follow On Pack, the dose for 5th week is 1,5mg t.i.d., 6th week 2.0mg t.i.d., 7th week 2.5mg t.i.d., 8th week 3.0mg t.i.d. Do not exceed 24 mg/day. Concurrent Edopa dose may be reduced gradually by around 20%. When switching from another dopamine agonist follow manufacturer's guidance on discontinuation. Discontinue rapinirale by reducing doses over one week. Renal or hepatic impairment. No change needed in mild to moderate renal impairment, Not studied in severe renal or hepatic impairment - administration not recommended. Elderly: Titrate dose in normal manner. Children: Parkinson's disease does not occur in children - do not give to children. Contra-indications Hypersensitivity to ropinitale, pregnancy, lactation and women of child-bearing potential unless using adequate contraception. Precautions Caution advised in patients with severe cardiovoscular disease and when co-administering with antihypertensive and anti-arrhythmic agents. Patients with major psychotic disorders should be treated with dopamine agonists only if potential benefits outweigh the risks. Rapinirole has been associated with samnolence and episodes of sudden sleep onset. Patients must be informed of this and advised to exercise coution while driving or operating machines during treatment with ropinirale. Patients who

refrain from driving or operating machines. Caution advised when taking other sedating medication or alcohol in combination with repinirale. If sudden anset of sleep occurs in patients, consider dose reduction or drug withdrawal. Drug interactions Neuroleptics and other centrally active dopamine antagonists may diminish effectiveness of ropinirole - avoid concomitant use. No dosage adjustment needed when co-administering with Edopa or domperidone. No Interaction seen with other Parkinson's disease drugs but take care when adding ropinitale to treatment regimen. Other dopamine aganists may be used with caution. In a study with concurrent digavin, no interaction seen which would require dosage adjustment. Metabolised by cytochrome P450 enzyme CYP1A2 therefore potential for interaction with substrates or inhibitors of this enzyme ropinirole dose may need adjustment when these drugs are introduced or withdrawn, Increased plasma levels of ropinitale have been observed with high oestragen dases. In patients on harmone replacement therapy (HRT) rapinirale treatment may be initiated in normal manner, however, if HRT is stopped or introduced during repinirole treatment, dosage adjustment may be required. No information on interaction with alcohol - as with other centrally active medications, caution patients against taking rapinitole with alcohol. Pregnancy and lactation Do not use during pregnancy - based on results of animal studies. There have been no studies of rapinirale in human pregnancy. Do not use in nursing mathers as lactorion may be inhibited. Adverse reactions in early therapy: nausea, somnolence, leg pedema, abdominal pain, vomiting and syncope. In adjunct therapy: dyskinesia, nausea, hallucinations and confusion. Postural hypotension, which is commonly associated with dopamine agonists, and decreases in systolic blood pressure have been noted; symptomatic hypotension and bradycardia, occasionally severe, may occur. As with another dopamine agonist, extreme somnolence and/or sudden onset of sleep have been reported rarely, occasionally when driving [see 'Precautions' and 'Effects on ability to drive and

have experienced somnolence and/or an episode of sudden sleep onset must

use machines"). Effects on ability to drive and use machines Patients being treated with rapinitale and presenting with samnalence and/or sudden sleep episodes must be informed to refrain from driving or engaging in activities where impaired alertness may put themselves or others at risk of serious injury or death [e.g. operating machines] until such recurrent episodes and samnalence have resolved. Overdosage No incidences reported. Symptoms of overdose likely to be related to dopaminergic activity.

POM

Marketing Authorisation Holder SmithKline Beecham pic t/a GlaxaSmithKline, Stockley Park West, Uxbridge, Middlesex UB11 18T.

Further information is available from: Customer Contact Centre, GlaxoSmithKline, Stockley Park West, Usbridge, Middlesex UB11 18T; customercontactuk@gsk.com; Freephone 0800 221 441.

Prescribing information last revised: November 2005.

In order to continually monitor and evaluate the safety of ReQuip, we encourage healthcare professionals to report adverse events, pregnancy, overdose and unexpected benefits to GlaxoSmithKline on 0800 221 441. Please consult the Summary of Product Characteristics for full details on the safety profile of ReQuip. Information about adverse event reporting can also be found at www.yellowcard.gov.uk.

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