



MOVEMENT DISORDER SOCIETY OF BANGLADESH

Society for parkinson's disease and other movement disorders







Managing Parkinson's Disease



Restores Balance



Brings Rhythm in Movement



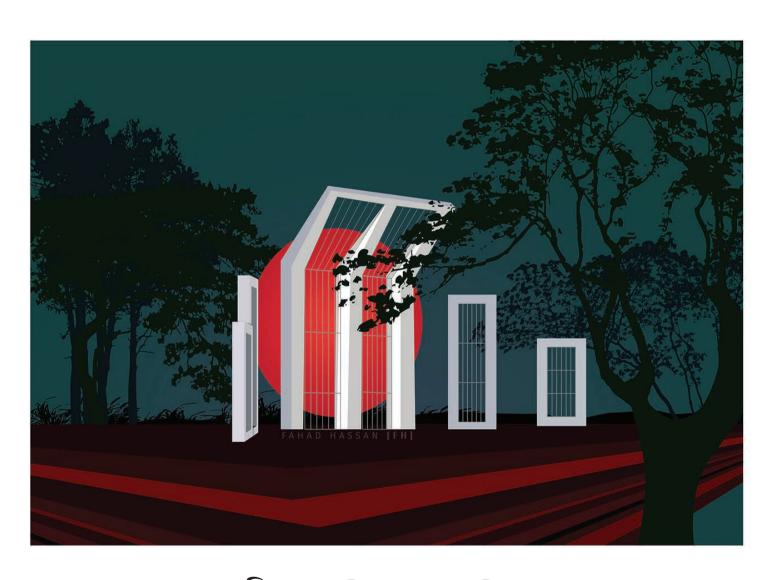
1 mg Oral tab 2 mg Oral tab 5 mg Oral tab 50 mL Oral solution

Overcoming Tremor



Delays Progression of PD through Neuroprotection





তাষা শহীদ্দের প্রতি আমাদের বিনদ্র শ্রদ্ধা Our humble tribute to the language martyrs





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Message

PresidentSociety of Neurologists of Bangladesh

I am very much excited to know that "2nd National Congress on Parkinson's Disease & Other Movement Disorders" is going to be held on 27th -28th, February, 2023 under the auspices of Movement Disorder Society of Bangladesh. I take the great honor to welcome and congratulate all the participants of this congress.

Movement disorder is one of the emerging branch of neurology and it demands special attention from healers.

Parkinson's disease is one of the most common movement disorders, impacting 15-20 people out of every 100,000. In a country of ours having 169.4 million population, the number is huge, as well as its social and economic burden is massive. It has immense impact on these families including financial burden. Comparing to the need there are only a few specialists and neurologists who are working in this arena.

This conference aims to collaborate and exchange knowledge and experience from national and internationally renowned Movement Disorder specialists. The faculties will share, discuss and debate on new developments. The organizers have been relentless to make this congress a grand success.

It is also a great honor for the Society of Neurologists of Bangladesh to endorse this Congress.

I wish every success of "2nd National Congress on Parkinson's Disease & Other Movement Disorders " 2023.







Message

Secretary GeneralSociety of Neurologists of Bangladesh

I am glad to know that "2nd National Congress on Parkinson's Disease & Other Movement Disorders" is going to be held on 27th-28th, February 2023. Till this day more than 200 neurologists along with neurosurgeons, internists and physiatrist are facing enormous challenges to manage patients suffering from various movement disorders in this country. We have successfully crossed a rugged path in establishing awareness regarding movement disorders in this country but still we have a long way ahead. Hopefully upcoming neurologists in residency or fellowship will steer the future in this arena. I want to take this opportunity to encourage all attendee and participants in this unique conference in order to take advantage of the most recent scientific discoveries and milestones in the field of movement disorders. I believe the more you participate, the more you learn from a conference and I would encourage your active participation by taking advantage to interact with these renowned neurology leaders.

This congress is just a novel addition in this field.









Convenor's Speech

ConvenorMovement Disorder Society of Bangladesh

It is an absolute privilege to extend a warm greetings to all attendees of the "2nd National Congress on Parkinson's Disease & Other Movement Disorders" at Dhaka, Bangladesh, going to be held on 27th-28th, February 2023 under the patronage of movement disorder society of Bangladesh. With a profound sense of gratitude I must take this opportunity to encourage all attendee and participants in this unique conference to take advantage of the most recent scientific discoveries and milestones in the field of movement disorders

Since its inception, Movement Disorder Society of Bangladesh (MDSOB) has been contributing remarkably in popularizing the subspecialty of Movement Disorders in the country. The credit of the success story goes to the unique vision of the founding members, unrelenting efforts of office bearers and active participation of all members.

Movement disorders formed 20% of neurological patients. Movement disorders are a rapidly progressing area of interest for the upcoming neurology research in Bangladesh. With development of modern technologies complicated surgeries like DBS should reach a level of expertise in the upcoming years to provide the patients a better life.

Inj Botulinum Toxin is available in Bangladesh for last two decades which is mainly given in Dhaka. If it can be given in other divisional / district level hospital, the patients will be hugely benefited.

I encourage young neurologists to avail training on movement disorders. If advanced treatment option





of Parkinson diseases become available in Bangladesh, patients will be benefited. On behalf of society, my heartiest thanks to my senior teachers, colleague and junior neurologists for their inspiration and encouragement.

I am delighted to declare that we are starting robust fellowship programs in Bangladesh so that the aspirants don't have to look for overseas training all the time. We have the potential to become hub of Movement Disorders in South Asia or even Asia -Oceanian region.

I am expressing my heartfelt gratitude to International Parkinson and movement disorder society (Asian-Oceanian Region) for extremely useful favor for this congress. I am thankful for the moral and capital support from local pharmaceutical companies. I cannot finish without thanking our wonderful tender participant for their tremendous effort to make the congress successful.

I would encourage your active participation by taking advantage to interact with these renowned neurology leaders.

Your humble Convenor

Prof. Dr. Hasan Zahidur Rahman









Member Secretary's Address

Member SecretaryMovement Disorder Society of Bangladesh

Dear participants, honorable guests, national and foreign faculties welcome all.

It is a memorable time for us that after COVID pandemic Movement Disorder Society Bangladesh is going to organize its 2nd National Congress on 27th -28th, February 2023.

In this century non-communicable diseases are the main burden of health issue. Among them neurological disorders are the major part. History of Neurology in Bangladesh is not so long. My honor to Prof. Dr. M A Mannan, founder of Neurology in Bangladesh, who took responsibility to develop Neurology specialty in Bangladesh. I also mention the name of Prof. Dr. Anisul Haque, Prof. Dr. AKM Anwar Ullah, Prof. Dr. Quazi Deen Mohammad for their dedication to flourish the subject.

Movement Disorder Society of Bangladesh organized it's 1st National Congress on 2018. In 2019 we arranged a National Seminar on Dystonia. These are the milestones of Movement Disorder Society of Bangladesh.

Among neurological diseases, movement disorders are critical to diagnose and mainly on clinical basis. To manage movement disorder patients, we have to depend only on pharmacological treatment. We have no specialized physiotherapist for Parkinson's disease patients and other movement disorder patients. For management of advanced Parkinson's disease patients, Levodopa patch and Apomorphine infusion pump is not available in our country due to high cost. Deep Brain Stimulation (DBS) is started in a limited number. It is also highly payable.

Inj Botulinum Toxin is available in Bangladesh for more than last two decades. It is mainly given in





Dhaka. If it can be given in other divisional / district level hospital, where Neurology department is existing, the patients will be benefited. We encourage young Neurologists to avail training on movement disorders. If advanced treatment option of Parkinson diseases become available in Bangladesh, patients will be benefited.

On behalf of society, my heartiest thanks to my senior teachers, colleague and junior neurologists for their inspiration and encouragement. We are in debt to International Parkinson and Movement Disorder Society (Asian- Oceanian Region) for financial support of this congress under Developing World Education Program (DWEP). I also acknowledge pharmaceutical companies for their support. In this conference national and internationally renowned speakers will share and discuss new developments and scientific advancements in this field that will enrich our knowledge.

I wish every success of "2nd National Congress of Movement Disorder Society of Bangladesh 2023.

Prof. Dr. Md. Ahsan Habib



Executive Committee



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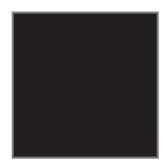
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Dhaka, Bangladesh

Meeting Atgenda

Endorsed by







8:00AM - 8:30AM Kit collection

SESSION-1

Panel of Experts:

Prof. Dr. A K M Anwar Ullah Prof. Dr. Md. Azharul Haque

8:30AM - 9:10AM

TOPIC 1

Functional neuroanatomy of basal ganglia Speaker: Prof Dr. Hrishikesh Kumar, India

9:10AM - 9:50AM

TOPIC 2

Current concept on the etiology and pathogenesis of Parkinson's Disease

Speaker: Prof. Dr. Pramod Kumar Pal, India

9:50AM - 10: 30AM **TOPIC3**

Tremor

Speaker: Prof. Dr. Sanjay Pandey, India



February

INAUGURAL SESSION

10:30 AM - 11:10 AM

Chief Guest:

Prof. Dr. Firoz Ahmed Quraishi

President, Society of Neurologists of Bangladesh

Special Guests:

Prof. Dr. Anisul Haque

Ex-Chairman, Dept. of Neurology, BSMMU Ex-President, Society of Neurologists of Bangladesh Ex Pro-VC (Education), BSMMU

Prof. Dr. Quazi Deen Mohammad

Director, National Institute of Neuroscience and Hospital President, Bangladesh College of Physician and Surgeon Ex-President, Society of Neurologists of Bangladesh

Prof. Dr. A K M Anwarullah

Ex-Chairman, Dept. of Neurology, BSMMU Ex-President, Society of Neurologists of Bangladesh

Prof. Dr. Abu Nasir Rizvi

Chairman, Dept. of Neurology, BSMMU General Secretary, Society of Neurologists of Bangladesh

TEA BREAK

11:10AM - 11: 40AM

SESSION-2

Panel of Experts:

Prof. Dr. Rafigul Islam Prof. Dr. Md. Moniruzzaman Bhuiyan

11:40AM - 12:40PM **TOPIC 4**

Botulinum Toxin

Speaker: Prof Dr Abu Nasir Rizvi, Bangladesh

12:20PM - 1:00PM

TOPIC 5

Chorea

Speaker: Prof. Dr. Sanjay Pandey, India



Day 1 (27th February

LUNCH

1:00PM - 2:00PM

SESSION - 3 (LIVE SESSION)

2:00PM - 2:40PM **TOPIC 6**

Live Demonstration of Inj Botulinum Toxin

Prof Dr. Hrishikesh Kumar Prof. Dr Abu Nasir Rizvi

SESSION-4

Panel of Experts:

Prof. Dr. MS Jahirul Hoque Chowdhury Dr. Mohammad Selim Shahi

2:40PM - 3:20PM

TOPIC 7

Wilson's Disease

Speaker: Dr. Annu Aggarwal, India

TEA BREAK

3:20PM - 4:00PM

4:00PM - 4:40PM

TOPIC 8

Atypical Parkinsonism

Speaker: Prof. Dr. Pramod Kumar Pal, India

4:40PM - 5:20PM

TOPIC 9

Movement Disorder emergency

Speaker: Dr. Annu Aggarwal, India

CLOSING REMARKS

5:20PM - 5:40PM

GRAND DINNER

(PAN PACIFIC SONARGAON) 7:30PM - 9:00PM



Dhaka, Bangladesh

Day 2 (28th February 2023

8:30AM -9:00AM Kit collection

SESSION-5

Panel of Experts:

Prof. Dr. M A Hannan Prof. Dr. SK Sader Hossain Prof. Dr. Maliha hakim

9:00AM - 9: 40AM **TOPIC 10**

Multiple System Atrophy

Speaker: Prof. Dr. Anthony E Lang, Canada (Virtual)

9:40AM - 10:10AM

TOPIC 11

Psychogenic Movement Disorder

Speaker: Prof. Dr. Hrishikesh Kumar, India

10:-10AM - 10: 50AM

TOPIC 12

Role of DBS in Movement Disorder

Speaker: Prof. Dr. Paresh Doshi, India

10:-20AM - 11:00AM

TOPIC 13

Genetic aspects of Parkinson's disease

Speaker: Prof. Dr. Alastair Noyce, UK

TEA BREAK

10:50AM - 11: 20AM



Day 2 (28th February 2023

SESSION-6

Panel of Experts:

Prof. Dr. Mansur Habib Prof. Dr. Shaheen Akhter Prof. Dr. Badrul Alam

11:-20AM - 12:00PM

TOPIC 14

Pathophysiology and Classification of Dystonia in Paediatric Population

Speaker: Dr. Biju Hameed, UK

12:00PM - 12:40PM

TOPIC 15

Using genetics to understand Parkinson's disease association and causation

Speaker: Prof. Dr. Alastair Noyce, UK

12:40PM - 01:20PM

TOPIC 16

Long term surgical and hardware related complications of Deep Brain Stimulation

Speaker: Prof. Dr. Paresh Doshi, India

SESSION-7

01:20PM - 02:00PM

Case Discussion and expert opinion (Specially on DBS)

Prof. Dr. Paresh Doshi

LUNCH

02:00PM - 02: 50PM

AND CLOSING SESSION

02:50PM - 03:00PM





Session Details





27February 2023
Monday

Topics

- Functional neuroanatomy of basal ganglia
- Current concept on the etiology and pathogenesis of Parkinson's Disease
- Tremor

Speaker:

Prof Dr. Hrishikesh Kumar, India Prof. Dr. Pramod Kumar Pal, India Prof. Dr. Sanjay Pandey, India

Session 01

Time: 8:30am - 10: 30am

Session Description:

In this session, the faculty will discuss the functional neuroanatomy of basal ganglia, their connections, direct & indirect pathways, their functions and effects of neurotransmitters and drugs on them. There will also be discussion on the etiology and pathogenesis of Parkinson's Disease for understanding the mechanisms of various signs and symptoms, various systems affected in this disease and disease progression. Finally, there will be information about various types of tremor, their causes, how to diagnose individual tremor, diseases associated with each types of tremor and their treatments.

After the end of this session participants should be better able to:

- 1. Understand functional neuroanatomy of basal ganglia, their connections, functions and various disorders related to them.
- 2. Recognize causes and pathogenesis of Parkinson's disease.
- 3. Understand mechanisms of signs and symptoms of Parkinson's Disease and how to treat them.
- 4. Identity various disease related to each type of tremor and their treatment.





27February 2023
Monday

Topics

- Botulinum Toxin
- Chorea

Speaker:

Prof Dr Abu Nasir Rizvi, Bangladesh Prof. Dr. Sanjay Pandey, India

Session 02

Time: 11:40am - 1:00pm

Session Description:

During this session, the faculty will discuss about Botulinum Toxin, how it works, applications of botulinum toxin in the medical field, different types of botulinum toxin available, their potency, and their uses, potential risks and side effects and strategies to minimize these risks and ensure safe and effective use of botulinum toxin. There will also be information regarding the causes, symptoms, diagnosis, and treatment options for chorea.

After the end of this session participants should be better able to:

- 1. Know different uses of botulinum toxin in practice of neurology
- 2. Understand mechanisms of action, procedure, safety and efficacy of Botulinum Toxin
- 3. Define chorea and different subtypes of chorea
- 4. Recognize the causes of chorea and their management





N1

27February 2023
Monday

Topic

Live demonstration of Inj. Botulinum Toxin

Demonstrators:

Prof. Dr. Hrishikesh Kumar, India Prof. Dr. Abu Nasir Rizvi, Bangladesh

Session 03

Time: 02:00PM - 02:40PM

Session Description:

In this session the faculties will demonstrate in live how to inject Botulinum toxin to an individual.

At the conclusion of this session, participants should be better able to:

- 1. Know prerequisites (e.g. indication, materials, consent, cost etc) of the procedure of injecting Botulinum toxins
- 2. Recognize the muscle responsible for dystonia where injection will be given
- 3. Calculate and or assume the amounts of toxin needed for individual muscle
- 4. Know how the injection should be given.





27February 2023
Monday

Topics

- · Wilson's Disease
- Atypical Parkinsonism
- Movement Disorder emergency

Speaker:

Dr. Annu Aggarwal, India Prof. Dr. Pramod Kumar Pal, India

Session 04 2:40pm - 5:20pm

Session Description:

In this session the faculty will review epidemiology, the pathogenesis, clinical manifestations, and natural history of Wilson disease as well as diagnosis, treatment, prognosis and recent update. The faculty will also discuss on the latest, state-of-the-art option in the diagnosis and management of atypical parkinsonism at an early stage of the disease. There will also be information about Many acute and potentially lifethreatening medical conditions have hyperkinetic or hypokinetic movement disorders as their hallmark.

After the end of this session participants should be better able to:

- Understand heredity, mechanism and recognize features and complications of Wilson disease and its treatment
- 2. Diagnose the atypical parkinsonism and differentiate from idiopathic PD both clinically and with investigation and curtail the treatment according to type.
- 3. Identify the most relevant Movement Disorder emergencies, their clinical presentation, demographics, diagnosis and management.





28 February 2023 Tuesday

Topics

- Multiple System Atrophy
- Psychogenic Movement Disorder
- Role of DBS in Movement Disorder
- Genetic aspects of Parkinson's disease

Speaker:

Prof. Dr. Anthony E Lang, Canada (Virtual)

Prof. Dr. Hrishikesh Kumar, India

Prof. Dr. Paresh Doshi, India

Prof. Dr. Alastair Noyce, UK

Session 05

9:00am - 1<u>1:00am</u>

Session Description:

In this session faculty will discuss about Atypical Parkinsonism mainly Multiple System Atrophy, different types psychogenic movement disorders and their treatment options. There will also be information regarding roles of DBS in movement disorder. Finally, genetic aspects of Parkinson's Disease will also be discussed.

At the completion of this session participants should be better able to:

- 1. Identity signs and symptoms, pathogenesis, types, progression and complications of multiple system atrophy.
- 2. Identify psychogenic movement disorders and differentiate them from organic movement disorders.
- 3. Treat various psychogenic disorders.
- 4. Know about familial forms of PD, basic genetic principles of inheritance in PD, current methods for the identification of PD genes and risk factors, and implications for genetic testing.





28 February 2023 Tuesday

Topics

- Pathophysiology and Classification of Dystonia in Paediatric Population
- Using genetics to understand Parkinson's disease association and causation
- Long term surgical and hardware related complications of Deep Brain Stimulation

Speaker:

Dr. Biju Hameed, UK Prof. Dr. Alastair Noyce, UK Prof. Dr. Paresh Doshi, India

Session 06

11:-20am - 01:20pm

Session Description:

In this session, the faculty will discuss about the various dystonia amongst the paediatric group their mechanisms, classifications and managements. There will also be the updates about the groundbreaking research to use genetics to dig out the causes & associations related to Parkinson's disease. Finally, there will be discussion regarding the long-term complications of DBS and ways to overcome the challenge.

After the end of this session participants should be better able to:

- 1. Understand mechanisms and causes of paediatric dystonia along with their classifications
- 2. Role of genetics in finding out causes of Parkinson's disease.
- 3. Use of genetics in understanding mechanisms of Parkinson's Disease.
- 4. Recognise the complications associated with Deep Brain Stimulation.
- 5. Acquire knowledge on surgical and device related complications and efforts to tackle them.





28
February 2023
Tuesday

Topics

 Case Discussion and expert opinion (Specially on DBS)

Speaker:

Prof. Dr. Paresh Doshi

Session Description:

In this session there will be a presentation of four very interesting clinical cases and the speaker will discuss their diagnosis and management options and expert opinion regarding DBS as an option in managing their symptoms.

At the end of this session participants will be able to:

- 1. Identify different types of movement disorder by their clinical presentation.
- 2. Learn about management options for different stages of Parkinson's disease.
- 3. Know about long term outcome after DBS surgery and quality of life of the patient.









Prof. Dr. Hrishikesh Kumar

Head, Department of Neurology In-charge of Parkinson's Disease and Movement Disorders Program Director, RGCM Research Center, India. Vice Chairman, Institute of Neurosciences, Kolkata. India Secretary, Movement Disorders Society of India (2021-2023)

Topic

Topic 1
Functional neuroanatomy of basal ganglia
8:30am - 9:10am
Day 1, Session 1

Topic 11 **Psychogenic Movement Disorder**9:40am – 10:10am

Day 2, Session 5





Prof. Dr. Pramod Kumar Pal

Professor & Head of Neurology, National Institute of Mental Health & Neurosciences (NIMHANS), Bangalore, India

Topic

Topic 2

Current concept on the etiology and pathogenesis of Parkinson's Disease
9:10am - 9:50am
Day 1, Session 1

Topic 8 **Atypical Parkinsonism**4:00pm – 4:40pm
Day 1, Session 4





Prof. Dr. Sanjay Pandey

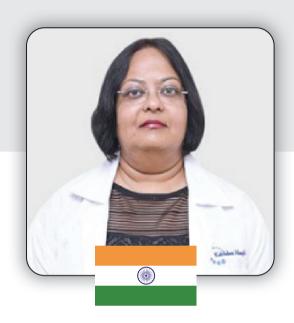
Professor and Head, Department of Neurology and Stroke Medicine Chief, Parkinson's disease and movement disorders, Amrita Hospital, Faridabad, Delhi National Capital Region, India.

Topic

Topic 3
Tremor
9:50am - 10: 30am
Day 1, Session 1

Topic 5 **Chorea**12:20pm - 1:00pm
Day 1, Session 2





Dr. Annu Aggarwal

Consultant, neurology, specialist cognitive and behavioural neurology Kokilaben Dhirubhai Ambani Hospital and Medical Research institute, Mumbai

Topic

Topic 7
Wilson's Disease
2:40pm - 3:20pm
Day 1, Session 4

Topic 9

Movement Disorder
emergency
4:40pm - 5:20pm
Day 1, Session 4





Prof. Dr. Anthony E Lang

Professor at the University of Toronto where he hold Jack Clark Chair for Parkinson's Disease Research.

Director of the Edmond J. Safra Program in Parkinson's Disease and the Morton and Gloria Shulman Movement Disorders Clinic

Topic

Topic 10 (Virtual) **Multiple System Atrophy** 9:00am - 9: 40am Day 2, Session 5





Prof. Dr. Paresh Doshi

Director of Neurosurgery Director stereotactic & Functional Neurosurgical Program at Jaslok Hospital and Research Centre. President of The Neuromodulation Society of India

Director, World Society for Stereotactic and Functional Neurosurgery

Topic

Topic 12

Role of DBS in Movement

Disorder

10:10am - 10: 50am

Day 2, Session 5

Topic 16
Long term surgical
and hardware related
complications of
Deep Brain Stimulation
12:40pm - 01:20pm
Day 2, Session 6

Case Discussion and expert opinion (Specially on DBS) 01:20pm - 02:00pm

01:20pm - 02:00pm Day 2, Session 7





Prof. Dr. Alastair Noyce

Clinical Reader and Lead at the Preventive Neurology Unit at the Wolfson Institute of Preventive Medicine, Queen Mary University of London.

Consultant Neurologist at Barts Health NHS Trust.

Topic

Topic 13 **Genetic aspects of Parkinson's disease**10:-20am - 11:00am

Day 2, Session 5

Topic 15
Using genetics to understand
Parkinson's disease
association and causation

12:00pm - 12:40pm Day 1, Session 6







Dr. Biju Hameed

Consultant in paediatric neurology & neurodisability at Great Ormond Street Hospital for Children, London.

Topic

Topic 14

Pathophysiology and
Classification of Dystonia in
Paediatric Population
11:20am - 12:00pm
Day 2, Session 6





Speaker

Prof. Dr. Abu Nasir Rizvi

Chairman, Dept. of Neurology, BSMMU General Secretary, Society of Neurologists of Bangladesh

Topic

Topic 4 **Botulinum Toxin**11:40am – 12:40pm
Day 1, Session 2

Topic 6
Live Demonstration of Inj
Botulinum Toxin
2:00pm - 2:40pm
Day 1, Session 3 (Live Session)









Title:

An Elderly Man with Unilateral Disabling Tremor

Author:

Dr. Imran SarkerMBBS, MCPS, MD, FCPS
Assistant Professor (Neurology)
National Institute of Neurosciences and Hospital, Dhaka.

A 64-year-old, right-handed hypertensive male presented with tremor. Tremor first started in his right hand about 8 years ago, insidious onset, slowly progressive in nature. Initially the tremor was only occurring upon writing. The tremor would also start by assuming a writing posture of his hand. The tremor disappeared when the patient stopped writing. He gives no history of previous head trauma, CNS infections, any stroke or ICSOL. Tremor did not involve his left hand, head or other body parts. Last two years, tremor also occurring during drinking from glass /cup, during prayers when he holds his one hand over another hand. On examination, He had no rigidity, bradykinesia. All Cranial Nerves, Motor, Sensory, cerebellar functions and gait were normal. His routine investigations were normal. MRI Brain showed no structural or vascular abnormality. He was treated with Propranolol, Trihexyphenidyl but without any significant improvement of his disabling hand tremor. He was finally diagnosed as a case of Primary Writing Tremor (PWT). Pathology of Primary Writing Tremor (PWT) is unknown. It can spread over to/ overlap with Essential Tremor. Drug treatment usually refractory. PWT should be treated with either by Botulinum Neurotoxin (BoNT) or VIM Deep Brain Stimulation (DBS).





Title:

Movement disorder in Pediatric age: A case based approach in a tertiary care center in Bangladesh.

Author:

Dr Kanij Fatema

Associate Professor, Department of Pediatric Neurology, BSMMU Email: mailmonami@gmail.com, cell 01713097751.

Introduction:

Pediatric movement disorders (PMD) are diverse, the importance of recognition and treatment of paediatric movement disorders (PMDs) has increasingly been recognized. PMDs often comprise a mixed clinical picture with neurological and non-neurological features. The possible etiologies comprises genetic, metabolic, structural disorders which are often difficult to diagnose. As there iss variable phenotype-genotype correlation. the diagnostic process for PMDs becomes challenging and time consuming. This case based approach to PMD will highlight the phenotype including the video and the road to diagnose some difficult to diagnose PMD in a tertiary care center in Bangladesh.

Methodology:

In this presentation we will present some case based scenario including the video of some Pediatric cases. The cases include Wilson disease, autoimmune encephalitis, Japanese B encephalitis, Dyskinesia due to CACNA 1 mutation, GNAO1 gene mutation, Biotin thiamine responsive basal ganglia disease, Mitochondrial short-chain enoyl-CoA hydratase 1 deficiency (ECHS1D), benign sleep myoclonus, infantile masturbation, Diencephalic syndrome etc. The diagnosis was done on the basis of phenotype, video, neuroimaging, metabolic test and genetic test.

Conclusion:

PMDs concern a large group of disorders with heterogeneous phenotypes and genotypes. In this paper, we have presented case based discussion of PMDs.



Title:

Atypical Neuropsychiatric Manifestation in Wilson's disease: A Case series and Literature Review

Author:

Md. Raknuzzaman¹

1. Jr Consultant (Neurology), National Institute of Neurosciences & Hospital, Dhaka

Wilson's disease (WD) is a rare autosomal recessive inherited disorder of a hepatolenticular degeneration of copper metabolism that often manifests several clinical signs at the time of diagnosis. In most of cases it affects the liver in the early stages and tends to show neuropsychiatric involvement in the later stages of disease. Early prompt diagnosis of WD carries a prognostic value, and an atypical presentation of the disease adds complexities in diagnosis. Even though we need to consolidate further the treatment guidelines for managing psychiatric and neurological symptoms optimally in the patients of WD, identifying signs at the early stages of the disease is crucial to avoid its detrimental effects on the human body. In this case series presentation, all patients showed an early onset of different neuropsychiatric symptoms without any other clinical signs of WD. It is eminent to exclude WD in a patient presenting with neuropsychiatric symptoms. We aim to emphasize the critical aspect of diagnosing, as neuropsychiatric symptoms without typical clinical liver abnormality involvement can be fatal if not treated appropriately. Therefore, timely diagnosis and management of WD hold prognostic value to reduce disease impact, and clinicians should be vigilant to identify similar atypical scenarios.

Keywords: neuropsychiatry, psychosis, kayser fleischer ring, hepatomegaly, ceruloplasmin, wilson's disease





Title:

"Advance Parkinsons disease and Deep brain stimulation surgery: A case with significant improvement in quality of life and early stimulation induced side effects"

Author:

Dr. Sahriar Hossain Siddik MD- Resident (Phase B) Dept. of Neurology, BSMMU

Abstract:

Parkinson's disease chronic is а neurodegenerative disease. Advanced Parkinson's disease is the late stage of disease marked by very limited mobility without assistance, significant motor deficit, risk of fall, and cognitive and psychotic problems. In the advanced stage, almost all the possible medical treatments have been exhausted and reduced in efficacy and lead to significant motor fluctuations and disabling dyskinesia. Surgical treatment is highly recommended in this stage via Deep Brain Stimulation (DBS) where GPi and Subthalamic Nuclei (SN) are the two main targets. We report a case of advanced Parkinson's disease whose neuromodulation has been done via deep brain stimulation on both SN and GPi with significant outcomes in improvements of levodopa induced dyskinesia which resultedin improvement of quality of life (QoL), and independent mobility.





ISOMETRIC MUSCLE STRENGTH OF KNEE EXTENSORS IN PARKINSON'S DISEASE

Mohammad Kamrujjaman

MRMS (Department of Neurosciences, University of Verona, Italy)
Assistant Professor & Head, Department of Physiotherapy
State College of Health Sciences (SCHS), Dhaka, Bangladesh









Background: Muscle weakness has been identified as a significant motor symptom in Parkinson's disease. It's measured as torque (Nm) by a laboratory method during maximum voluntary contraction. Limb muscle strength is measured using isometric & isokinetic methods, & both have limitations in PD. **Purpose:** The purpose of the study was to evaluate the isometric muscle strength of knee extensors between Parkinson's (PD) and the Control group (CR) by (i) investigating the effect of factor groups (CR, PDA, PDNA) and load (15°, 30°, 45°, 60°, 75°, 90°) for the torque load curve, (ii) investigating the effect of factor groups (CR, PDA, PDNA) for the parameters of TORQUEmax & ANGLEopt. Methods: Two-Way ANOVA was conducted to investigate the effects of the factor groups (CR, PDA, PDNA) and load (15°, 30°, 45°, 60°, 75°, and 90°) for the torque load curve. Oneway ANOVA was carried out to investigate the effect of factor groups (CR, PDA, PDNA) for the parameters of TOROUEmax and ANGLEopt. The significance level was at p < 0.05. **Results:** No statistical differences were indicated between PD & CR in the variables of age, body mass, height, BMI, and motor activity except for IPAQ (Met) (p<0.05). CR reaches a higher torque expression as compared to PDA & PDNA. A significant difference was exhibited between the three-factor groups (p=0.008). However, there was no significant difference in scores between PDA and PDNA (p=0.739). CR reaches higher TORQUEmax (168.4 \pm 38.6 N.m) with lower ANGLEopt (77.4 \pm 20.5°) to PDA (144.2 \pm 48.70 N.m; 86.7 \pm 16.1°) & PDNA (145.2 \pm 44.7 N.m; 78.3° \pm 11.4). Furthermore, no significant differences were found between the factor groups in TORQUEmax (p=0.496) & ANGLEopt (p=0.439). Conclusion: According to our expectations through the measures, we concluded, the torque generated by isometric contraction of the knee extensors was relatively lower in PD compared to CR, indicating lower strength of the knee extensors in PD.





Activities done by Movement Disorder Society of Bangladesh

- 1. Movement Disorder Society of Bangladesh started its activities by organizing a one day workshop at Milon Hall, BSMMU, Dhaka, Bangladesh in 2014.
- 2. World Parkinson Day is observed every year on 11th April by the Society with Rally.
- 3. Bangla leaflet about Parkinson's disease is developed to aware Parkinson patients and their care givers.
- 4. 22 leaflet on different movement disorders of International Parkinson and Movement Society are translated in Bangla.
- 5. A website of the society (www.mdsbangladesh.org) is developed. All the leaflets are available in this website.
- 6. Society is encouraging young neurologists to avail training on movement disorders from abroad. As a part of this one young neurologist has already trained up on movement disorders from abroad. Two young are now in Indiawho are doing fellowship training on movement disorder.
- 7. To aware physicians, patients and caregivers about latest treatment option of Parkinson disease and other movement disorders.
- 8. A liaison has been developed with International Parkinson and Movement Disorder Society and International Society has given financial support from time to time to organize "congress of Movement Disorder Society of Bangladesh" under Developing World Education Program (DWEP).
- 9. In 2018 Movement Disorder Society of Bangladesh organized "National seminar on dystonia" on hotel intercontinental, Dhaka.
- 10. To aware general people about Parkinson's disease (পারকিন্সন'স রোগ) MDSB developed a documentary video. This video is available in you tube.
- 11. A book has been published by the MDSB to aware the mass people about the Parkinson's disease.('পারকিন্সন'স রোগ' রোগীদের জন্য প্রয়োজনীয় তথ্যাবলী) Parkinson's disease important information for patient unveiling ceremony was arranged in BSMMU on 11th April ,2021.
- 12. MDSB working with other underserved countries of Asian and oceanian regions to develop movement disorder specialist and latest available treatment for movement disorder patients.



Photo Album



27 & 28 February 2023 Dhaka, Bangladesh

মুভমেন্ট ডিজঅর্ডার সোসাইটি অব বাংলাদেশ সায়েশ্টিফিক পার্টনার :

বিশ্ব পারকিনসন্স দিবস । ৭

সোমবার, ১১ এপ্রিল ২০২২, ২৮ টেত ১৪২৮ • প্রথম আলো



ভা. যে, মহানে রাজী বাব

ক্ষম নামন পরিস্থিত হারিছেন হারিছে, স্বাহার নামনা নাম

পারকিনসন্স রোগের পর্যায়সমূহ

স্নায়ুরোগ বিশেষজ্ঞরা পারকিনসন্স রোগটির গতিধারাকে পাঁচটি পর্যায়ে ভাগ করেছেন। সেগুলো অনুযায়ী রোগটির পর্যায় নির্ণয় করা হয়।

পূর্যায় ১ এটি গুরুই মূর পর্যায়। এখানে সামান্য পরিবর্তন ছাড়া ছুব কমই লক্ষণ প্রকাশ পায়। সাধারণত, এফর পরিবর্তন শরীরের একটি গাশে পরিকাহ্মিত হয়।

পূর্যায় ২ এই পর্যায়ে যুবে অভিনাক্তি পরিবর্তন, জ্বাদা এবং পেশিবলো শক্ত হয়ে যাবল্লা ও কম্পদেন মতো বিজ্ঞা উপদর্গ প্রকাপ পায়। উপদর্শগুরো শরীরের উত্তয় পাশে পরিলক্ষিত হলেও পরীরের ভারসামা নট হয় না।



পর্যায় ৩ এই পর্যায়ে উপসর্গগুলো একটা লাফ দেয়, ফলে শরীর ভারসামারীন হয়ে পড়ে এবং পতনের সংখ্যা বৃদ্ধি পায়। তবে রোগী কোনো সাহাব্য ছাড়া ভার নৈনন্দিন কার্যক্রম চালাতে পারেন।

পৰ্যীয় ৪ বোগটিৰ এ পৰ্যায়ে রোগীৰ উল্লেখযোগ্য পরিবর্তন ঘটে। কোনো সাহদয় স্বাস্থ্য নীড়াতে অনুষ্ঠিৰা হয়। অন্যান্য পেদির নাড়াতভ্য এবং প্রতিক্রিয়াও বীর হয়ে যায়। রোগীকে একা রাখা কঠিন হয়ে পড়ে।

পর্যায় ৫ এই পর্যায়ে রোগীর ২৪ খন্টা সাহাত্য প্রয়োজন। কারণ, রোগী নিজে কিছুই করতে পারেন না। হয় তিনি কইলচেয়ারে থাকেন, নয়তো শয়্যাশায়ী থাকেন।

হয়। বাব নিৰ্দেশ্য নৰ্বাহা নৰবে।

আগিব সমান্ত নেতৃত্ব ক্ৰিপাৰ হাতাৰ কৰে।

আগিব সমান্ত নৰবে।

ইতিবাৰ বাব কৰা নামান্ত কৰাৰ সমান্ত কৰাৰ সমান্ত কৰাৰ নামান্ত কৰাৰ ন

মস্তিক্ষের কাজ বাড়াতে হবে

আন্ত ১১ এপ্রিল ২০১২ বিশ্ব পারকিনসক নিবস। এ উপলক্ষে মৃত্যুমন্ট ডিব্রুপ্রভার সোসাইটি অব বাংলালেশ এবং ক্লেপবেজার কার্যানিউটিনালান নির্মিটেড চ্যানেল আইতে আয়োজন বরুর এবটি বিশেষ আলোচনা অনুষ্ঠালে। ক্লমাধানসকে সচেতন করাই ছিল এ আয়োজনের উদ্দেশ্য। নিচে চিকিৎসকদের মতামত তুলে ধরা হলো।





এককভাবে কাজগুলো করতে পারবেন বাল বিশ্বাস করি। সে ক্ষেত্রে আমাদের পারবিদ্যাস রামীরা অবেক উপকৃত প্রবেন। পারবিদ্যাস রামীরা অবেক উপকৃত প্রবেন। পারবিদ্যাস রামার প্রবিহাসে পরিবারে সামার্গার একার পরিবার—এই তিন পক্ষ যদি সচেতন হয়ে একসংক্র সাংগার্ড দিন্ত পারে, তারবার রামীরিদ্যালার পারবিভ্যাব

দ্যা কোন লোক বিব্য হাজাৰ সকলে হো । এটি অহন
আন্ত্ৰভাৱন না আৰু দিক কৰিব আন্তৰ্ভাৱন না আৰু আন্তৰ্ভাৱন না আৰু কৰিব আন্তৰ্ভাৱন না আৰু আন্তৰ্ভাৱন না আৰু







এটি অত্যন্ত সৃষ্ধা একটি সার্জারি। যেটি বা হয়েছে। এখন পর্যন্ত বাংলাদেশে ফলটি স্কেন

















1	Prof. Dr. Ahsan Habib	41	Dr. Md Aynul Haque
2	Dr. Nayema Masrura	42	Dr. Sharmin Chowdhury
3	Dr. Chandra Shekhar Bala	43	Dr. Md Shamsul islam
4	Dr. Rahat Amin Chowdhury	44	Dr. Mehedi Hasan
5	Dr. Sukumar Majumder	45	Dr. MD.MAKSUDUR RAHMAN
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34	Dr. Dr. Md. Abu Hanif	74	Dr. Moushumi Islam Úrmi
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38	Prof. Md Shahidullah	78	Dr. Tarequr Rahman
39	Dr. Humayun Kabir Sarker	79	Dr. Liton Roy
40	Dr. Chowdhury Adnan Sami	80	Dr. MD RAFÍ UL ALAM



81 Dr. FAHMIDA KHANAM 121 82 Dr. Subhashish Dey 122 83 Dr. Md. Zahidul Islam 123 84 Dr. Subir Chandra Das 124 85 Dr. Md. Momenuzzaman khan 125 86 Dr. Md. Abu Hena Mostafa 126 87 Dr. A M M ASHRAFUL ISLAM 127 88 Dr. Monirul Islam 128 89 Dr. Shakir ur Rashid 129 90 Dr. MD. Shamsur Rahman 130 91 Dr. Ariful Huda 131 92 Dr. Md. Mohitul Islam 132 93 Dr. Md. Mohitul Islam 132 93 Dr. MD. SHUKTARUL ISLAM 133 94 Dr. Mohammad Bazlur Rashid 134 95 Dr. Mohammad Masudur Rahman 135 96 Dr. MD SHAZZAD HOSSAIN 136 97 Dr. Md. Khalequzzaman Linckon 137 98 Dr. Md. Mahbub Hasan 138 99 Dr. Md. Mahbub Hasan 138 100 Dr. Farh	Dr. Maftahul Jannat Dr. Ahmed Ashafuddoula Dr. Mohammad Saiful Bashar Dr. Md. Jafrul Kawsar Dr. Md. Ashaduzzaman Dr. Md. Towfiqul Islam Dr. Md. Nazmul Haque Dr. S.M Shiam Hasan Dr. Md. Faruk Hossain Dr. Zarin Tasnim Dr. Rezvey Sultana Dr. Raquib Ahsan Dr. Asaduzzaman Dr. Munadi Al Islam Dr. Khandakar Rashed Ahmed Dr. Roksana Yasmin Dr. Shahed Mahmood Sadi Dr. Sahariar Hossain Siddik Dr. Md. Foysal Dr. M. Golam Sarwar Dr. Md. Sirajul Islam Dr. Md. Anisul Hasan Dr. Md. Mizanur Rahman Dr. Md. Mashed Reza Dr. Md. Mominul Islam Dr. Md. Hasan Mahmud Dalim Prof Dr Firoz Ahmed Quraishi Prof. Dr. Rafiqul Islam Dr. Abul Kalam Azad Dr. Abdullah Al Hasan Dr. Masum Emran Dr. Masum Emran Dr. Md. Nazmul Hassan Chowdhury Dr. Kamal Uddin Dr. Belal Hossain Prof. Dr. Abdul Kader Sheikh Dr. Md. Khairul Kabir Patwary Prof. Dr. Biplob Kumar Roy Dr. Md. Jasim Uddin
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161	Dr. Abul Kalama Mahamana ad Chaab	001	Dr. Kanarul Hagan Cauray
161	Dr. Abul Kalam Mohammed Shoab	201 202	Dr. Kamrul Hasan Sourav
162 163	Dr. Mostafa Hosen Dr. Muhammad Jamil Ahmed	202	Dr. Md. Ashikur Rahman Dr. Md. Jamil Hossain
164	Dr. Atonu Das	203 204	
165		204	Dr. Shyamoli Azad Ema Dr. Antor Chandra Biswas
	Dr. Mizanur Rahman		
166 167	Dr. Bikash Juty Dey Shikder	206	Dr. Md. Ruhul Quddus
167	Dr. A.B.M Khairul Hasan	207	Dr. Md. Mubinul Huq Chowdhury
168	Dr. Md. Saiful Islam Sohel	208	Dr. Md. Shamchul Alam
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176	Dr. A.B.M Hasan Habib	216	Dr. Shiuly Majumdar
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183	Dr. Habibur Rahman	223	Prof. Dr. Md. Kafil Uddin
184	Dr. Uttam Roy	224	Dr. Md. Alomgir Hossain
185	Dr. Abu Shams Md. Hasan Ali Masum	225	Dr. Md. Sofikul Islam
186	Adv: Md. Abdul Majid Khan (MP)	226	Dr. Ashok Kumar Phani
187	Dr. Hafizur Rahman	227	Dr. Md. Shofiqus Saleheen
188	Dr. Md. Imtiaz Alam	228	Dr. Muhammad Tarek Khan
189	Dr. Md. Suman Kabir	229	Dr. Khandakar Ataur Rahman
190	Dr. Ummeh Habiba Islam	230	Md. Ubydullah Pathan
191	Dr. Md. Kamal Uddin	231	Md. Abu Sufian
192	Dr. Mohammad Ilyas	232	Dr. Md. Mijanoor Rahman
193	Dr. Tanvir Ahmed Mahadi	233	Dr. Md. Muniruzzaman
194	Dr. Nahid	234	Dr. Rabindra Nath Sarkar
195	Dr. Rajib Das	235	Dr. Shaikh Ibn Anwar
196	Dr. Rakesh Kumar Mondal	236	Dr Amitabh Sarker
197	Dr. Ashish Chowdhury	237	Dr. Pallab Kanti Saha
198	Dr. Nishat Tasnim	238	Dr. Md. Moshiur Rahman
199	Dr. Zobaida Khanom	239	Dr. Aminur Rahman
200	Dr. Md. Arafat Evan	240	Dr. Ajay Kumar Agarwalla
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241	Dr. Md. Alamgir Hossain	281	Dr MD Mahfuzur Rahman
242	Dr.Biplab Paul	282	Prof Dr. Shahrukh Ahmed
243	Dr. Samia Nazifa	283	Dr Mohammad Wahidur Rahman
244	Prof. Gopen Kumar Kundu	284	Dr. Manabendra Bhattacharjee
245	Dr. Rebecca Sultana	285	Dr. Uttam Kumar Sarker
246	Dr. Munna Sultana Anny	286	Dr. Tarekul Islam
247	Dr. Sanjida Ahmed	287	Dr. Tridib Qumar Das
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249	Dr. Anita Sarker	289	Dr. Mohammad Riaz Mahmud
250	Dr. Masuma Akter	290	Dr. Md. Sohag Hossain
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254	Dr. Abdul Quddus	294	Dr. Meahedi Hasan Jewel
255	Professor Dr. Mizanur Rahman	295	Dr. Ranjit Kumar Ghosh
256	Dr. Md. Omar Faruk	296	Dr. Golam Sarwar Ahmed
257	Mohammad Arbab Sarker	297	Dr. Afroza Begum
258	Dr. Noor-A-Sabah Liza	298	Dr. Md. Arifuzzaman
259	Dr. Umme Habiba	299	Dr. Md. Amir Abbas Abdullah
260	Dr. Konica Das	300	Dr. Md. Rasheduzzaman
261	Dr. Gulshan Ara Zahan	301	Dr. Abhijit Shaha
262	Naheed Nabi	302	Dr. Atanu Dey
263	Dr. Muin Uddin Talukder	303	Dr. Md. Zaker Hossain
264	Dr. Tofajjal Hossain	304	Dr. Ahmed Hossain Chowdhury (Harun)
265	Prof. Kanuj Kumar Barman	305	Dr. Mohammad Shah Jahirul Hoque Chowd-
266	Dr. Paramita Barua	hury	'
267	Dr Zahidul Islam	306	Dr. Afzal Momin
268	Dr. Manik Dey	307	Dr. Md. Ashrafuzzaman Khan
269	Dr Rakibus Salekin	308	Dr. Md. Hasan Ali
270	Dr. Md Zidar Chowdhury	309	Dr. Muhammad Abdul Momen Khan
271	Dr. Kazi Asif	310	Dr. Md. Shamsuzzaman
272	Dr. Rakib Hasan Mahammad	311	Dr. Provat Kumar Sarkar
273	Asso. Prof. Dr. SK Mahbub Alam	312	Dr. Nazmul Haque
274	Prof.Md. Bahadur Ali Miah	313	Dr. Bithi Debnath
275	Badrunnesa Ahmed	314	Dr. Md. Monir Hossain
276	Md. Zikrul Hossain Ullash	315	Dr. Ariful Islam
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278	Dr. Md Abdul Awal	317	Dr. Md. Tauhidul Islam Chowdhury
279	Dr. A. K. M Ibn Sina	318	Dr. Md. Merazul Islam Shaikh
280	Dr. Sanjoy Kumar Ray	319	Dr. Md. Ruhul Quddus
200	Dr. Garijoy Karriar Kay		DI. Ma. Natial Quadas



320	Dr. Md. Enayet-Ul-Islam	334	Dr. Md. Samiul Islam
321	Dr. Issa Muhammad Baker	335	Dr. Uzzwal Kumar Mallick
322	Dr. Rahatun Nayeem Maglin	336	Dr. Sakib Aman
323	Dr. A.F.M. Al Masum Khan	337	Dr. Gurudas Mondal
324	Dr. Chowdhury Neamul Hassan Refayet	338	Dr. Sujan Saha
325	Dr. Md. Soabraj Al Quiraishi	339	Dr. Md. Kobiruzzaman
326	Dr. Junaid Abdullah Jamiul Alam	340	Dr. Md. Atiqur Rahman
327	Dr. Mohammad Abdullah-Al-Mamun	341	Dr. Mohammad Kafil Uddin
328	Dr. Mohammad Aftab Rassel	342	Dr. Mohammad Shamsul Ahsan
329	Dr. Ishrat Alam Zerin	343	Dr. Abdul Halim Sardar
330	Dr. Md. Ahsan Habib	344	Dr. Biplob Kumar Das
331	Dr. Md. Emranul Huda	345	Md. Khairul Islam
332	Dr. Muhammad Abdullah Al Amin	346	Dr. SM Hasan Shahriar
333	Dr. F.M. Monjur Hasan	347	Dr. Abul Bashar Mohammad Nurul Alam



Tender participants

Dr. Rajib Das

Dr. Nahid Akter

Dr. Rakesh Kumar Mondol

Dr. Monsur Ahmed

Dr. Khandakar Rashed Ahmed

Dr. Rezvey Sultana

Dr. Md. Mominul Islam

Dr. Sahariar Hossain Siddik

Dr. Md. Asaduzzaman

Dr. Mahin Monsur

Dr. S. M. Shiah Hasan

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Dr. Roksana Yasmin

Dr. Md. Anisul Hasan

Dr. Md. Foysal

Dr. M. Golam Sarwar

Dr. Md. Sirajul Islam

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makes every move easy





for the management of Hyperkinetic Movement Disorders















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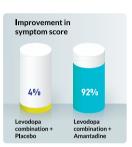
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For the effective management of Parkinson's Disease (PD)

Excellent in reducing Parkinson's symptoms & Levodopa induced dyskinesia (LID)





Mantadin helps to treat Parkinson's symptoms & Levodopa induced dyskinesia effectively



50 mg (Levodopa 50mg+ Benserazide 12.5mg)

100 mg (Levodopa 100mg+ Benserazide 25mg) Dispersible Tablet

200 mg (Levodopa 200mg+ Benserazide 50mg) Tablet



1st time in BANGLADESH as dispersible tablet





Further information is available on request from Renata Limited

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Doparkin

Levodopa & Carbidopa 110 mg & 275 mg Tablet

The gold standard therapy for Parkinson's Disease

- Doparkin is the 1st line treatment option for Parkinson's Disease
- Doparkin effectively controls the symptoms of Parkinson's Disease
- Doparkin shows better tolerability & safety profile



Hexiphen

Trihexyphenidyl Hydrochloride 2 & 5 mg Tablet

Reassures momentum of Life

- Hexiphen helps to overcome drug induced movement disorder in patients on antipsychotic drugs
- Hexiphen helps to improve quality of life of patients suffering from Parkinson's disease
- Quality API (EU origin)

 Hexiphen's

 GENERAL



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Co-dopa ® CR 125 CR 250

Parkinson's Disease

Prolonged action, sustained efficacy

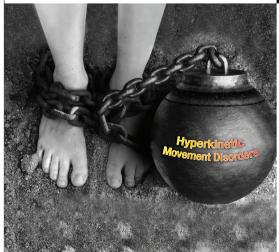


A triple combination to control motor fluctuations with Parkinson's Disease



Managing all forms of Parkinsonism







For wide spectrum hyperkinetic movement disorders



Further information is available from UniMed UniHealth Pharmaceuticals Limited, House No. 46, Sheikh Kamal Saroni, Road No. 16 Rangs Nasim Square (6^{th} & 7^{th} Floor), Dhanmondi, Dhaka 1209, Bangladesh, www.unimedunihealth.com



27 & 28 February 2023 Dhaka, Bangladesh

For Management of Acute Migraine Pain



Anilic Tolfenamic Acid 200mg Tablet

- A non-steroidal anti-inflammatory painkiller
- Helps to ease the pain of a migraine headache
- Effective in pain associated acute attack of migraines in adults
- For the treatment of inflammation and pain
- Reduces pain associated dysmenorrhea, rheumatoid and osteoarthritis

CAMITON

Vinpocetine 5mg Tablet



- A vinca alkaloid used to treat neurological symptoms
- Effective for the treatment of cerebrovascular disorders such as stroke
- Selectively & intensively increases cerebral blood flow

When the weak bone requires essential care

Seacal-D

Calcium Carbonate (From Coral Source) 1250mg eqv. to Elemental Calcium 500mg and Vitamin D₃ (Colecalciferol) 200 IU Tablet



- No chance of constipation, because of naturally containing magnesium
- Least Gl side effects compared to other calcium salts
- Coral calcium has higher bioavailability than other calciums
- Completely ionized within short time of ingestion
- Higher absorption rate

Supra-B

Thiamine Hydrochloride (Vitamin B₁) 100mg, Pyridoxine Hydrochloride (Vitamin B₆) 200mg, Cyanocobalamin (Vitamin B₁₂) 200mcg, Film Coated Tablet

Formation of Red Blood Cells

Increases Energy

Supports the Nervous System

Improves Heart Health

The Neuron Revitalizer

Plasma homocysteine level by 25%

Reduces

Risk of stroke by 19%

Risk of coronary heart disease by 11%

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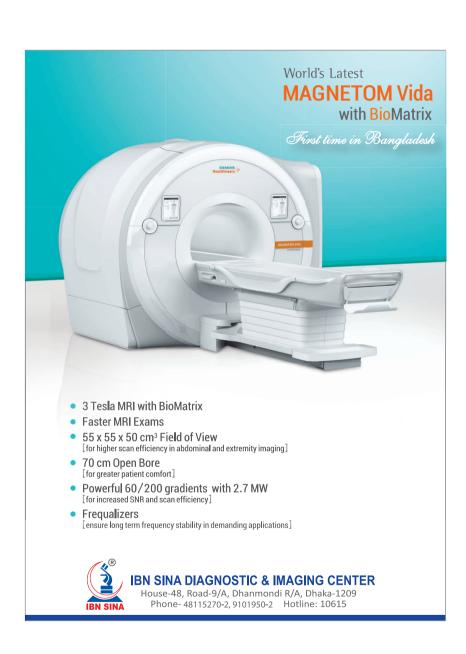


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Innovative concept into practice



Regenerates Nerves

