

## Endorsement of a Post Doctoral Fellowship Program in Movement Disorders by the Movement Disorders Society of India (MDSI).

The Movement Disorders Society of India (MDSI) has taken the initiative to endorse Post doctoral Movement Disorders fellowship programs in India, if they fulfil the criteria laid down by the MDSI. This is to bring in uniformity in the post-doctoral fellowship programs offered across the country and to ensure that a fellowship program adheres to the basic minimum standards for a post-doctoral course

Interested centers can apply for the endorsement of their fellowship programs by the MDSI in the prescribed online form. The application will be reviewed by the committee constituted by the MDSI for this purpose and the decision will be conveyed to the center within 30 days. Selected centers can showcase their program as “MDSI endorsed fellowship program”. The MDSI logo can be used in the fellowship completion certificate provided by the center.

The endorsement by the MDSI will be valid for 5 years provided the standards are maintained. The validity will be reviewed by the MDSI committee every 5 years. The validity of endorsement will be reviewed any time within the 5 years, if there are concerns about the standards followed by the program.

# **Criteria of MDSI endorsement for a Post Doctoral Fellowship Program**

## **1. Faculty requirements for the Institution / Organization:**

The center should have at least one Movement Disorders Specialist Neurologist (Fellowship- trained and with at least 8 years of post-fellowship experience or a Neurologist who has put in focused work and gained sufficient experience in the diagnosis, management, and research in Movement Disorders for more than 10 years)

## **2. Institutional/ Organizational requirements:**

- i) Full-fledged Neurology Department and functional neurosurgery expertise
- ii) Regular Movement Disorders clinic
- iii) Botulinum toxin clinic – administering Botox injection on regular basis for Movement Disorders
- iv) Deep Brain Stimulation (DBS) surgery program: At least 6 DBS surgeries per year being performed for Movement Disorders indication.

## **3. Qualification of candidates for fellowship:** DM /DNB (Neurology) or equivalent degree from recognized institution of India at the time of starting fellowship.

## **4. Duration of the Program:** At least one year

## **5. Brief curriculum:** The goal of the Movement Disorder Fellowship is to train Neurologists to become Movement Disorders Specialists by possessing specialized knowledge in the science, clinical evaluation, and management of patients with common and rare movement disorders.

The fellow should gain knowledge of the pathophysiology, pathology, diagnosis, and treatment of these disorders at a level that is significantly beyond the training and knowledge of a general neurologist.

He/ she should be able to independently undertake research in Movement Disorders.

6. **Academic activities and Research:** During the Fellowship Program, the fellow will actively participate in the following academic programs and research:

- i) Movement Disorder Journal Club (at least once a month)
- ii) Video Sessions (at least once a month)
- iii) Bedside case discussions (at least twice a month)
- iv) Involvement in ongoing research projects in Movement Disorders.
- v) Writing a new research proposal related to Movement Disorders.
- vi) Presenting at least one scientific paper related to Movement Disorders at a National /International Conference.
- vii) Expected to write at least one Original Article/ Systematic Review Article during the fellowship tenure or within 1 year of completion of the fellowship if involved in long- duration projects of the Movement Disorder program.

7. **Involvement and training in stereotactic surgery for Movement**

**Disorders:** The Fellow will actively participate in the Functional Neurosurgery program in treating patients with Parkinson's Disease, Tremor and Dystonia with DBS. He will learn proper selection of patients for surgery and pre- and post-operative assessments of patients with scales and videos. The fellow will attend the Operation Theatre during DBS surgery will learn MER and assessment of effects of macrostimulation and selection of appropriate tract after MER. The fellow should also learn post-operative programming for DBS and medical management of DBS patients

8. **Gaining knowledge related to Infusion therapy:** The fellow should also become well versed on the indications and processes involved in infusion therapies like Apomorphine Pump and Levodopa- Carbidopa intestinal infusion t.

9. **Clinical Training:**

- i) Outpatient training: The fellow will attend outpatient Movement Disorders clinic and do primary work up and follow up of patients with a variety of Movement Disorders. The fellow will learn to evaluate, investigate, and manage both adult and pediatric patients with Movement Disorders and will

be supervised by one of the Movement Disorders Specialist. The fellow will learn the scales used to evaluate a variety of Movement Disorders.

Botulinum toxin therapy. The fellow should train in the selection of patients for therapy, indications, techniques and dosing for Botulinum toxin therapy for movement disorders

- ii) Inpatient training: The fellow will train in the diagnosis and management of in -patients with Movement Disorders under supervision.
- iii) Movement Disorder Emergencies: The fellow will evaluate and manage movement disorder emergencies in the Casualty and Ward, under trained supervision.
- iv) The fellow will learn to do video recording of the patients according to protocols and edit them for therapeutic, academic and research purposes
- v) The fellow will receive appropriate training in Movement Disorders Genetics. He /she should be able to order appropriate genetic tests and interpret the test results.
- vi) Training in Infusion therapy (Apomorphine/ Duodopa) if available.
- vii) Exposure to clinical trial related to Movement Disorders if available.
- viii) Training in Neuroimaging for Movement Disorders.

**10. Fellow assessment:** For award of Certificate of Fellowship in Movement Disorders, the program director is expected to give undertaking that the fellow is trained properly in following areas:

- a. Assessment and treatment of common and rare Movement Disorders
- b. Botulinum Toxin injection for indications in Movement Disorders.
- c. Case selection for DBS and lesional Surgeries.
- d. Target selection of DBS in Movement Disorders.
- e. Intra-operative neurological assessment and electrode location selection in DBS cases
- f. Post -operative care of DBS patients

- g. Post-operative programming and medical management of DBS patients.

The program director should ensure and give the undertaking that the fellow can perform above tasks independently and is capable of running an independent Movement Disorders Clinic and manage IP and OP services through a Movement Disorder program.