



5th Congress of the European Academy of Neurology

Oslo, Norway, June 29 - July 2, 2019

Teaching Course 6

EAN/MDS-ES: Movement disorders for general neurolgists (Level 2)

Diagnosis and therapy of common dystonias

Marie José D. Vidailhet Paris, France

Email: marie.vidailhet@psl.aphp.fr









Définition of dystonia

- · sustained or intermittent muscle contractions
- · causing abnormal movements, abnormal postures, or both.
- · Dystonic movements are typically patterned,
- Twisting movements, may be tremulous (e.g. myoclonic dystonia / dystonic tremor).
- · Dystonia often initiated or worsened by voluntary action
- · associated with overflow muscle activation.

Consensus Update Albanese et al Mov Disord 2013







Epidemiology : frequency of dystonia

Dystonia represents 20% of patients in a movement disorders clinic Prevalence depends on methodology countries, studies :

- 16 /100 000 for adult-onset focal dystonia
- prevalence increase with age

Adult onset focal dystonia is the most frequent form

- cervical dystonia twice most common in women than men (4th decade)
- blepharospasm / facial dystonia) more common in women ((6th decade)
- limb dystonia (4th decade) balanced men/ women ratio

Т







Botulinum toxin injections

BoNT is now considered the initial treatment fo choice for most patients



Beneficial effect in ~ 90% of blepharospasm Maintained throughout the disease course (follow up > 19 yrs













Bilateral pallidal stimulation : 10 years long term follow-up



Pre – operative



10 years follow-up stimulation ON (GPI bilateral)

Courtesy Pr Elena Moro/ Toronto, Grenoble

Writer's cramp



Risk of writer's cramp increases with the time spent writing each day

Associated with an abrupt increase in the writing time during the year before onset

 not significantly associated with peripheral trauma, left-handedness, constrained writing, writing in stressful situations or the choice of writing tool.

•Roze E et al Brain 2009

« Mirror abnormal posture» when writing with the non dominant hand Treatment : retraining / physiotherapy and botulinum toxin injections

Over time, dystonia may evolve to disruption of other tasks / tremor













