# SYLLABUS

Marrakesh, Morocco, November 12-17, 2011

# XX<sup>th</sup> WORLD CONGRESS OF NEUROLOGY







WCN Education Program Sunday, 13 November, 2011 07:00-08:00

## DIAGNOSIS OF PSYCHOGENIC MOVEMENT DISORDER

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DIAGNOSIS OF PSYCHOGENIC MOVEMENT DISORDERS Mark Hallett, USA



### Psychogenic movement disorders

- Movement disorders of presumed psychiatric etiology
- Psychiatric classification
  - Somatoform disorder
  - Conversion disorder
  - Somatization disorder
    Factitious disorder
  - Malingering

#### Conversion disorder

- An unconsciously produced symptom presumably resulting from a psychological disorder.
  - The psychological disorder is <u>converted</u> into the symptom as a way of dealing with the disorder
  - This is the "primary gain" of conversion
  - "Secondary gains" are the benefits of being sick

#### Somatization disorder

- Recurrent and multiple complaints of several years' duration (beginning before 30) which has sought; dynamics similar to conversion
- Must have multiple symptoms

# **Factitious disorder**

- Symptoms are intentionally produced (voluntary) because of a psychological need
- Includes Munchausen's syndrome

# Malingering

- Symptoms that are voluntarily produced for a specified goal such as financial compensation, avoidance of work, evasion of criminal prosecution or acquisition of drugs
- NOT considered a mental disorder

#### **Diagnosis of Factitious or Malingering Disorders**

- How to tell a voluntary movement when the patient claims that it is involuntary tell is How а
- A challenge!
  - Secret surveillance

### **Concurrent Psychiatric** Disorder

- Depression
- Anxiety
- Personality Disorder (histrionic personality?)
- La belle indifference
  - Inappropriate absence of distress despite an unpleasant symptom

# **Biopsychosocial Model**

• Etiology of PMD is really multifactorial and psychiatric diagnoses are currently incomplete and crude

Basic biology stress responsivity

- Psychologic factors-depression, anxiety
- Social factors—physical and emotional trauma; childhood abuse

#### Overlap of Neurologic Disorders and **Psychogenic Movement Disorders**

• 10-15% of patients with psychogenic movement will а neurological disorder also

#### Movement Clues suggesting a **Psychogenic Movement Disorder**

- Abrupt onset, spontaneous remissions
- Inconsistent movements (variable pattern, severity, and body distribution)
  Mixture of types of movements
- Decrease or disappear with distraction
- Paroxysmal
- Response to placebo, suggestion or psychotherapy
- Incongruous movement (e.g., bizarre gait, marked slowness, excessive startle)

#### Other Clues suggesting a **Psychogenic Movement Disorder**

- False weakness or sensory loss
- Multiple MUS
- Self-inflicted injury
- Psychiatric disorder and secondary gain
- Marked fatigue
- Disability out of proportion to signs
- Pending litigation
- Employed in the health profession



# Psychogenic tremor: clinical features

- Complex movements
- Present at rest, posture and action
- Variability of frequency, direction, amplitude
- Absence of finger tremor
- Entrainment or alteration with rhythmic tapping of another body part



# Psychogenic tremor: physiological features

- Entrainment or substantial alteration with rhythmic tapping of another body part
- Exact same frequency in different limbs
- Interruption of tremor with quick movement of another limb





# A case of palatal tremor





When tapping with the right 3<sup>rd</sup> finger, the palatal tremor (as measured with an accelerometer on the neck) was entrained.



Coherence could be demonstrated, here at 3.5 Hz.







#### Psychogenic myoclonus: **Clinical features**

- Clinical features incongruous with "organic myoclonus"
  - Long and/or variable latency for stimulus induced jerks
  - Anticipatory jerks that can be demonstrated by stopping the tendon hammer just short of contact
- Exaggerated startle





# Psychogenic myoclonus: **Physiological features**

- Variable latencies to the onset of stimulus induced jerks
  Greater latencies than that seen in reflex myoclonus of cortical or brainstem origin
  Latencies longer than the fastest voluntary reaction time of normal subjects
  Variable patterns of muscle recruitment within each jerk

  Thompson et al. 1992
  Normal looking BP prior to the jerk
- Normal looking BP prior to the jerk
   Terada et al. 1995





# Psychogenic Parkinsonism: Clinical Features

- Extreme slowness
- Tremor at rest that does not improve with
- Sudden onset, maximum disability early
- Gegenhalten rather than true rigidity



Psychogenic Parkinsonism

Idiopathic Parkinson Disease

[123]-FP-CIT SPECT images

Benaderette et al



# **Gait Disorders**

- Often bizarre patterns
- One clue is that the patient's balance is demonstrated be better claimed

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# How do you make a definitive diagnosis?

• Do you just refer to psychiatry?

Only a neurologist can make the diagnosis of a psychogenic movement disorder.

A psychiatrist cannot do this easily; the role of psychiatry is to identify the underlying psychiatric disorder and help treat it.

# **Treatment Considerations**

- How to tell the patient what's wrong
   Not easy
  - Not one method for all cases
  - We use the term "functional"
- Psychiatry for psychotherapy and pharmacotherapy as appropriate
- Hypnosis, role for placebo?
- Rehabilitation

It is important to recognize that PMD may be only one manifestation of underlying psychosocial problems

Even if the movement disorder is better, there might well be a different conversion or medically unexplained symptom.



