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Parkinson's Disease Education Day 2023



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Tremor in Parkinson's and Its Mimics



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As presented in May 2023 (GB_XAD_694)

Parkinsonian tremor and its mimics

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25th May 2023 RCP



Declarations

• Consultancy work for SAGE, Ipsen and Jazz pharma.

This meeting has been organised and funded by Zambon UK Ltd. This presentation is non-promotional and does not mention Zambon UK products.

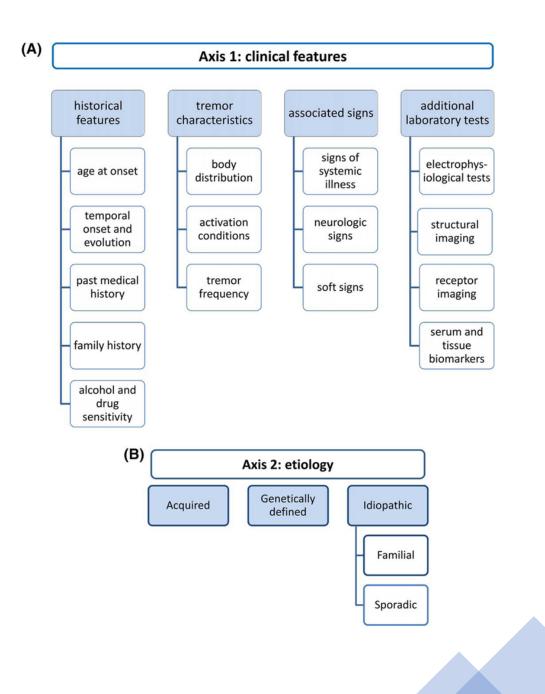
Plan of talk

- What is tremor
- What are the tremor types seen in Parkinson's disease
- What are the mimics
- How to assess tremor in Parkinson's disease
- How to manage tremor in Parkinson's disease

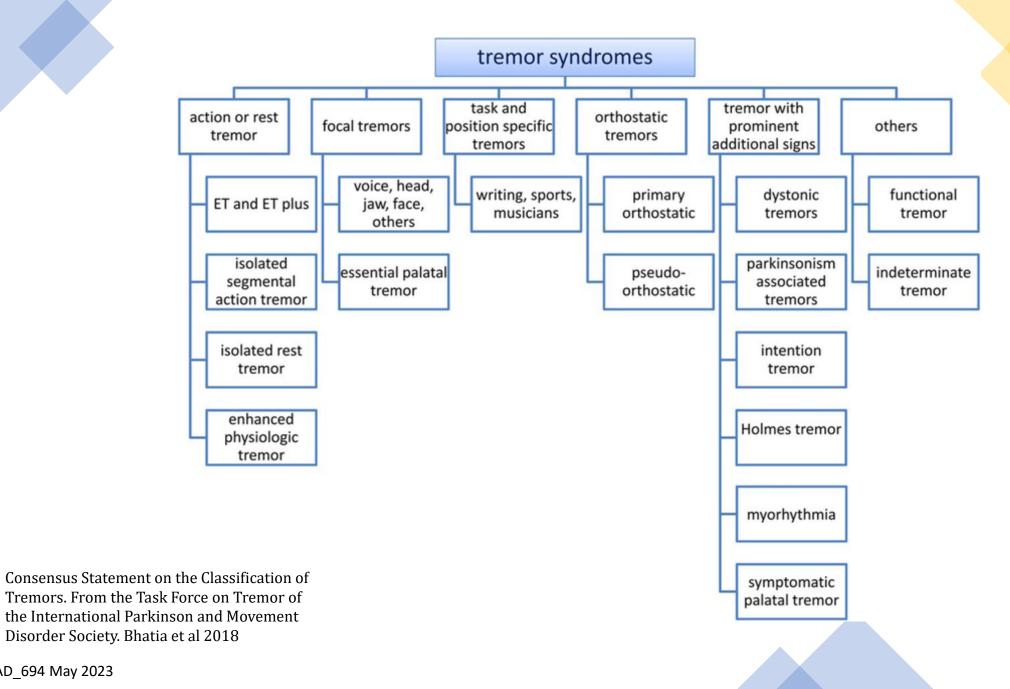
What is tremor?

An involuntary, rhythmic, oscillatory movement of a body part

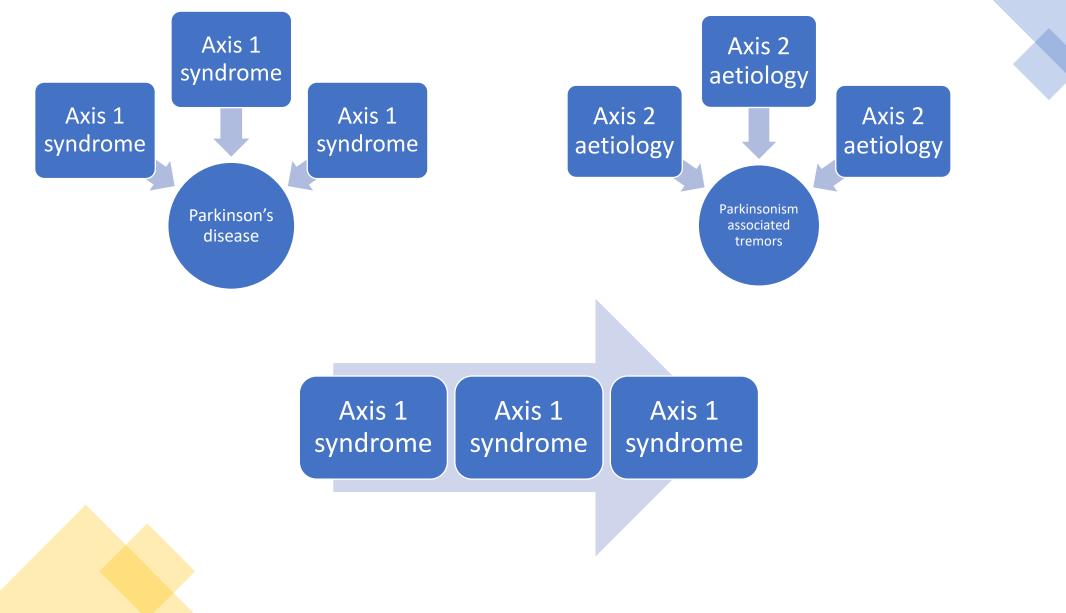
Consensus Statement on the Classification of Tremors. From the Task Force on Tremor of the International Parkinson and Movement Disorder Society. Bhatia et al 2018



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Parkinsonian tremor is a unique motor symptom

- Doesn't increase at same pace as other motor signs
- Doesn't correlate with the severity of bradykinesia and rigidity
- "Wrong-sided tremor"
- Doesn't correlate with the degree of striatal dopamine
- Does not respond as well or as reliably to dopaminergic medication
- Tremor-dominant subtype often follow a more benign disease course

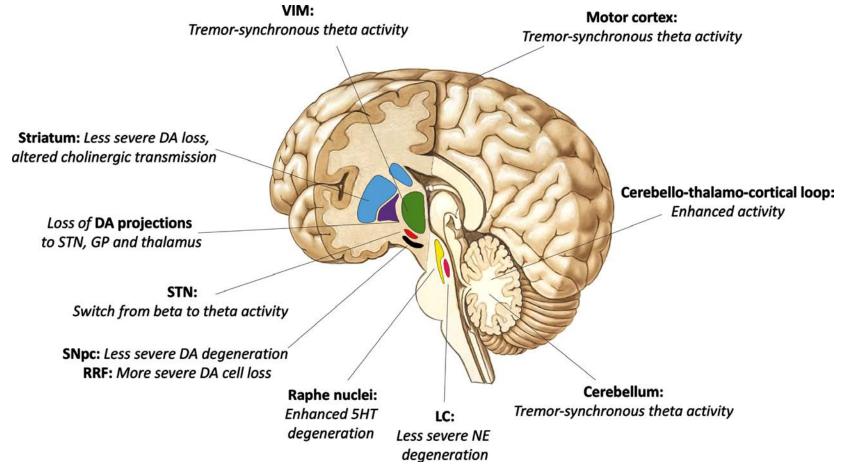
Is tremor important?







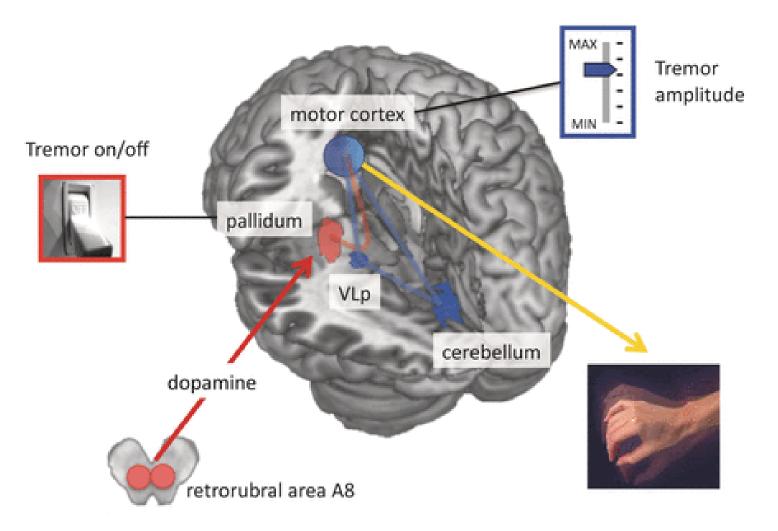
Tremor network in Parkinson's



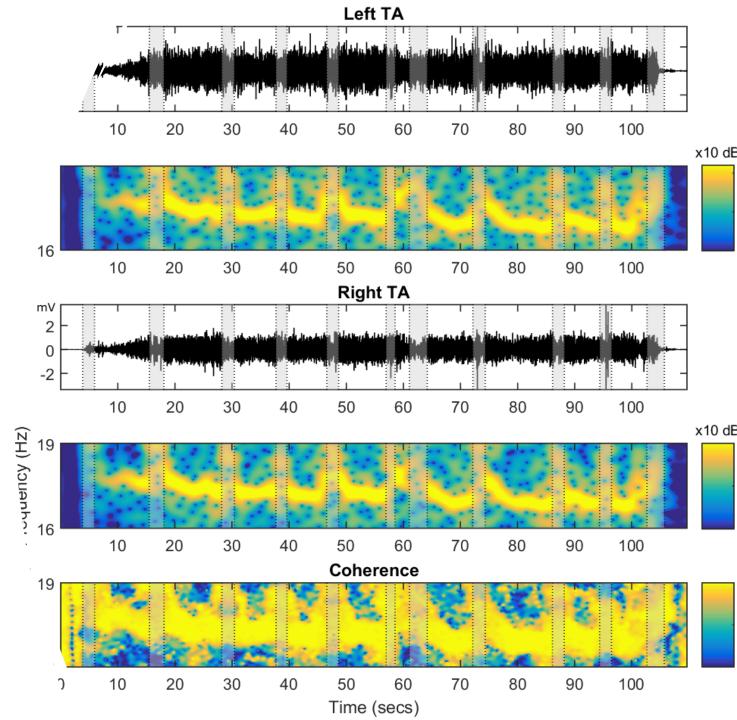
Walter et al. 2023

The 'dimmerswitch' model

• Helmich et al. 2012



EMG and coherence analysis



Orthostatic tremor



What is *not* tremor?

Polyminimyoclonus

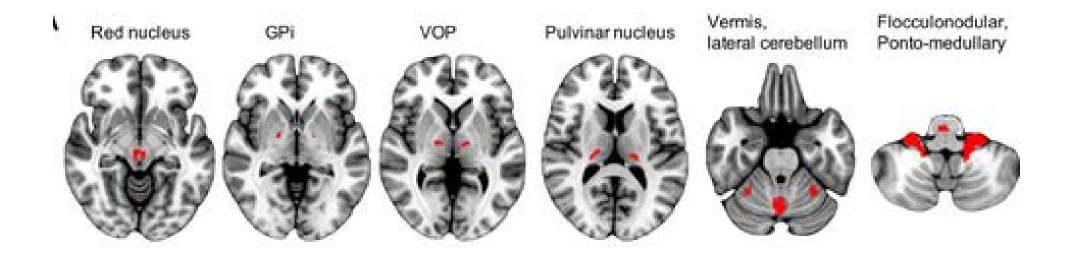
Clonus

EPC

Asterixis

Myorhythmia

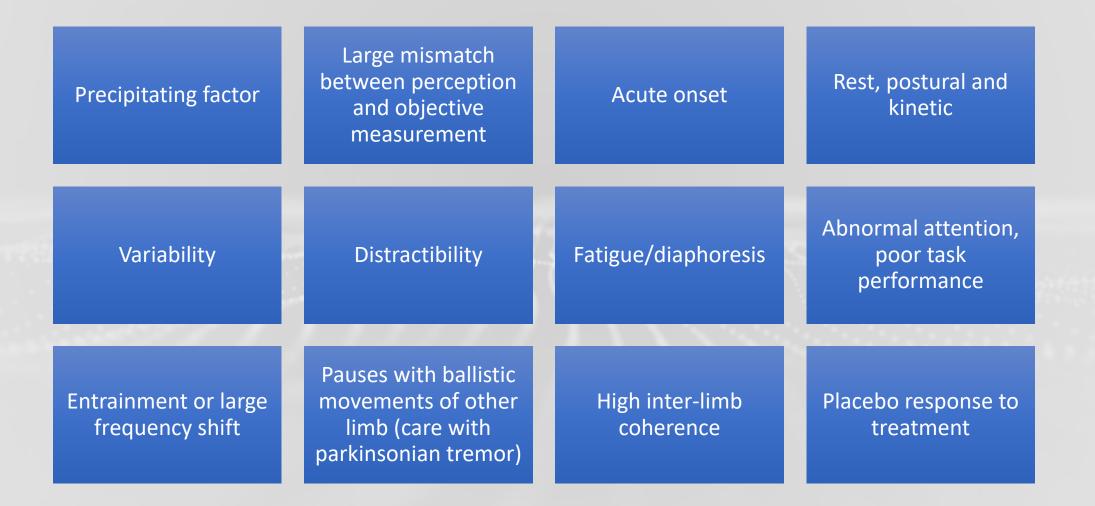


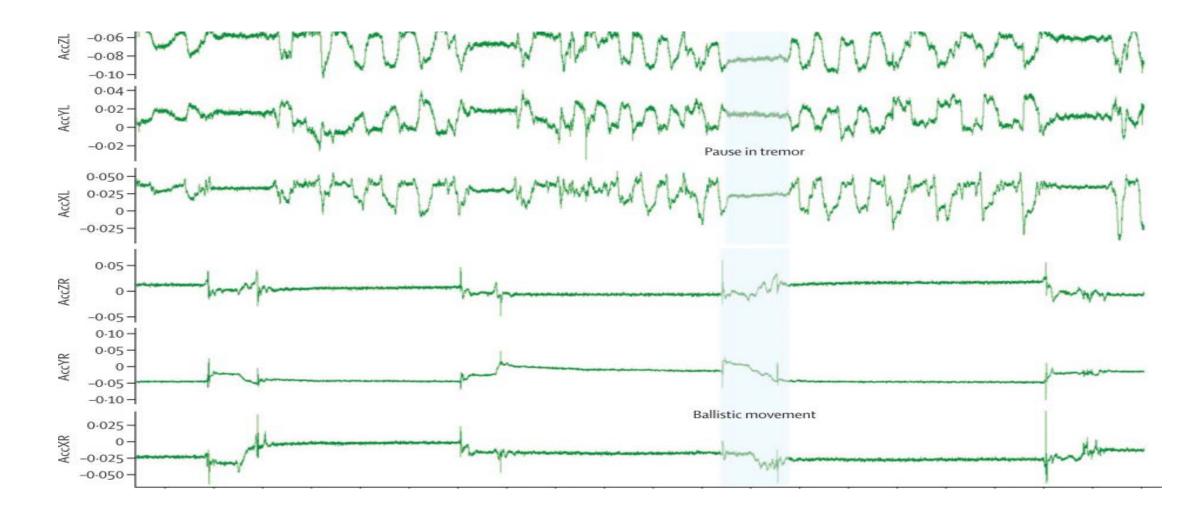


Joutsa et al. 2019



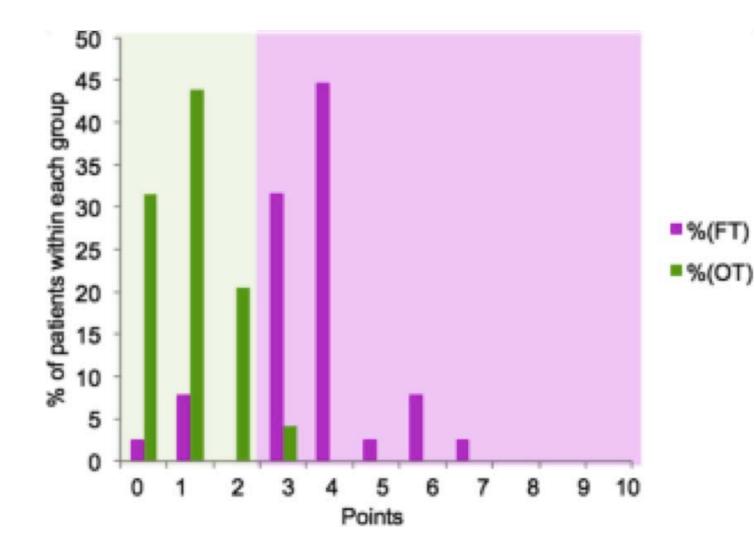
Functional (psychogenic) tremor





Functional tremor score

Schwingenschuh et al.2016



Functional tremor treatment

- Avoid diagnostic delay
- Aim for positive diagnosis (rather than diagnosis of exclusion)
- Use clinical signs to aid communication of diagnosis
- Consider precipitating factors (including physical and psychological)
- Multi-disciplinary team approach including physical therapy and symptom-orientated CBT

Treating parkinsonian tremor

Levodopa	Consider alternative coexisting diagnoses and pharmacokinetic factors	MAOi, agonists (including apomorphine) and amantadine	Anticholinergics
Beta-blockers	Clozapine	Botulinum toxin	Deep brain stimulation or MRgFUS

Summary of assessment

Tremor distribution

Context

Manoeuvres to increase amplitude

Entrainment and other tests of functional tremor

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Summary

Tremor in Parkinson's is many things Parkinsonian tremor is not always Parkinson's disease Think of pharmacological, non-pharmacological and surgical options



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