

# Breaking Down Bradykinesia

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# Disclosures

- Receipt of grants/research supports:
  - Boston Scientific, MJ Fox Foundation, Medtronic, University of Toronto, McLaughlin Centre,
- Receipt of honoraria or consultation fees:
  - Abbott, Abbvie, American Academy of Neurology, Brainlab, Boston Scientific, Ceregate, Chiesi Farmaceutici, Inbrain, International Parkinson and Movement Disorder Society, Ipsen, Medtronic, Novartis, TEVA Canada, UCB pharma, Sunovion
- Participation in a company sponsored advisory board
  - Abbott, Abbvie, Boston Scientific, Ipsen, Medtronic, Sunovion

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## VIEWPOINTS

### Redefining Bradykinesia

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*Movement Disorders, 2023*



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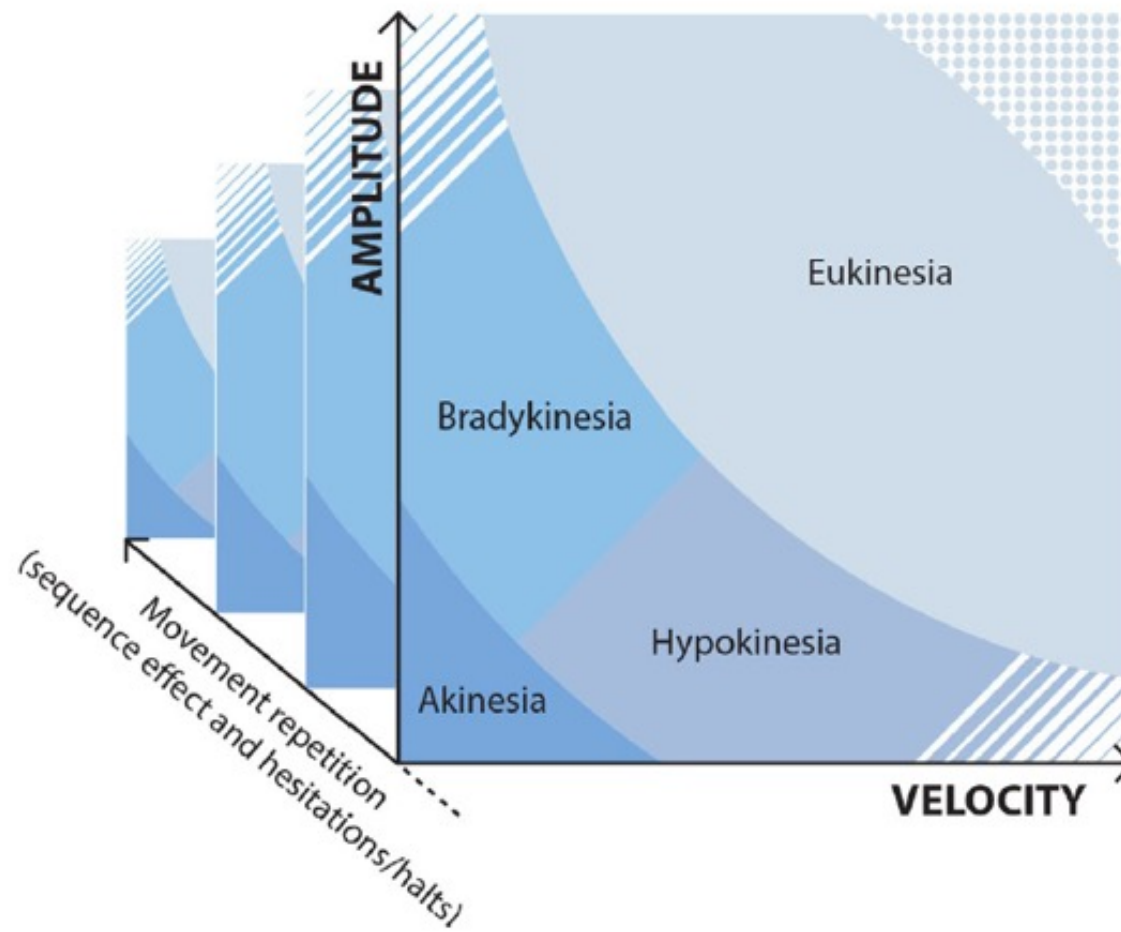
Neurology

# Bradykinesia *complex*

Feature	Definition	Types of movements being affected
Bradykinesia	Reduced velocity of movements	Single or repetitive, alternating and continuous movements (limbs and body axis)
Hypokinesia	Reduced amplitude of movements	Single or repetitive, alternating and continuous movements (limbs and body axis)
Sequence effect	Progressive reduction in amplitude and/or velocity	Repetitive, alternating, and continuous movements (limbs)

Feature	Definition	Types of movements being affected
Hesitations/halts	Irregularities in movement timing	Repetitive, alternating, and continuous movements (limbs)
Akinesia	Inability to perform a movement	Single, repetitive, alternating, and continuous movements (limbs and body axis)
Oligokinesia	Reduction/lack of spontaneous/automatic movements	Spontaneous blinking, spontaneous facial expressions, pendular movements of the upper limbs during walking





# Is this bradykinesia?



# Sequence effect

# Freezing of gait



# Sequence effect without halt

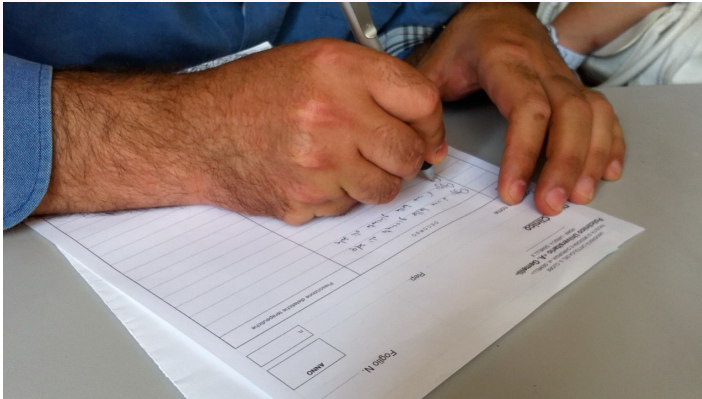


# Micrographia

Oggi è una belle giornata di sole  
Oggi è una belle giornata di sole  
Oggi è una belle giornata di sole



Oggi è una belle giornata di sole  
Oggi è una belle giornata di sole  
Oggi è una bella giornata di sole



# Spontaneous movements: example of arm swinging

# Same person 10 years after STN DBS

*Thank you!*

