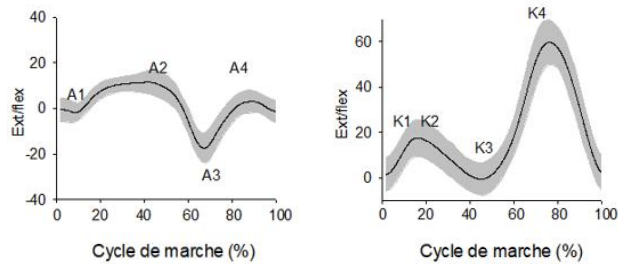


Effects of Three Cycles of Progressively Higher Doses of Botulinum Toxin on Sagittal Kinematic Gait Parameters in People With Multifocal Spasticity After Stroke: A Prospective Cohort Study

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Previous studies have reported functional gait improvements following repeated botulinum neurotoxin type A (BoNT-A) injections
Effects on gait kinematics remain unclear



Postural gait patterns

Equinus during stance
Equinus during swing
Stiff knee gait
Knee recurvatum
Knee flexum

Sagittal kinematics ankle and knee

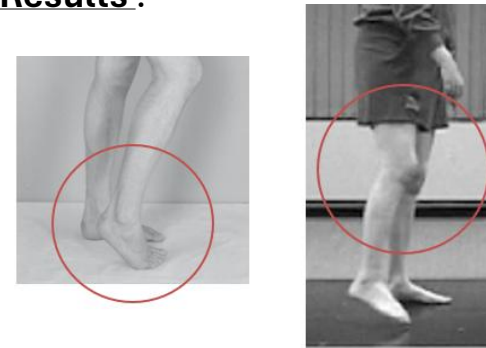
25 people with spastic hemiparesis after stroke responsible for gait impairment

1^{ary}, 2^{ary} and 3^{ary} spastic gait patterns identified for treatment

3 cycles of progressively higher doses of BT-A (Inco)



Results :



After 1 cycle



After 3 cycles

Equinus (A1, A2, A2-A1): - 2,7° (p=0,008)
SKG (K4, K4-K3): + 6,8° (p<0,001)

Conclusion :

Repeated injections with higher doses of BT-A allow to improve ankle and knee sagittal kinematics