Posture and Core in Polio



Why has my posture deteriorated?

- Post Polio Syndrome
 - New weakness
 - New fatigue
 - Loss of endurance
- Leg length discrepancy
- Scoliosis, lordosis, kyphosis
- Heavy assistive devices
- Use of mobility aides
- Fear of falling
- Weak core
- Osteoporosis
- Normal ageing process

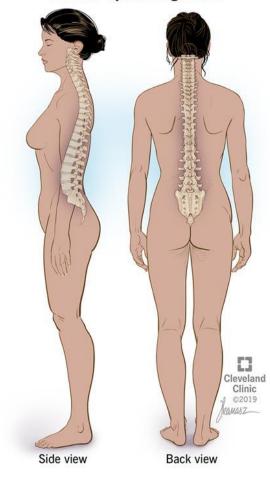


Posture

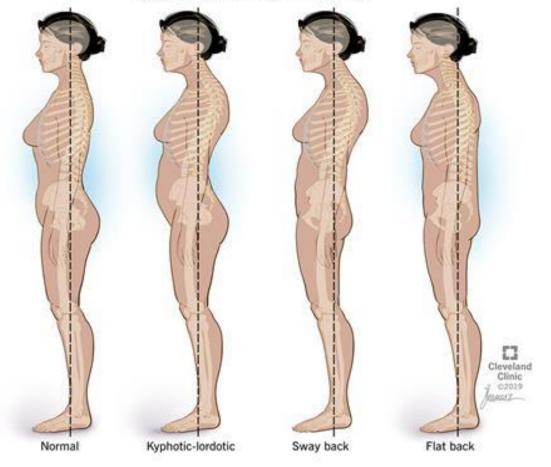
- People with neurological conditions such as PPS can find it difficult to maintain control of correct posture.
- Posture control requires the musculoskeletal and neurological systems to work together to maintain normal alignment.
- When one or both of these systems struggle we tend to compensate by overusing some muscles, leading to muscular imbalance, tightness, weakness and often pain.
- Progression of symptoms can lead to falls and a decrease in ability to perform common activities of daily living.

Normal versus poor posture patterns

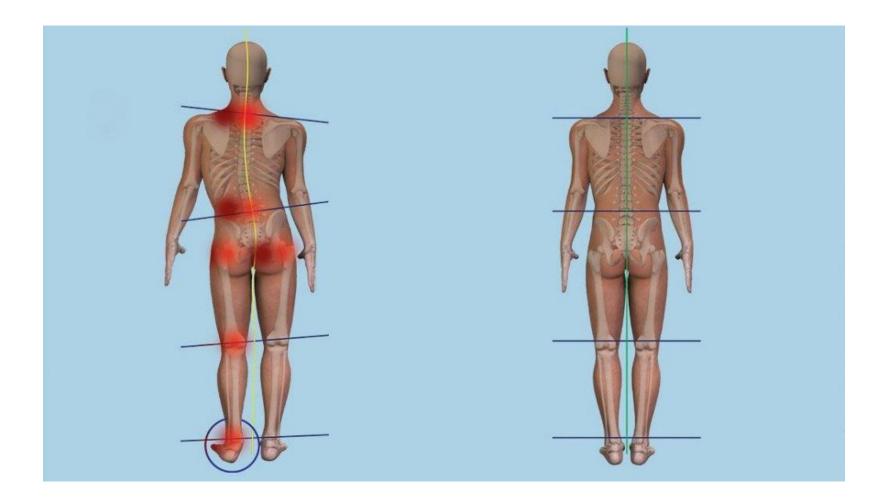
Normal Spinal Alignment



4 Common Postural Tendencies



Effect of leg length discrepancy on posture



What can be done to improve my posture?

- Thorough assessment of standing and sitting posture
- Correction of leg length discrepancy
- Energy conservation
- Mobility devices
- Balance training
- Core exercise
- General strengthening program for suitable muscles

What are the core muscles?

- The core is a group of muscles extending from the ribs to the pelvis
- Think of them as like a girdle for your trunk
- They include
 - Transverse abdominus
 - Internal/external obliques
 - Rectus femoris
 - Multifidus
 - Erector spinae
 - Pelvic floor, Diaphragm, Gluteals

Why are core muscles important?

- Core muscles support, control and move your trunk and pelvis
- Core muscles stabilize your trunk whilst moving your limbs
- Control of core muscles allow us to bend forward, backwards, sideways, and to twist.
- Working on strength and control assists in improving balance reactions, decreases energy expenditure (via decreased excess movement), improves posture and prevent pain in the lumbar spine

Exercises for posture and core

- Should be done in consultation with a physiotherapist initially
- Performed lying, sitting or standing according to your level of ability
- Should be progressed slowly watching for signs of fatigue, such as
 - Muscle cramp
 - Muscle twitching/fasciculations
 - Increased effort
 - Fatigue the following day
- Should be done in low repetitions, moderate intensity with rests in between for muscle recovery. ie stop before you get tired!
- Mirror for feedback