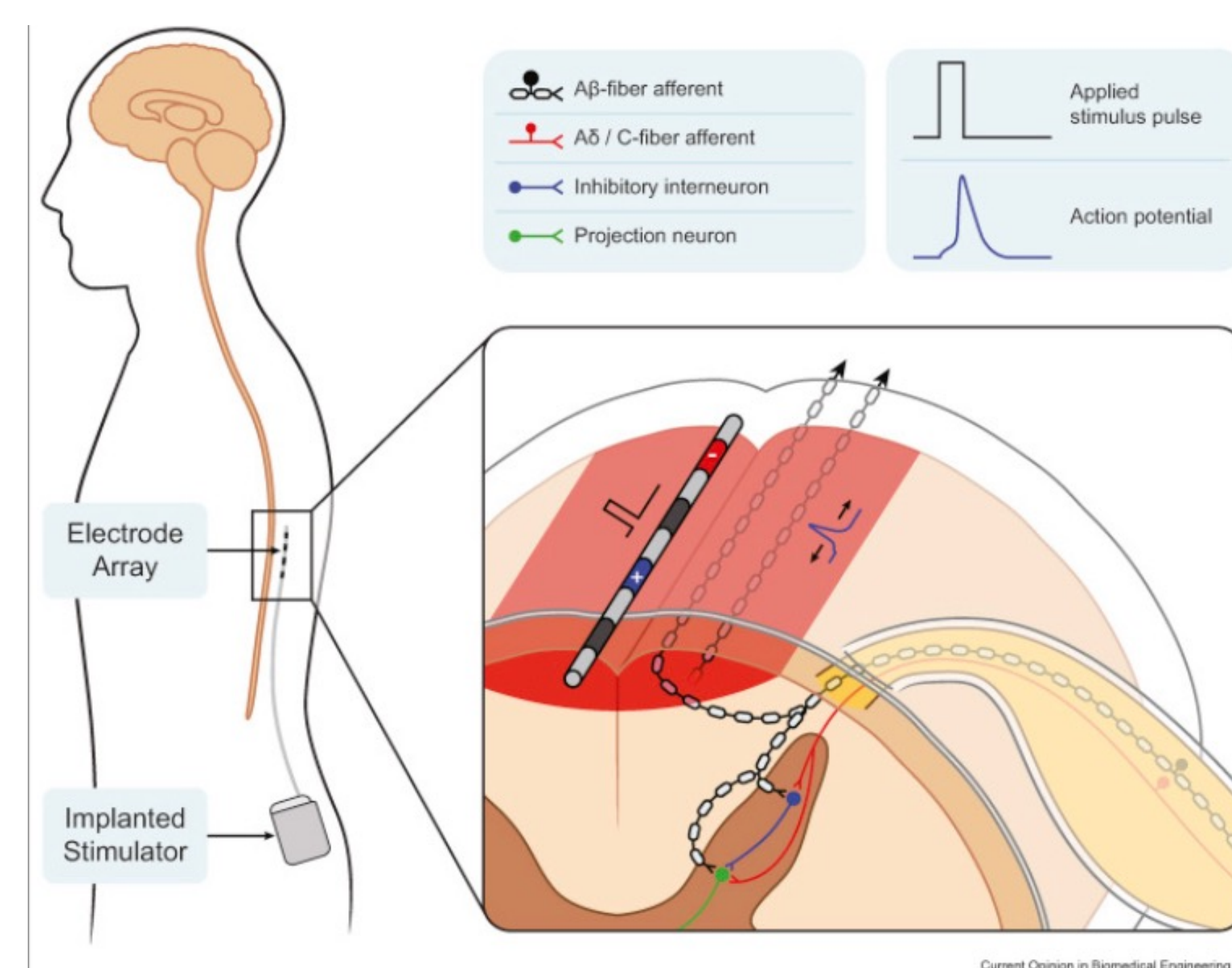


Introduction

Spinal cord stimulator (SCS) is a minimally invasive, reversible form of neuromodulation that uses mild electrical currents to alter the brain's pain perception.



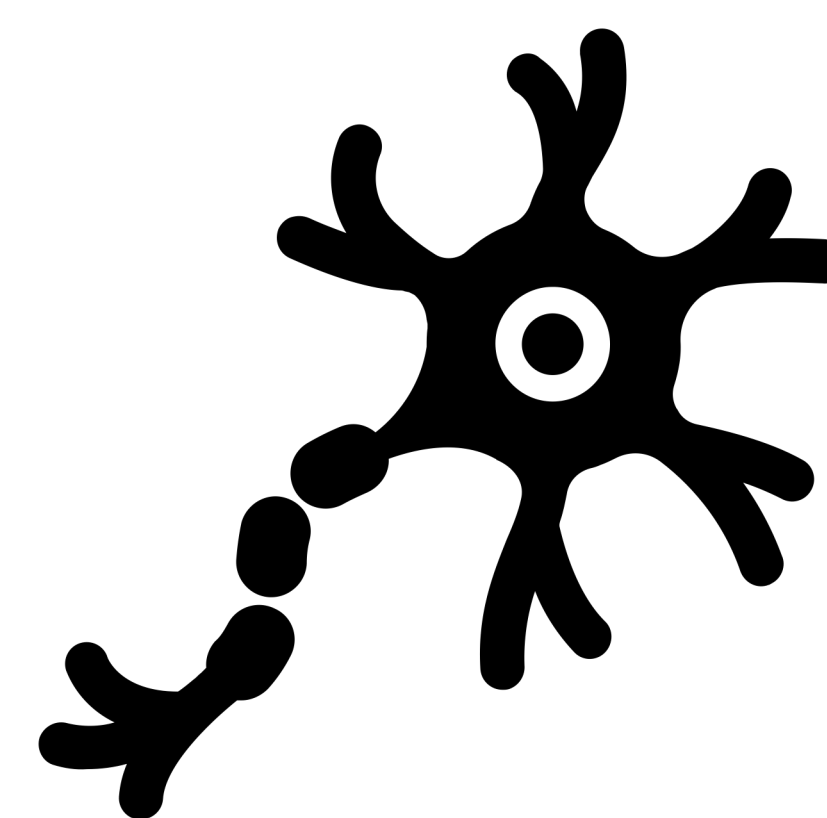
Conventional SCS's (40 to 80 Hz) mechanism is demonstrated through the Gate Control Theory.



- Electrical impulses activate Aβ fibers
- Activate inhibitory interneurons that release GABA
- Override nociceptive input from Aδ and C fibers

- The specific mechanism by which high-frequency SCS provides pain relief remains unclear. However, three main hypotheses have been proposed:

- 1** Depolarization Block
- 2** Desynchronization
- 3** Temporal Summation



High Frequency Spinal Cord Stimulator for **reduction** in **pain** and **medication use** with **improved function** and **mood** in refractory cases of PDN.

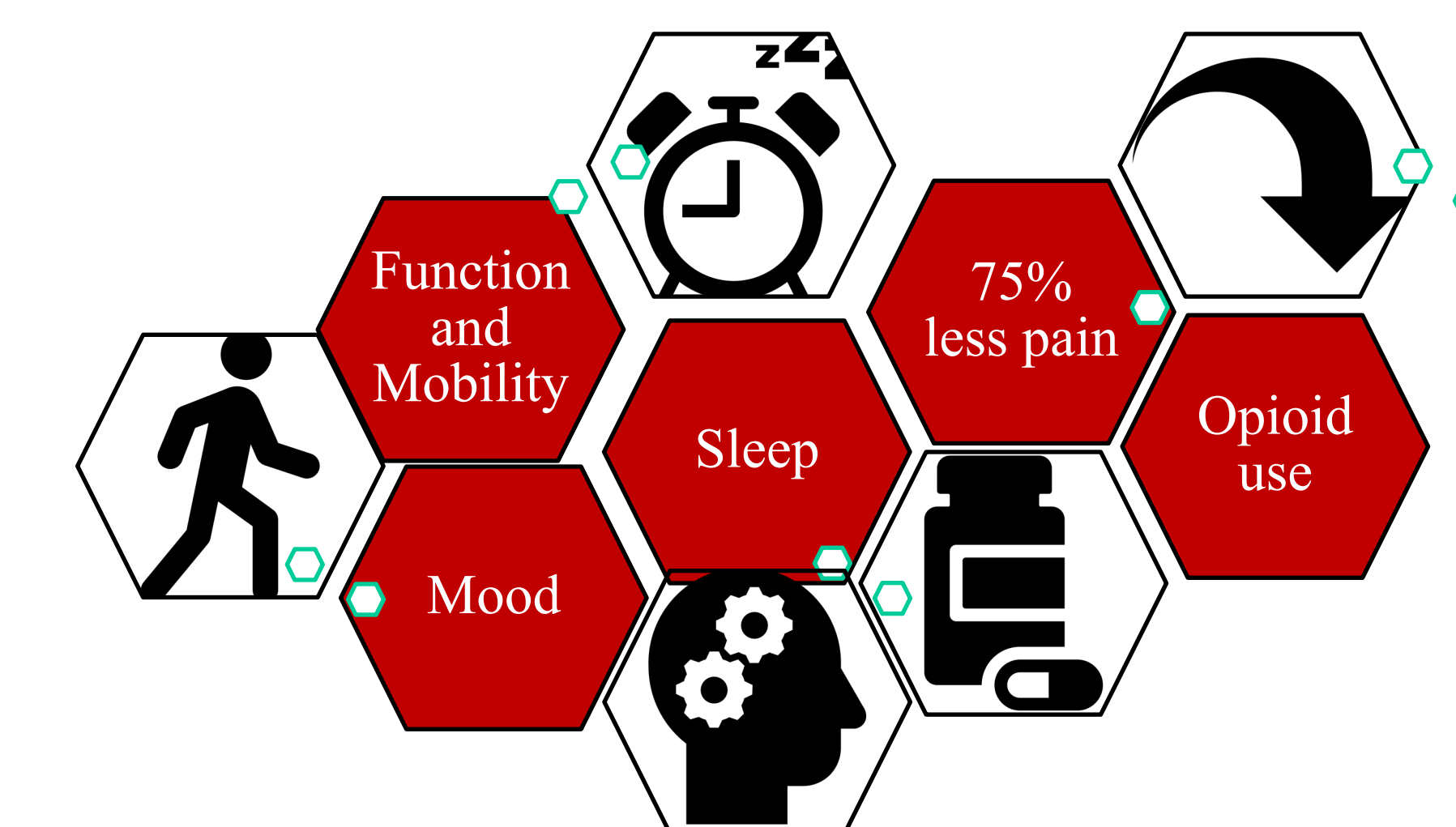
Scan me with your phone for full abstract!



RESULTS

A 73-year-old male with debilitating bilateral lower limb severe neuropathic pain affecting sleep, function and mood. The patient was using Pregabalin, Duloxetine, Methadone and BioWave.

Following the trial of 10 Hz SCS, the patient reported improved:



Discussion

