

Tonic stimulation

Tonic [stimulation](#) provides a consistent stream of [pulses](#) at a set [frequency](#), [pulse width](#), and amplitude. [Burst stimulation](#) delivers groups of pulses at a lower amplitude and a higher frequency than tonic stimulation. Bursts of pulses are followed by pulse-free periods during which charge balance occurs.

Tonic stimulation, isolated or in combination, remains an important component in [spinal cord stimulation](#), being used by almost half of the patients. Over time, the usage of microburst increased considerably. Whisper and Contour, although battery-consuming, are good salvage options in complex cases ¹⁾.

¹⁾
S PG, S G, J SP, J V. Combination of waveforms in modern spinal cord stimulation. Acta Neurochir (Wien). 2022 Jan 5. doi: 10.1007/s00701-021-05107-4. Epub ahead of print. PMID: 34988708.

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Last update: **2024/06/07 02:57**

