



Ekso Rounds



SmartAssist

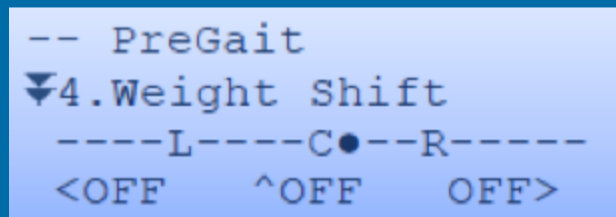
In this issue of Ekso rounds we are excited to share an overview of our latest software update, SmartAssist. SmartAssist provides many more options for the PT to challenge their patients, by reducing what the Ekso does, and allowing the patient to do more. There are also PreGait features to use in preparation for walking. SmartAssist allows you to do so much more than walking, so Ekso can now be a tool that you can use earlier with patients, and can continue to use to challenge their patients as their abilities increase and they work towards independence.

QuickFit - Using an ID number, Ekso devices with SmartAssist can now store up to 2,000 different patient settings. This will allow for patient settings and options to load once their ID number is entered. This can reduce setup time and allow for more time to walk in the Ekso.

EksoPulse - We are happy to announce the launch of our online portal! With EksoPulse, clinicians can use their log in to view patient settings and track their progress with the device over time.

PreGait - This new menu provides multiple options to get your patients up earlier, and provides options other than walking. These can be used before the patient walks in Ekso, or within subsequent sessions for continued work on strength, midline orientation and balance control.

Weight shift - This setting provides audio and visual biofeedback to the patient for proper weight shifting. These cues are customizable to meet the patients' needs. A cue can be sent for the left, right, and midline. This can be a very helpful task for patients with impaired midline orientation and greatly improves patient weightshift abilities prior to a session in Ekso.



Step in place - Step in place allows for freedom in both legs to complete dynamic balance and weight shift activities such as marching in place, split stance weight shifts, and alternating step taps. At the same time you can choose various levels of stance support to provide the appropriate level of challenge while keeping the patient safe.

Squats - With the squats feature, you can allow the patient to complete up 45°, 65° or 90° squats with various level of stance support.

Sit program changes - minimal lean sit allows for patients to sit with a more upright torso position. It is a more comfortable sitting option for patients with limited end range hip flexion or peg tubes.

Flexible stance - SmartAssist now allows for variable assistance in stance phase as well. For legs that are under trajectory control, this allows some degrees of freedom for the patient to control in the stance phase, and provides feedback values for the therapist to see how much the Ekso is assisting at the hip and the knee

FreeGait - FreeGait allows for both legs to be free from the programmed trajectory. This takes away the need for the patient to lead the programmed trajectory, and allows the patient to step with their self-selected movement pattern while providing various levels of stance support if needed. In swing, the therapists can decide to provide some swing assistance to aid in foot clearance, or swing resistance for strengthening or in cases of ataxia. This allows for immediate assessment of the patients ability to learn a new movement pattern, while still having the structure of the exoskeleton limiting motion other than sagittal plane motion. The therapists can quickly switch between trajectory control and trajectory free motion, to aid in motor learning for the patient. FreeGait not only allows for free forward motion, but also allows for backwards walking and side stepping as well.

[Please watch this brief overview video for more details on Ekso SmartAssist](#)

Have any questions?

Please reply to EksoRounds@eksobionics.com to communicate with an Ekso Bionics clinical team member.



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