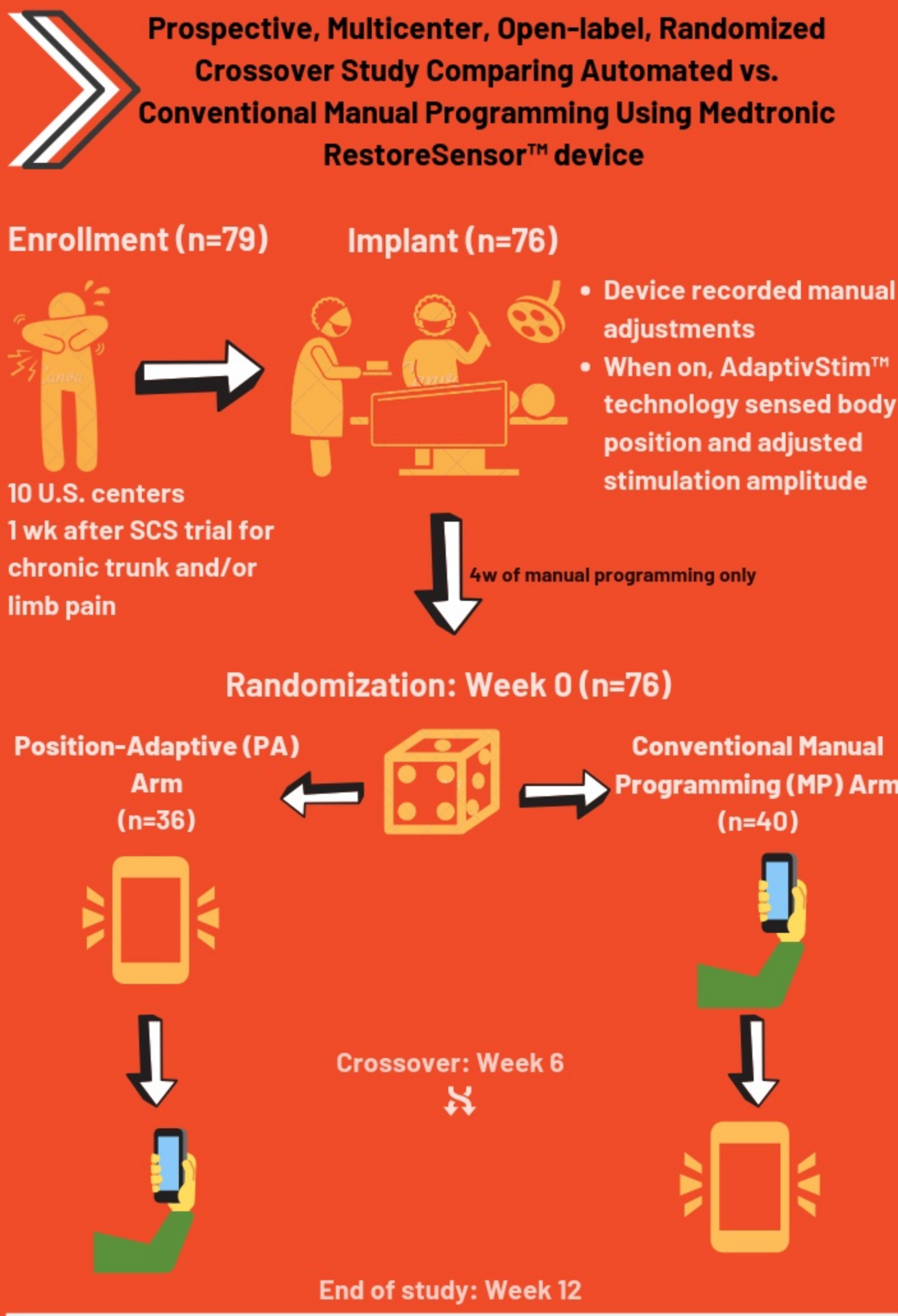


Sensor-Driven Position-Adaptive Spinal Cord Stimulation for Chronic Pain



Schultz, et al. (2012)



Pain Relief & Convenience

- 86.5%** (64/74) of patients with *improved* pain relief with *no* loss of convenience, or *improved* convenience with *no* loss of pain relief with PA vs. MP (**p<0.001**)

Relief, Adjustments, Change in NPRS

- 2.8% w/ worsened pain relief during PA arm
- 41%** drop in avg. # of button presses for PA arm (18.2 vs. 30.7, **p=0.002**)
- Decreased mean NPRS in **both** arms (**p<0.001**) w/ *no* significant decrease between arms

Safety and Participant Experience

- 90.1%** to leave PA on all/most of the time
- Improved comfort: **80.3%**
- Improved activity: **69%**
- Improved sleep: **47.9%**
- No* difference in adverse events related to uncomfortable stimulation

Automatic position-adaptive stimulation is safe and effective in terms of patient-reported improved pain relief and convenience compared with manual programming alone.