

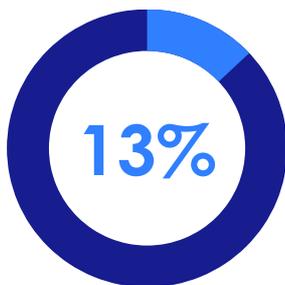
# John & Nuvio One



We met John during prototype testing of the Nuvio One. John suffered an incomplete spinal cord injury 6 months prior, sustained when he fell down a flight of stairs. He spent 4 months in an Intensive Rehab Facility and had recently returned home to continue a long and challenging road to recovery. Despite fantastic care and trialing of many other assistive devices on the market, a front wheeled walker was his only suitable functional tool. We gave him Nuvio One with no practice or training.

*"I've never felt so safe. I can use my weaker leg much better and there's a huge difference in my confidence. This is going to improve the quality of my life."*

John



John's functional independence status improved from 61/90 to 73/90 on the CMS-based Mobility Outcome Measure, a 13.3% improvement in transfer and ambulatory status.



John's self-selected walking speed improved by a clinically significant 0.12 m/s, representing evidence-based benefits to his safety and longevity.

Outcomes-based metric scales like walking speed and the CMS-based Mobility Outcome Measure are used to drive decision making in healthcare everyday due to their related insights and cost/benefits on outcomes related to length of hospitalization, risk of re-admissions, safety, caregiver burden, and recovery potentials.



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According to CMS MEPS data provided by 1,100 rehab hospitals across over 400,000 rehab hospitalizations in 2019, every 1% of functional mobility status improvement takes on average ~0.7 days of time in the hospital to achieve. The average cost of a night of rehab hospitalization in the US is ~\$1,100 with a night of acute hospitalization climbing to \$2,700.

When considering gait speed, clinically significant improvements have been found to impact both falls risk and 9-year longevity, or the likelihood you'll still be alive in 9 years time.

By extrapolating John's single day prototype testing results and comparing to the evidence around these metrics, we can see the potential for a network effect of benefits in our outcomes-based design approach.

<b>Metrics</b>	<b>Basic Walker as Primary Mobility Tool</b>	<b>Improvements with Nuvio One as Primary Mobility Tool*</b>
Length of Hospitalization	120 days	<b>-11 days</b>
Associated Medical Costs	~\$132,000	<b>-\$11,000</b>
Falls Risk		<b>-7%</b>
9-Year Longevity		<b>+31%</b>
Physical Care Burden During Mobility?	Yes	<b>No</b>

\*John spent only a single day with Nuvio One. These improvements are based on using evidence-based data around clinically significant gait speeds, pulling average outcomes improvements across an LOS from MEPS data, and known average medical costs for IRF stays.

We look to expand on these prototype testing results in the near future with formal pilot studies to include same day and over time functional comparisons.

If interested in trialing, piloting, or learning more - please contact us.



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