DISCLOSURE

I have no financial/commercial disclosures relevant to this presentation.

OBJECTIVES

• Recognize the benefits of virtual reality/robotics in treatment
• Identify current products on the market for clinical intervention
• Appropriate patient populations for treatment with the Armeo Spring.
ROBOTICS IN TREATMENT

ROBOTICS IN THE LITERATURE
- Role of Clinician
- Repetition of Movement
- Patient Engagement
- Objective Data

ARMEO® SPRING
ARMEO® SPRING

Interactive Environment

ARMEO® SPRING

Assessment Tools

ARMEO® SPRING

Patient Testimonial

- KW, age 61. Shoulder weakness s/p brachial plexus injury
  - Feels use of ARMEO allows for greater, more purposeful movement during treatment.
  - Doesn’t mind engagement in games as they are engaging
REFERENCES


Acknowledgements

Anesthesiology, Pain Intervention
Srinivas Chiravuri, MD

Neurology, Electrodiagnostics
Ann Little, MD

Neurosurgery
John E McGillicuddy, MD

Physiatry, Electrodiagnostics
Sandra L Hearn, MD

Physiatry
James A Leonard, MD

Plastic Surgery
Virginia S Nelson, MD, MPH

Plastic Surgery/Hand Surgery
M C Catherine Spires, MD

Clinical Program Coordinator
Miriana Popadich, NP

Program Coordinator
Veronica McLaughlin

Medical Assistant
Sharon Brown

Occupational Therapy
Sarah Johnson, OTRL

Occupational Therapy
Denise Justice, OTRL

Occupational Therapy
Lynnette Rasmussen, OTRL

Lead Researcher
Kate W-C Chang, MA, MS

Director
Lynda J-S Yang, MD, PhD

Professor, Neurosurgery
Patricia M Neuwirth, MD

Professor, Neurosurgery
Karon Chang, MD, MS