Patient Perspectives

Real-Life Excitement and Concerns of Community-Based Artificial Intelligence Imaging

By Josh Basile and Harsh Thakkar

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FDA Public Workshop
Evolving Role of Artificial Intelligence in Radiological Imaging

Member of the FDA Patient & Care-Partner Connection Program
Josh Basile’s Paralysis Journey

August 1, 2004
18 years old
Beach Accident
C4-5 Quadriplegic

Catastrophic Injury
Attorney
Harsh Thakkar’s Paralysis Journey

December 2006
20 years old
Gunshot Wound
T12-L1 Paraplegic

Program Coordinator,
Health and Wellness
National Rehabilitation Hospital
Struggles and Barriers To Accessing Health Care

- Architectural
- Equipment
- Training unexperienced health care providers
- Locating experienced and specialized health care providers
- Transportation
- Payment/funding
What excites us most about AI imaging in the home?

- Convenience in one’s own home
- Reduction of dependency
- Expedited answers
- Increased care options
- Preventing secondary health
- Preventing rehospitalization
- Promotes active lifestyles
- Financial savings to the health care system
How would you physically use AI imaging in the home?

Josh (Quadriplegic)
- Dependent on family, friends or caregivers
- Bed or wheelchair

Harsh (Paraplegic)
- Independently if design is user-friendly
- Bed or wheelchair
What would you specifically use AI imaging for?

Spinal cord community
- Monitoring triggers of autonomic dysreflexia
- Bladder and kidney
- Blood clots
- Broken bones
- Heterotopic ossification
- Pressure sores
- Spinal compression
- Tumors
What access concerns do you have about AI imaging in the home?

- Costs
  - Who is the payor for this technology?
  - Are the most needy community members going to have access to this technology?
- Will health information be protected?
- Will technology impact community exploration?
- Access to Internet in rural or poor communities
What safety concerns do you have about AI imaging in the home?

- Improper imaging results in incorrect diagnosis
- Self-diagnosis
- Push to hard irritating skin or area of interest
- Introduce foreign contaminants and bacteria
- Psychological damage
  - Inaccurate readings
  - False hope
- Overexposure and/or side effects of imaging
What AI imaging safeguards would you want to put in place?

- In-depth tutorials (paper, video, or in-person)
  - One focused on patient use
  - One focused on a family, friend, and caregiver use
- Products designed for lay person to operate
- Products designed for easy use from bed or wheelchair
- Automatic shutoff to prevent fires or burns
- Strict cleaning protocol or self-cleaning elements
- Strong data security protecting health info
When should someone with an SCI start using AI imaging in the home?

If adequate training is provided

- **Newly injured population**
  - Provide trainings while at inpatient rehabilitation
  - Incorporate immediately upon returning home

- **Chronically injured population**
  - Incorporate immediately
  - Utilize technology to enhance current established approaches for addressing secondary health conditions
  - Should not change what works but rather use this as an additional layer of information and quicker access to care
Contact Us

Nonprofit Foundation
- www.Determined2heal.org

Video Mentoring Website
- www.SPINALpedia.com

United Spinal Association DC Metro Chapter
- www.unitedspinaldc.org

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