

Rehabilitation Strategies and Mobility Devices

Medication

Medical testing

ab results

Clinica Treatm

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Blood Tests

DISCLAIMER



Chemical Mak

Blood Tests

cal testing

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Kayla Kotake, PT, DPT, CDP

The following personal financial relationships with commercial interests' relevant to this presentation existed during the past 12 months:

No relationships to disclose or list







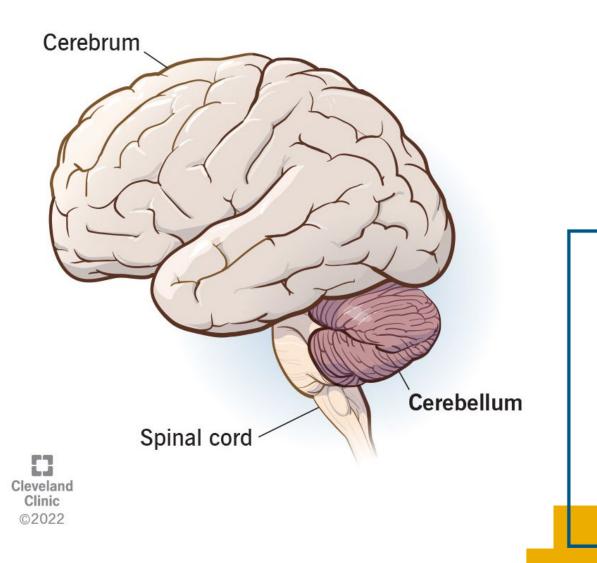
Role of the Cerebellum





- Influences balance, posture, muscle tone, and coordination
- Motor planning and execution of movement
- Motor learning









Rehabilitation Team



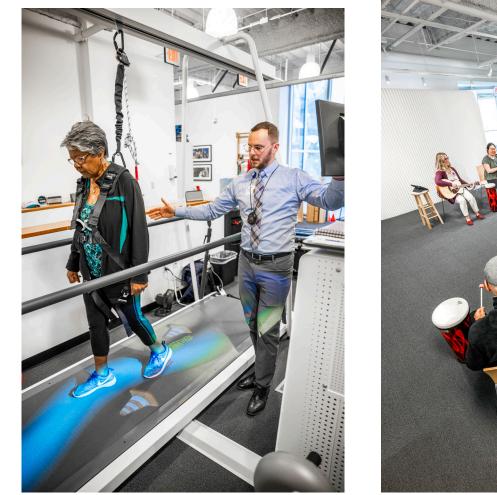


The Who's Who

• Physical Therapy

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- Occupational Therapy
- Speech Therapy
- Music Therapy
- Mental Health
- Social Work



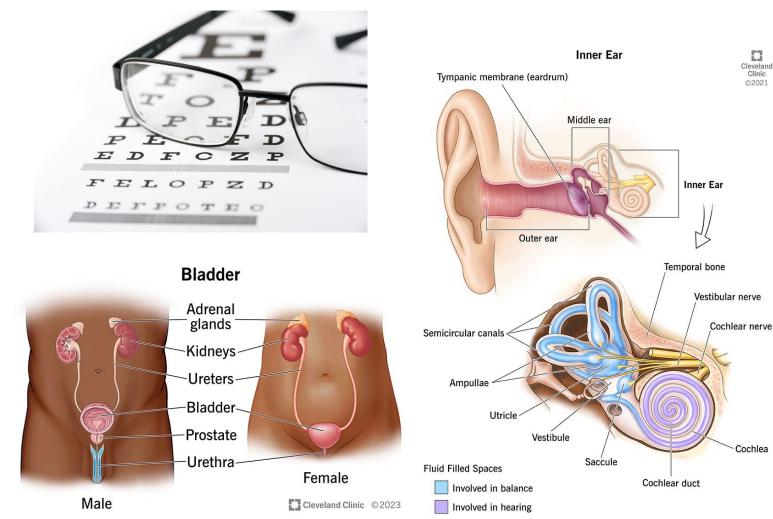






# **Special Teams**

- Neuro ophthalmology
- Physical Therapy
  - Pelvic Health
  - Vestibular







# **Literature Review**



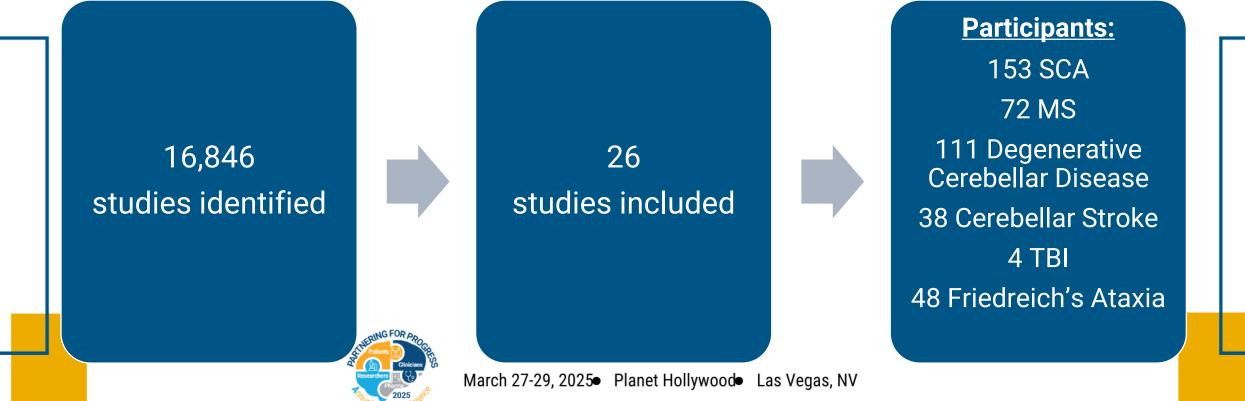




OPEN ACCESS OPEN ACCESS

#### Effects of therapeutic exercise on disease severity, balance, and functional Independence among individuals with cerebellar ataxia: A systematic review with meta-analysis

Stanley Winser PhD, MPT, BScPT<sup>(D)</sup>, Ho Kwan Chan BScPT student, Wing Ki Chen BScPT student, Chung Yau Hau BScPT student, Siu Hang Leung BScPT student, Yee Hang Leung BScPT student, and Umar Muhammad Bello PhD, MScPT, BScPT







#### Interventions:

**Balance & Coordination** Functional strength Core strength Perturbations **Pilates** Aerobic activity Gait training (overground & treadmill) Home exercise program Fall prevention training Aquatic therapy Bed mobility training Virtual reality and gaming

#### **Conclusions:**

1. People participating in therapeutic exercise saw a significant decrease in disease severity (SARA) when compared to controls.

2. Conventional therapeutic exercise with additional therapies were found to have a significant impact on improving balance performance (BBS).

3. To sustain benefits from therapeutic exercise, it is highly recommended to continue a home exercise program





# **Physical Therapy Evaluation**















#### • Come dressed to move

- Be engaged
- Bring your assistive device
- Arrive on time







- Home exercise program
- What are your therapy goals
- What is the plan for your long term care









# Goals







#### Functional Tasks

- Leisure Activities
- Vacation
- Family







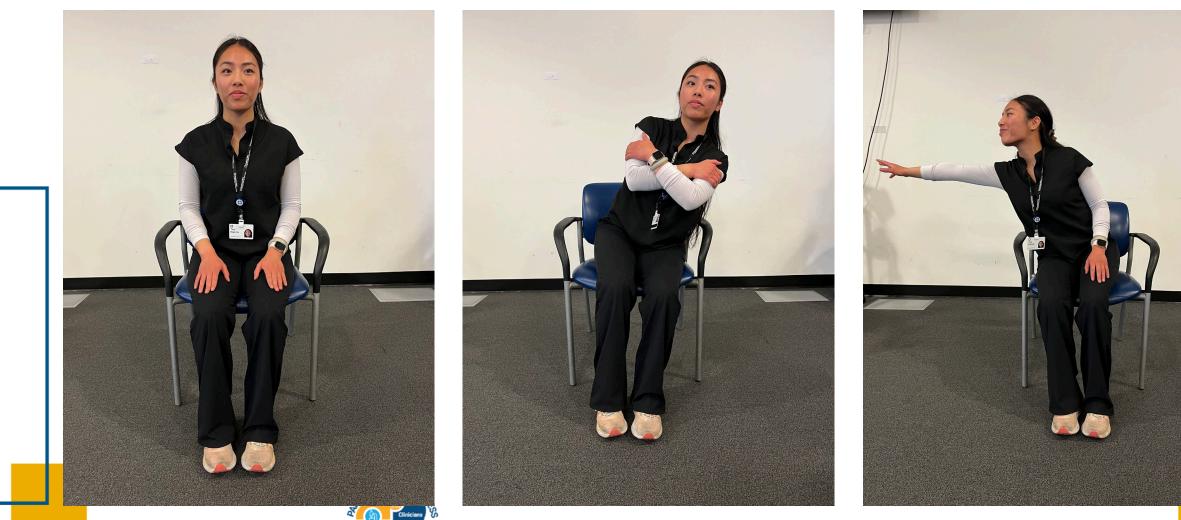
# **Exercise Recommendations**







#### **Seated Balance**





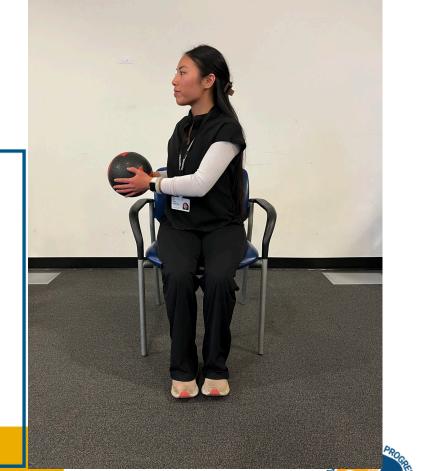


#### **Standing Balance**











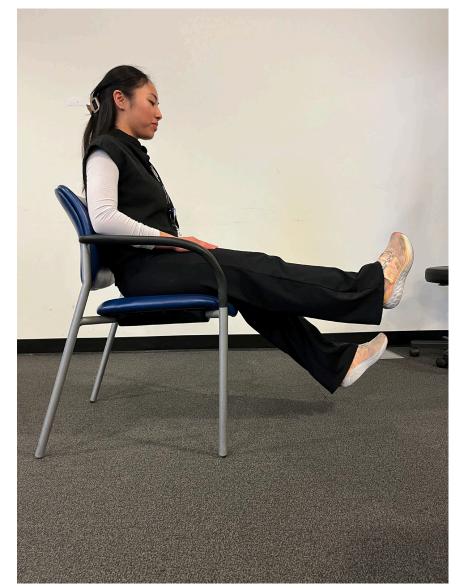






#### • Bicycle kick

- Flutter kick
- "Hand Jive" kick

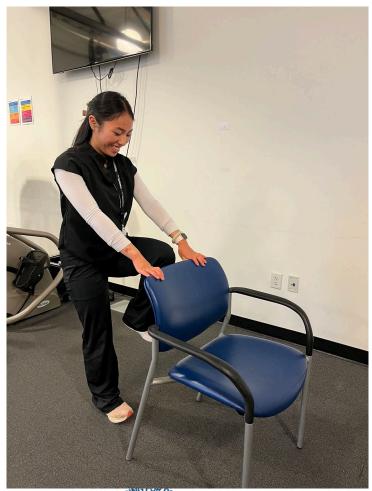








### Marching



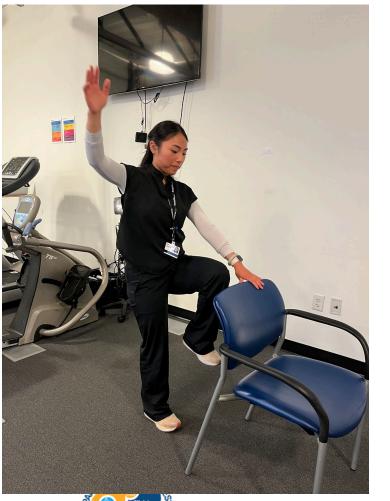








## **Dynamic Marching**





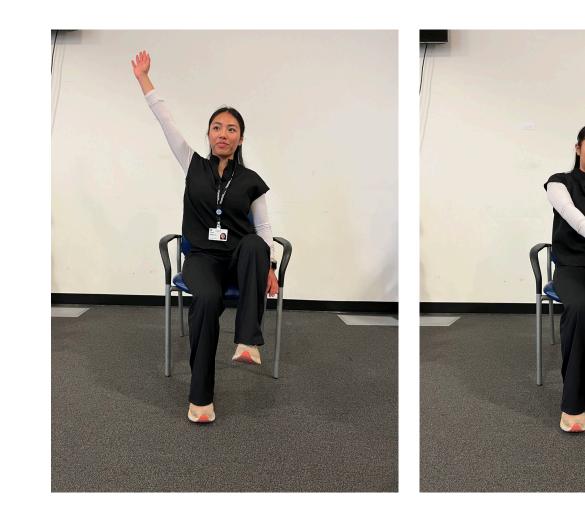






### **Seated Marching**







# **Mobility Devices**















**Drive Nitro Rollator** 





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Standard Walker with Arm Troughs

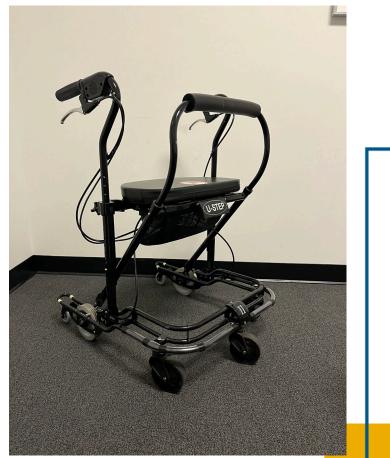


Upright Walker



March 27-29, 2025 Planet Hollywood Las Vegas, NV

U-Step Walker







Ultralight Foldable



Pride











# **Manual Wheelchairs**







#### **Power Wheelchairs**











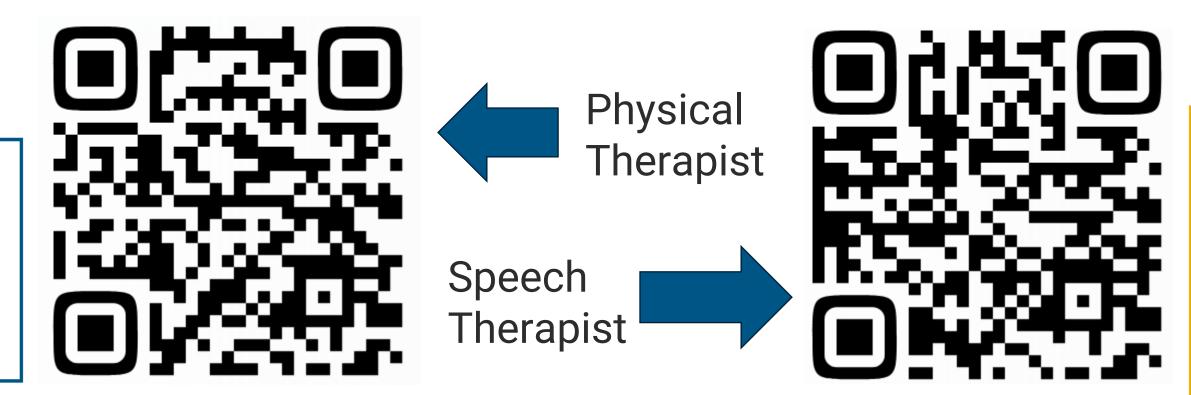


# Resources





## **Find a Therapy Provider**







# **The Highlights Reel**







- Consult a physical therapist for a customized exercise plan
- Consistent participation in challenging home exercise
- Arrive prepared to your physical therapy appointments to maximize benefit
- Mobility devices are great tools to gain more independence

