Rehab is Over Now What?

NSCIA Webinar Series January 16, 2014

Kim Anderson-Erisman, PhD

Director of Education University of Miami Miami Project to Cure Paralysis Jennifer French, MBA

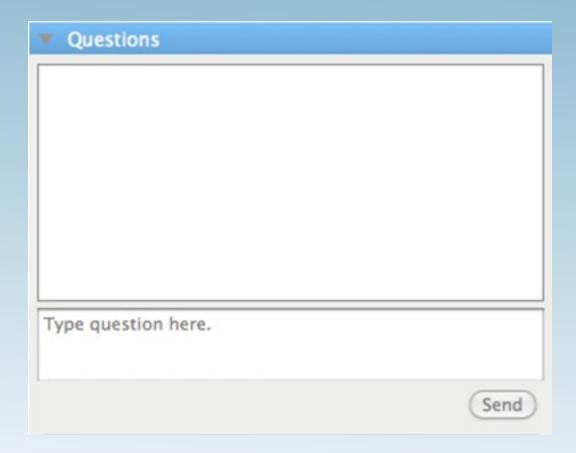
Executive Director Neurotech Network

Rehab is Over, Now What? Webinar





Have a Question?









www.theMiamiProject.org

The Miami Project is dedicated to finding more effective treatments and, ultimately, a cure for paralysis resulting from spinal cord injury.



www.NeurotechNetwork.org

Helping people regain life thru neurotechnology

Focusing on education of and advocacy to access neurotechnology devices, therapies and treatments for people living with impairments, their care-givers and medical professionals.





Disclaimer page

The information presented in this session is not meant to replace the advice from a medical professional. You should consult a health care professional familiar with your specific case, concerns and condition. We highly suggest for you to take information to a trained medical professional familiar with your case to discuss options that are best for you.



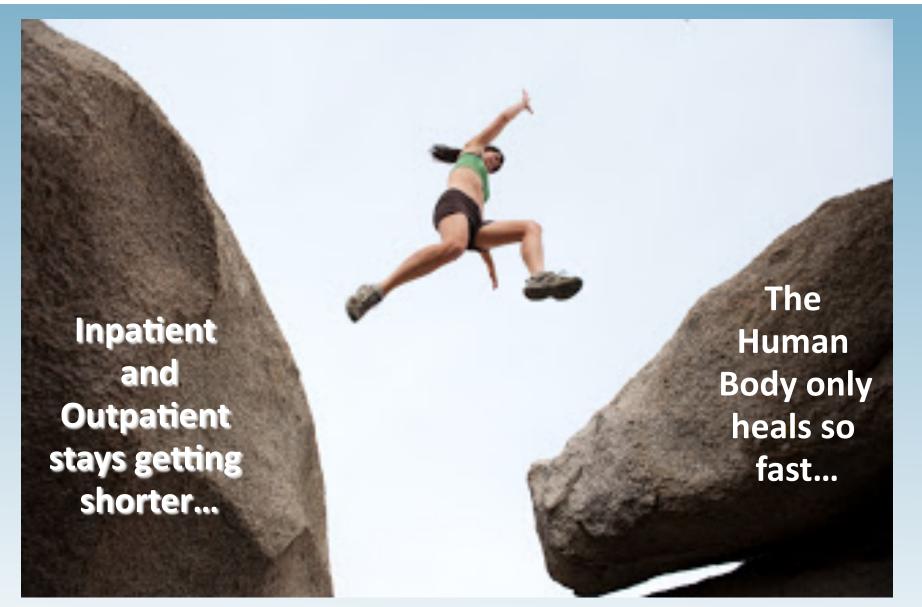


Agenda

- Importance & Need for Post Rehab Programs
- Types of Programs
- Questions to Ask
- Resources to find programs







Source: Jennifer McParland, Brooks Rehabilitation Hospital





Why is exercise important for people with paralysis?

- High incidences of:
 - Obesity*
 - Cardiovascular disease
 - Diabetes
 - Low metabolic rates
 - Pulmonary disorders
 - Osteoporosis
 - Pressure Sores

Key Take Away:

Exercise same impact as able bodies.

Can't maintain gains if stop exercising

* According to the CDC, people with disabilities have a 58% higher incidence of obesity compared to their able-bodied counterparts.





Rehabilitation vs Fitness

- Definition: Rehabilitation is a treatment or treatments designed to facilitate the process of recovery from injury, illness, or disease to as normal a condition as possible.
- Focus is
 - Restoration/recovery
 - Compensation
 - Limitations/adjustment
 - Independence

- **Definition:** Fitness is physical activity that is planned, structured, and repetitive for the purpose of conditioning any part of the body.
- Focus is
 - Improve health condition,
 - Maintain or improve fitness and
 - Prevention/performance

Wellness: An active process of becoming aware of and making choices toward a more successful existence





Low Tech vs High Tech Options

Low Tech

- Theraband
- Weights
- Yoga
- Dance
- Ropes
- Aquatics
- Adapted equipment

High Tech

- Video Gaming
- Virtual Reality
- Robotic Repetitive Motion Systems
- Exoskeletons
- NMES
- Biofeedback
- FES





Importance & Access to Exercise

| Is exercise important to functional recovery? | Currently have access to exercise? | | With or without a trained therapist? | |
|---|------------------------------------|-------------------------|--------------------------------------|----------------|
| NO 3.5% YES 96.5% | UNKNOWN NO YES | 24.2% 18.9% 56.9% | WITH WITHOUT | 12.2% 44.7% |

Overall, a total of **63.6%** (44.7% exercising on their own plus 18.9% without any access to exercise) **do not have access to a trained therapist** to oversee their exercise regiment.

Anderson, 2004. J. Neurotrauma. 21:1371-1383.





Most Prevalent Barriers to Exercise

- (1) Lack of energy,
- (2) Lack of motivation,
- (3) Lack of time,
- (4) Not knowing where to exercise, and
- (5) The cost of the program





Most Impactful Barriers to Exercise

- (1) Exercise will make your condition worse,
- (2) Too lazy to exercise,
- (3) Exercise is too difficult,
- (4) Do not know how to exercise, and
- (5) Lack of interest.





No striking differences in:

- Age
- Education
- Employment
- Injury level
- Injury completeness
- Independence
- Income?





Important Points

- While more than half reported their physician had advised them to exercise, less than a quarter had received specific instructions from their doctor regarding the kind of exercise to engage in or how often.
- Not having exercise equipment at home reduced the odds of being an exerciser by 68%.
- Lack of transportation did not decrease the odds of being an exerciser, but not knowing of an accessible fitness center did.





Conclusions

- Our results suggest that barrier prevalence may not be indicative of whether a barrier is associated with exercise status. Highly prevalent barriers may not decrease the odds of being an exerciser, while very uncommon barriers may strongly decrease the odds of being an exerciser.
- Our results further suggest internal barriers, followed by resource barriers, are most strongly related to exercise participation status.





Types of Programs

- Clinical Programs
- Stand Alone Programs
- Public Access & Private Gym Programs





Clinical Programs

- Locations: Rehabilitation Facility
- Gives You Access to:
 - Trained Rehabilitation Therapists
 - Guidance
 - Rehabilitation Equipment
- Program Structure: Goal-Oriented
- Financial Commitment: Typically not covered under insurance. Payment plans available





Clinical Program Access to Services



















Examples of Programs

- Beyond Therapy Atlanta, GA: http://www.beyond-therapy.org/
- Brooks Rehab Neuro-Recovery Center Jacksonville, FL: http://www.brookshealth.org/programsservice/neuro-recovery/
- Neurorecovery Network Several Locations: http://www.christopherreeve.org
- PEAK Center Englewood, CO: http://www.craighospital.org/
- Precision Rehabilitation Long Beach, CA: http://precisionrehabilitation.com/
- SHARE Program Minneapolis, MN: http://www.couragecenter.org/





Stand Alone Programs

- Locations: Specialized Facility
- Gives You Access to:
 - Personal Trainers/Exercise Physiologists
 - Specialized Equipment
- Program Structure: Goal-Oriented
- Financial Commitment: Membership fees or up-front payment





Stand Alone Program Access to Services



















Examples of Programs

- C.O.R.E.-Northridge, CA: http://corecenters.info/
- Journey Forward Canton, MA: http://www.journey-forward.org/
- NeuroXcel North Palm Beach, FL: http://www.neuroxcel.com/
- Next Step Fitness Lawndale, CA: <u>http://www.nextstepfitness.org</u>
- Project Walk Several Locations: http://www.projectwalk.org/
- SCI-FIT Sacramento, CA: http://www.sci-fit.org/
- The Recovery Project Two Locations in MI: http://www.therecoveryproject.net/
- Walk The Line Southfield, MI: http://walkthelinetoscirecovery.com/





Public Access/Private Gyms

- Locations: Gym, Wellness Center, Parks
- Gives You Access to:
 - Limited or No supervision
 - Fitness Equipment
- Program Structure: Limited or None
- Financial Commitment: Lost cost fees or Free





Public Access and Private Gym



Rehab is Over, Now What? Webinar





Questions to Ask

- What should I expect from a typical program?
- Is it a rehabilitation program or a fitness program?
- Will there be a trained professional monitoring my program? If so, what are his/her qualifications?
- What type of equipment will I have access to?
- What is the length of the program?
- How much will this cost me?





Where to Find These?

- Spinal Cord Central: http://www.spinalcord.org/resource-center/
- National Center on Health Physical Activity & Disability: http://www.ncpad.org/
- Wellness Center/YMCA
- Therapeutic Recreation
- Parks & Recreation





www.theMiamiProject.org/StayingHealthy

▶ What Is Spinal Cord Injury

Research

▶ Staying Healthy

ADVUL US

- > Frequently Asked Questions
- Resources for Care and Treatment
- Resources for Living with Paralysis
- ▶ Research Participation
- Download The Miami Project's General Information Packet

Video Library



"It's Like Heaven!"



"Aging with SCI'

Home > Paralysis Support > Staying Healthy

DOMUNIONS

STAYING HEALTHY

Stretching

rararysis support

Stretching is an important part of keeping your body healthy. You may also hear it referred to as passive range of motion.

GUIDES

Diet & Nutrition

Eating healthy is something we all know we should do, but we don't always know how. It doesn't have to be hard, start with small changes first!

TIPS

Exercise

There are many ways to exercise, as well as many reasons. It helps increase your strength and endurance, but can also help prevent other problems from developing.

RESOURCES

Sports & Leisure

Living healthy doesn't have to be boring! There are many ways you can include sports or leisure activities into your daily life and have fun while you are burning energy!

CONNECTIONS







Questions?

Kim Anderson-Erisman, PhD

Director of Education

University of Miami

Miami Project to Cure Paralysis

http://www.theMiamiProject.org

Jennifer French, MBA

Executive Director

Neurotech Network

http://www.neurotechnetwork.org/

Exercise Weak or Paralyzed Muscles http://www.neurotechnetwork.org/educate exercise.htm



