WEBINAR & TELELEARNING SERIES











Yoga and Non-Cardio Exercise:
Allies in Managing MS Symptoms and
Improving Overall Health

April 11, 2017











National Multiple Sclerosis Society

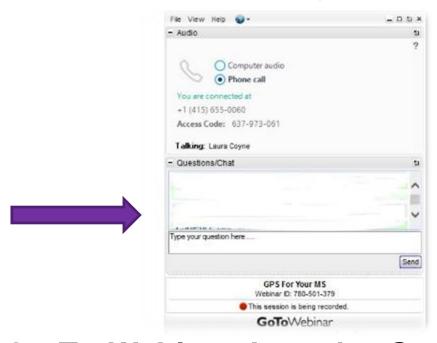




s

How to Ask Questions During the Webinar:

- Type in your questions using the Questions/Chat box
- If box is closed, click + to expand



Go-To-Webinar Attendee Support Line: (877) 582-7011





Sue Kushner PT, MS



Physical Therapist / Clinical Education Coordinator
Slippery Rock University
Pittsburgh, Pennsylvania





Lynn Stazzone, RN, NP



MS Nurse Practitioner
Partners MS Center
Boston, Massachusetts





WEBINAR & TELELEARNING SERIES











Yoga and Non-Cardio Exercise:
Allies in Managing MS Symptoms and
Improving Overall Health

April 11, 2017







What, no CARDIO?!?!

- •Cardiac exercises ARE important components of an exercise program and overall wellness.
- •BUT other factors are equally important!
- •You may not be able to participate in cardiac activities for a number of reasons.
- •Whether you can or cannot, your wellness program <u>must include</u> areas that are commonly emphasized with MS.





Aspects of an exercise program (non cardio):

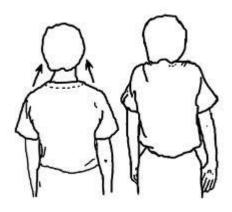
- •Keep in mind you have probably heard these before. **ALL are important!**
 - Strength training
 - Flexibility(stretching, range of motion)
 - Balance and Coordination
 - Stress reducers





Let's practice!! Right here, right now

- Pelvic tilt
- Ear to shoulder
- Unweighting each SIT bone
- Shoulder rolls/shrugs
- Quad sets/glut sets
- Ankle pumps

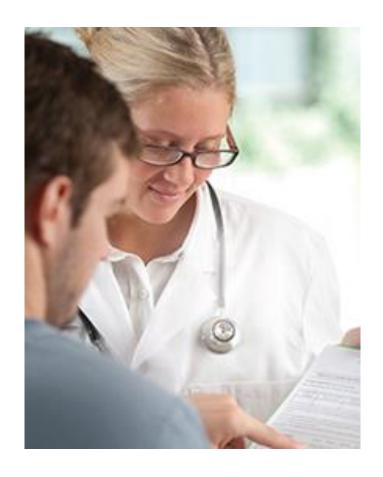


©COAST Rehab





How do you feel now?







Barriers to Exercise... especially with MS

- Fatigue
- Depression
- Sleep
- Altered sensation
- Pain
- Spasticity/Weakness
- Stress
- Previously sedentary/priorities

- Endurance
- Mobility/Transport
- Accessibility
- •Fear
- Heat
- Denial
- Self Image/Peer Pressure
- Cognitive changes





Why Choose to Exercise When You Have Multiple Sclerosis?

- •Exercise and Brain Health: Exercise may have a neuroprotective effect
- Insulin-like growth factor-1 appears to act as a neuroprotective agent and studies indicate that exercise could promote this factor in MS
- •Brain-derived neurotrophic factor (BDNF) increases in the hippocampus with physical activity, which may help **lessen the decline** in cognitive function in MS
- Cardiac risk factors lowered with yoga



Symptom Management

- Another way to control MS beyond disease-modifying treatments
- Activities in your individual exercise program should address symptoms:
 - Spasticity/Ataxia/Tremors
 - Fatigue
 - Weakness
 - Balance and coordination deficits
 - Pain
 - Depression





Symptom Management - Exercising

Fatigue

Increases stamina & endurance

Pain

- Posture
- Contractures

Depression

- Decreases stress
- Social interaction



© Bodi Empowerment





Symptom Management - Exercising

Weakness

Improves posture

Bladder

Pelvic floor strengthening

Bowels

Encourages bowel peristalsis or movement







Symptom Management - Medications

Fatigue

Amantadine Provigil

Pain

Neuroleptics

Depression

- •SSRI's
- Counseling





Symptom Management - Medications

Weakness

Amapyra

Bladder

Anticholengics

Bowels

- •Fiber
- Stool softner





Exercise and ActivityWE ARE MADE TO MOVE!!

- •If normal patterns of movement are compromised, modifications must be made.
- Everyone can do something.
- Incorporate your choices into your daily life.
- •Be creative!
- •Have fun!
- •Be social!







Your Care Team

MS Team

MS organizations

Financial advisor

Vocational counselor

Primary Care Provider

Friends

Support groups

Social worker

Psychologist/ Neuropsychologist

Psychiatrist

Neurologist Neurologist

MS Nurse

Community Health

Physical Therapist

Physiatrist

Urologist

Occupational Therapist

Speech therapist

Person With

MS



Coordination between <u>all members</u> is vitally important



WHAT to do? Who can help me?!?!

- •VERY important to find excellent team members for your healthy program.
- •YOU are the driver and must instruct the others what you want out of your program & what works for you.
- •You may need to **explore options** that are totally new to you and outside of your wheelhouse and **comfort zone.**
- Look at this as an OPPORTUNITY!!!
- •Find support groups/programs through NMSS/ churches/ gyms/YMCA/YWCA, community centers
- •IF you don't find what you like or need, **YOU** can be the catalyst to start something in your area!!



WHAT to do? (con't.)

- Some activities may incorporate all or some of the areas previously mentioned (strengthening, balance and coordination, flexibility)
 - Strengthening
 - Yoga
 - Tai Chi
 - Pilates
 - Aquatic exercises

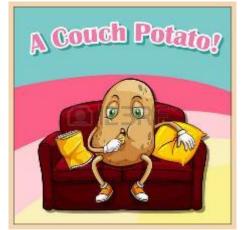






Weakness

- We lose strength and muscle mass as we age.
- Inactivity = greater loss of strength + muscle atrophy
- May be due to decreased neurotransmission
- May be secondary to fatigue or spasticity
- Identify cause



© 123RF





Strengthening

- VERY important part of your program, even if you had never done any before!!
- May improve areas of weakness & muscle imbalances.
- Can even improve posture, gait, respiratory function, & balance.
- •The best part: MUSCLE BURNS MORE CALORIES AT REST!!!!





Types of Strengthening:

- •Free weights excellent <u>but be careful</u> **keep safety in mind!**
- Ankle/wrist weights
- Theraband/exercise bands
- Swiss Ball
- Aquatic exercises-water acts as resistance!
 YOU DO NOT NEED TO BE A SWIMMER to gain benefits of aquatics and enjoy it!
 (be aware of water temperature)
- Weight machines
 - Kettle balls/weighted balls





More on Strengthening:

- Progression should be monitored
- •Emphasize areas that are identified as weak, but you need an overall strengthening program: Upper extremities, lower extremities, trunk (core)
- Vary activities to prevent overuse injuries
- •LISTEN to your body!
- •In general, 2-3x/week







Flexibility (stretching, range of motion-ROM)

 Lack of ROM can cause pain/discomfort and possibly eventual permanent loss of full range (contractures)

 Lack of ROM can lead to secondary problems such as orthopedic problems, gait deviations, frozen shoulder, kyphosis, plantar fascitis,

bed sores





Flexibility (stretching, range of motion-ROM)

- VERY important part of a program
- Direct link to balance and coordination
- Can help fight spasticity when done properly
- Like all exercise, safety first







Types of Flexibility exercises:

- Yoga
- Tai Chi
- Pilates



- Daily stretches that incorporate all of the body
- Swiss Ball
- Use of bands



ALL ACTIVITIES

CAN BE

MODIFIED

AS NEEDED!!







More on Flexibility:

- Can be done at any functional level
- May need help of a support partner, PT, OT, etc
- •Can be done in seated, supine, prone, standing, etc.
- Should be one daily
- Make sure you are getting all areas of the body-DAILY!
- •Look for classes.....NMSS, etc that will do the modifications for you.
- •Keep safety in mind!!
- •Are any braces, supports needed? Professional assessment!





Medications

Spasms

- Baclofen
- Benzodiazepine
- Acupuncture
- Cold or hot packs
- •TENS
- Yoga







Balance and Coordination (B and C)

- •Strength and ROM contribute to B and C!!! (along with other factors, i.e. fatigue, spasticity, pain, etc.)
- VERY important to be properly assessed for B and C. Safety is paramount!!!
- Assistive devices or braces
- •Can be done on land, in water, on Swiss Ball, etc.
- •Be aware of dizziness, vertigo, visual deficits, decreased sensation in feet and legs... "where things are in space"
- Like most symptoms related to MS, may vary daily



Types of Balance and Coordination Activities

- Aquatics: classes, walking/marching forwards, backwards, and sideways
- Harnessed walking: find a PT clinic that offers thisexcellent for balance and confidence!
- •Swiss Ball-numerous B and C activities on the ball. May use a "peanut shape" for increased balance. May need a spotter or support partner, PT for safety on ball. Can be very fun!!
- •Use kitchen counter, variety of floor surfaces, or outdoors (again SAFETY IS PARAMOUNT!)
- •Caution with shoes, carpets, throw rugs, slopes, weather, pets, toys, uneven surfaces, transitions



Yoga

- •Extremely beneficial! Works on all areas covered...and reduces stress!
- •MANY types of yoga. Something for everyone
- Flow, mat only, wheelchair, mix of poses/positions
- Can be rigorous or very light
- Try various types and instructors till you find what is best for you
- •DVDs, TV programs, MS-focused classes, NMSS sponsored classes





Tai Chi

- Works on balance, mindfulness,
 concentration, positioning of body in space
- Can be done at all levels
- Look for classes, DVDs, TV shows
- Positions can be modified
- Again, safety 1st!!!
- Cool environment



http://www.nationalmssociety.org/Living-Well-With-MS/Health-Wellness/Exercise/Adaptive-Tai-Chi





Pilates

- Large variety of Pilates exercises. Work on lengthening of muscles versus building "bulk."
- Increase in strength and flexibility are noted
- Mat exercises-strengthening, stretching, B and C
- Reformer tables-more expensive
- Look for classes, DVDs, TV shows
- Seek classes that may target persons with MS





So let's take control...

- Stay on medications that control the disease
- Symptom Management
- Exercise We can all do 1% better
- ·Be kind to yourself and hope for the future





Other beneficial areas that are NON-CARDIO:

- •Stress reduction!!!
- •Relaxation!!!
- •Mindful meditation!!!
- Activities that are FUN!!!
- ·Be social!!!







Questions/Comments



Sue Kushner PT, MS



Lynn Stazzone, RN, NP

If you are enjoying tonight's presentation, please consider donating to our programs:

Text to donate: 970-626-6232

https://www.mscando.org/get-involved





Can Do MS Resources





Can Do Library





National MS Society Resources



Stretching for People with MS



Yoga & MS
Tai Chi & MS

Exercise as Part of Everyday Life



Yoga and Tai Chi for MS



Exercise – or not – in Water



Exercise & Physical Activity with MS



Yoga Programming for People with MS

Click on these links and access more resources at national MSsociety.org

WEBINAR & TELELEARNING SERIES











Keeping an Eye on MS May 9, 2017





