

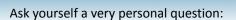


Participants will be able to:

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- o define neuroplasticity;
- list and describe the five functions of the brain;
- list at least 5 of the 21 Ageless Grace* tools and describe their primary functions.





What is your greatest concern about your health (and the health of your participants), for the rest of your life?



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Until recently, major health concerns were heart disease and cancer.

Today the greatest health concern on our planet is **losing brain function as we age...**



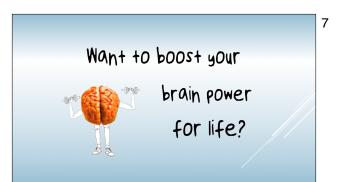




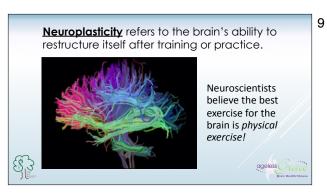
- Alzheimer's
- Dementia
- Parkinson's
- or some other form of cognitive decline.

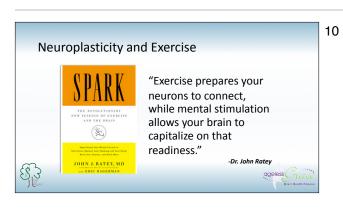






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Scientists say there IS something you can do to prevent cognitive decline	
Cognitive decime	
Neuroplasticity	
A big word that can have an even bigger impact	
on the lives of each one of you	
- and the lives of your participants.	
Stimulate NEUROPLASTICITY Opening Transform Stimulate NEUROPLASTICITY	





To paraphrase the author of **SPARK**:

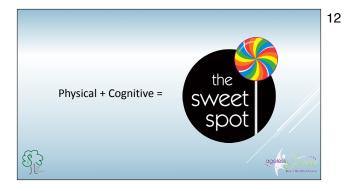
When we move around we use more brain cells.

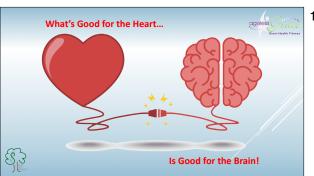
And when we use more brain calls, we cause the genes to make more of a protein found in the brain and spinal cord called BDNF (brainderived neurotrophic factor.)

BDNF promotes the survival & growth of neurons



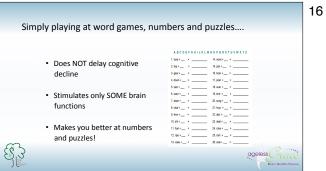






Passionate about movement & exercise all her life Congenital spinal challenges Movement medicine - The more she moves the less pain she feels The better her body and brain function TEDx Speaker - Changing Your Brain Can Be As Simple As Child's Play https://www.youtube.com/watch?v=cXTpLgtH60Y





Traditional repetitive exercise...



- Does NOT delay cognitive decline significantly
- Does NOT stimulate all functions of the brain



Consciously Choosing

Doing something in a new or different way to engage all functions of the brain...



...can directly affect the quality of the rest of your life – regardless of your age!





Pilot Study Conclusion

Studies of the effects of Ageless Grace* on physical, cognitive and emotional well being are being conducted. These studies have not been published yet, but the conclusion of a pilot study done at Harding University demonstrated significant improvements in multiple physical and cognitive domains in elderly subjects with no reports of injury and a high degree of compliance.





Primary Purpose of the Brain

- To control movement of the body
- From birth to mid-teens, you discovered how to do physical activities through trial and error
- · Walk, hop, skip, run
- Hide-and-seek,
- Yo-yo, roller skate
- Play on a team
- Ride a bicycle





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Did your Mama ask...

Why don't you go outside and fire a few neurons??



Every time you PLAYED you were firing neurons, developing neural pathways that deliver messages between your brain and body.



Five Primary Functions of the Brain

Let's use basketball to describe the five primary functions of the brain – all of which need to be stimulated through movement, ideally daily:

- to fire neurons,
- develop neural pathways and
- affect all 5 brain functions



Strategic Planning

• How your brain helps your body figure out how to get from point A to B to C -

For the good of the game, should my body organize itself to dribble, block out, pass, shoot, or toss an "alley oop" right now?





Memory and Recall

• Remembering a physical experience you've had or recalling information about that activity

If you ever swished the ball through the hoop, or saw Michael Jordan do it on TV, you remember how it feels to get a basket!





Analytical Thinking

Breaking down the parts or components of an activity

In basketball, you can shoot, dribble, pass, run, fake, rebound – or cheer from the stands!





Creativity and Imagination

 Attempting to do something physical in a new or different way; seeing an image of yourself doing this even before you try it

Practice shooting lefty instead of righty – and imagine yourself swishing the ball on the buzzer!





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Kinesthetic Learning



 Allowing your body to try something physical at first, while the brain observes what you're doing in order to make you more efficient (learning by doing)

No need to take a course in basketball, just grab a ball and jump into the game!





SMACK (crackle, pop!) • S – strategic planning • M – memory and recall • A – analytical thinking • C – creativity and imagination • K – kinesthetic learning The sounds of neurons firing!

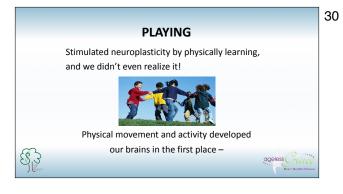
Improvement through Practice

After shooting the ball a hundred different ways, and firing thousands of neurons, you improve!

Messages began to travel quickly along neural pathways...or information highways.







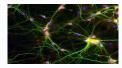
"We must learn new things in order to feel fully alive. When we learn, we alter genes in our neurons, which can change our brain."





Restore, Maintain and Develop

Affecting neural pathways – through "play" –



- Doing something we don't know how to do
- Doing something we already know how to do in a different way





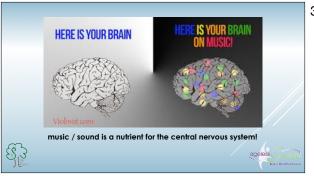


Can stimulate all 5 brain functions through physical action



• "Play" can be more fun than "working" out!





Power of Music and Movement!

EMOTIONAL RESPONSE:

- Elevates mood
- Stimulates feelings of happiness and/or sadness
- Awakens memories and/or visual imagery

PHYSICAL RESPONSE:

- Brain scans show that music activates the movement part of the brain
- Studies suggest that even if perfectly still, electrical activity is stimulated in areas of the brain important for coordinating movements
- Auditory and motor neurons are connected which is why we have the desire to move in time to the beat.







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Seated for 5 Reasons, Not Due to Age, Balance or Fragility

- 1. Causes brain to figure out how to do these exercises in a chair rather than standing
- 2. Engages core muscles
- 3. Stimulates vital organs
- 4. Activates systems and "stirs up" energy centers
- 5. Levels the playing field all can participate.









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Spelling "B" for Body

- Instead of using a pen or pencil, spell with your body (hands, elbows, knees, belly-button, back, nose, feet)
- Any language
- Any word
- Print or cursive
- Letter by letter
- Complete word
- Forward or backward







Circles, lines and triangles

- Different shapes
- Sizes
- Speeds
- Different body parts, simultaneously

Stimulates neuroplasticity by doing something you don't know how to do.



Body Math

- Tap hand and foot
- Count aloud
- Clap on random numbers
- RESPOND
- REACT
- RECOVER



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Mitigates falls, accidents, unexpected surprises



Rockin' Rocky or Rockettes

- Kick one
- Lift both
- Directions
- Cross legs/corners
- Rumble
- Karate
- Dance
- Fan or Knee Sweep







"Pretending" Causes SMACK

- Pretending to play sports, spell with your body, create shapes...causes your brain to:
- Strategize
- Use Memory and recall
- Analyze
- Be Creative and imaginative
- "Figure it out" with your body first



Activates all 5 of your primary brain functions.



Dr. Doidge Says:

Imagining an act and doing it are not as

different as they sound from a neuro-scientific point of view. Brain scans show that action and imagination "light up" many of the same parts of the brain.

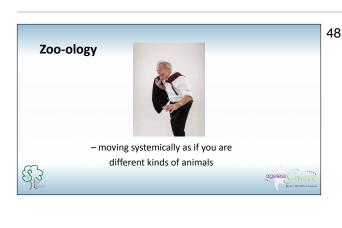












More Tools...

- Juicy Joints
- Try-Chi
- Yo-Baby
- Spaghetti Spine
- Express Yourself
- Balancing Act
- Breathe Out Loud







And More Tools...

- Saving Face
- Grab Bag
- Shake It Up Baby
- Get Down, Get Up
- Dance Party



21 Simple Tools for Lifelong Comfort and Ease™





Daily Life Choices

- Knit or sew and change hands
- Play tennis and serve on the other side
- Learn to juggle
- Drive or walk a different route
- Take up a new sport







Play a few of these simple games each day:



- Improve your brain and body skills and
- Live an ageless, graceful and happier life!



George Bernard Shaw

"We don't stop playing because we grow old; we grow old because we stop playing."



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age	eless Grace
100	Drain Health Fitness



for you and your participants

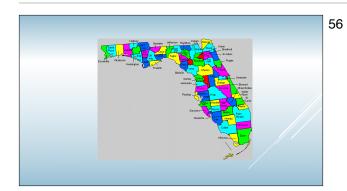
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- PLAY 10 minutes a day, every day!
- Come up with new ideas each time.
- Try something you've never done before.
- Do something you know how to do differently.

"Creative Movement Can Change Your Brain Health!"











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