The Effect of Yoga & Mindfulness on Chronic Aphasia

Marisa Perry, B.S.

Faculty Sponsor: Amanda Eaton, PhD CCC-SLP



Learner Outcomes

- 1. Describe the relationship between yoga/meditation and aphasia
- 2. List considerations for implementation of yoga/meditation for people with aphasia
- 3. Identify potential benefits of yoga/meditation for people with aphasia

Aphasia & Yoga/Mindfulness

General Population

- Reduction in age-related loss in brain volume
- Areas of increases in brain volumes:
- Posterior Cingulate
- Hippocampus
- Temporoparietal junction
- Pons
- Changes in physiological measures (e.g., heart rate/blood pressure/cortisol levels)

(Lazar et al., 2005)

Individuals with Aphasia

- Language gains (word productivity, phrase length, word generation, fluency)
- Decreased impulsivity
- Increased attentional capacity for non-language & language tasks
- Improvements in executive functioning & processing speeds
- Overall improvements in QOL and anxiety levels

(Bislick et al., 2022) (Dietz et al., 2020)

Considerations for Implementation

Chronic Aphasia & Yoga/Mindfulness in Practice

8-week yoga& meditation program

At home practice & journaling



YOGA/MINDFULNESS COMPONENTS?

SAME ROUTINE VS. DIFFERENT ROUTINE PER SESSION?

IS THE YOGA CLASS ACCESSIBLE?

HOME PRACTICE?

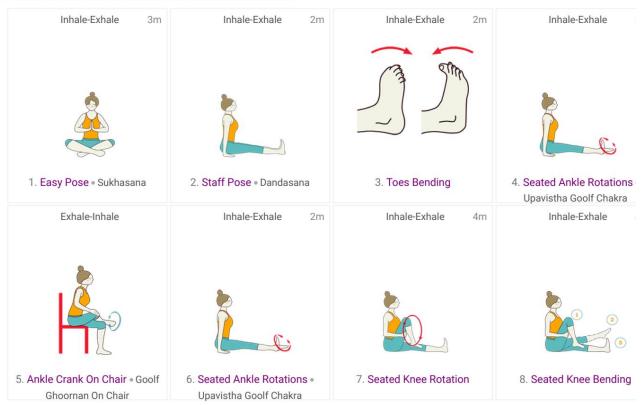
Pawanmuktasana Series 1

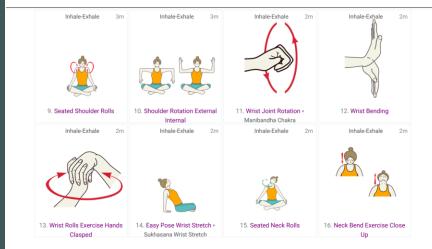
Constance Steinkamp

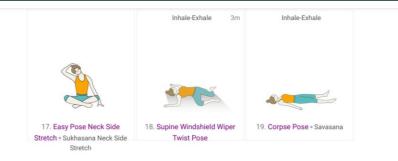
• 30 mins • Beginner • Pawanmuktasana Series 1 • Joints



Enjoy this simple at home sequence until we meet again on March 22nd!









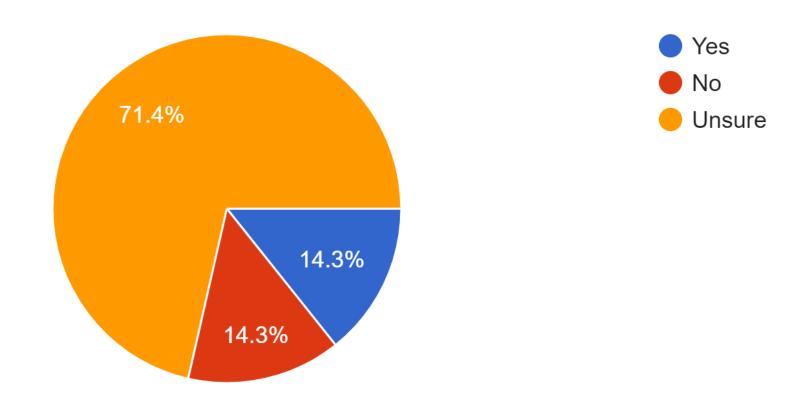


- Easy access if you already have a Netflix subscription
- Limited number of steps to access meditations
- Only 3 types of meditations to choose from

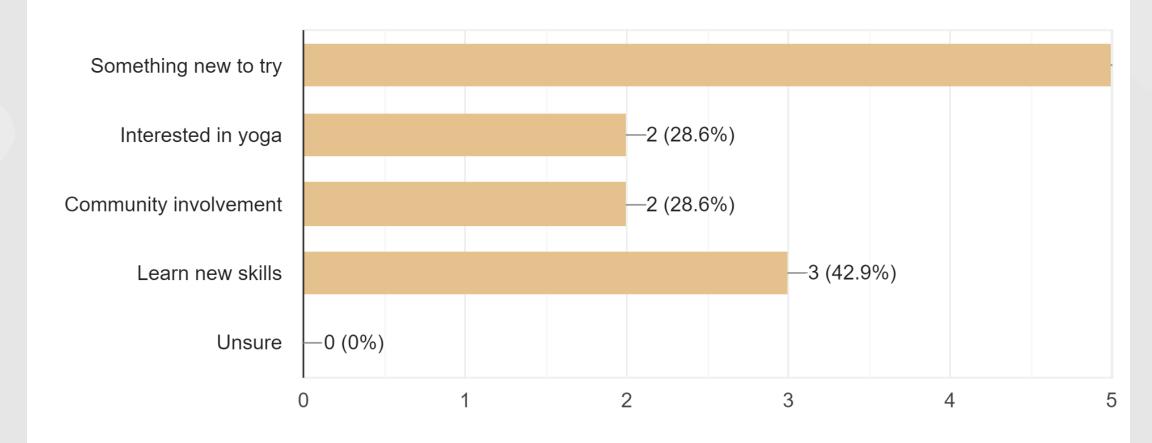
- Easiest app to navigate
- Contains an intro into mindfulness series
- Able to identify your favorites and return easily to them
- Large number of meditations based on categories (e.g., adults, families, work)
- Contains meditations in other languages

Potential Benefits of yoga/mindfulness for PWA

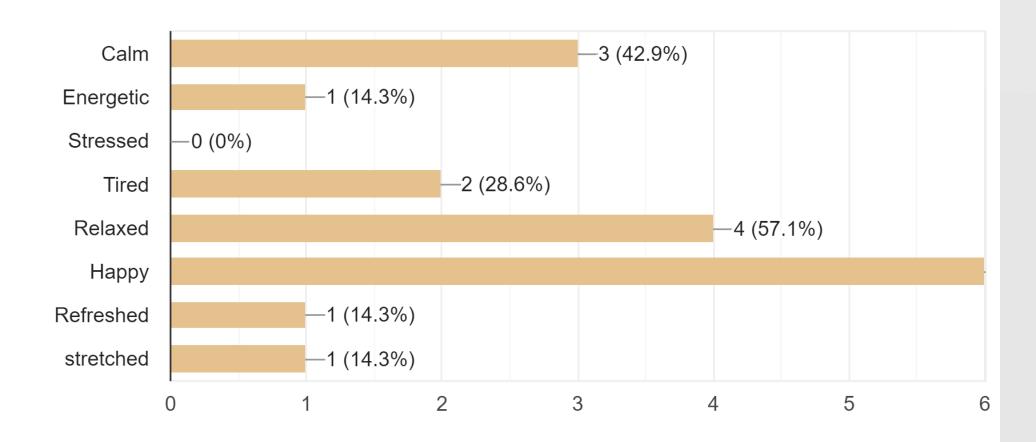
Do you feel your speech/language improved after class?



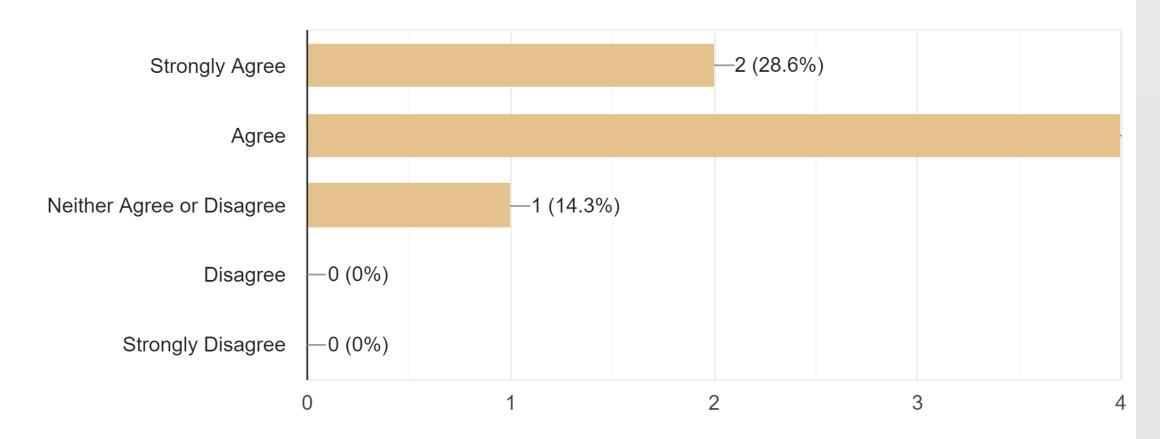
Why did you want to do aphasia yoga? Select all that apply.



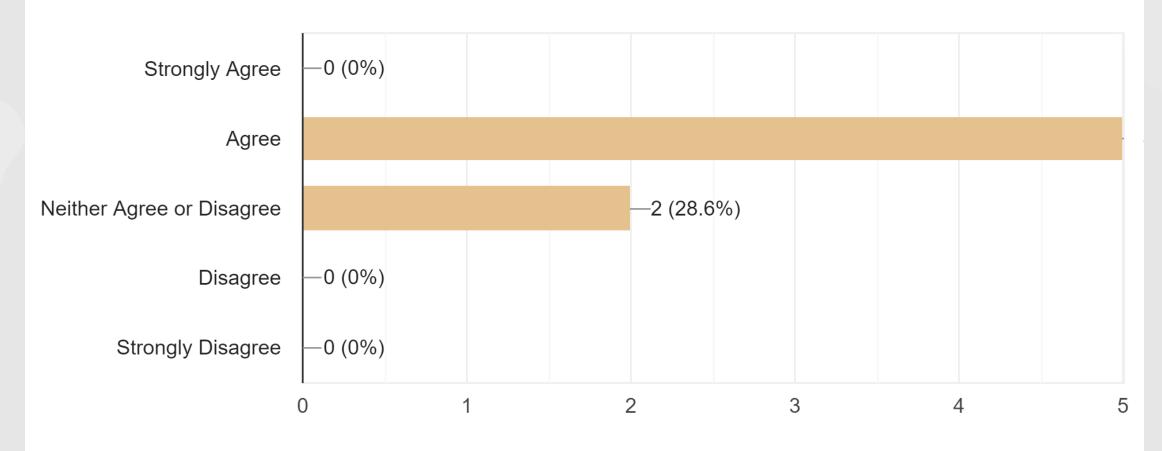
How did you feel after a yoga session. Select all that apply.

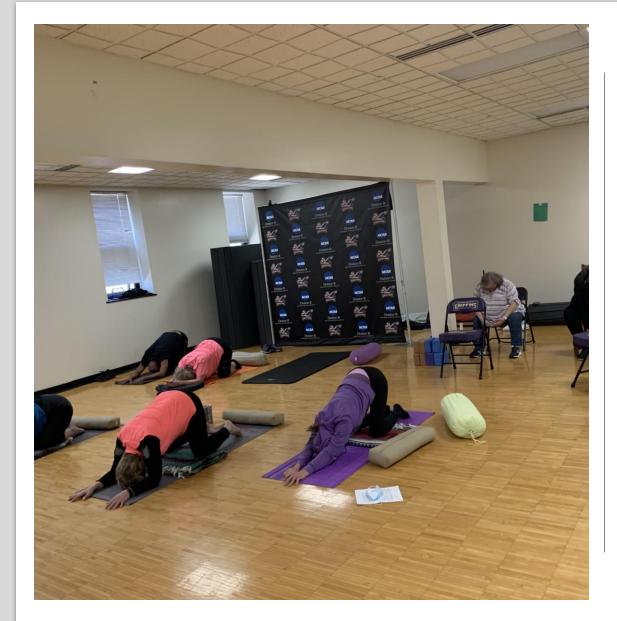


My yoga practice had a positive effect(s) on my happiness?



Yoga increased my willingness to try new things.







*All participants signed a photo release consent form

Questions



Resources

- Bislick, L., Dietz, A., Susan Duncan, E., Garza, P., Gleason, R., Greg Kersey, D. H. 6, Kersey, T., Mamlekar, C. R., McCarthy, M. J., Noe, V., Rushlow, D., Chase Rushlow, J., & Allan, S. V. (2022). Finding "Zen" in Aphasia: The Benefits of Yoga as Described by Key Stakeholders. *American Journal of Speech-Language Pathology*, 31(1), 133–147. https://doi.org/10.1044/2021 AJSLP-20-00330
- Dietz, A., Duncan, E. S., Bislick, L., Stegman, S., Collins, J., Mamlekar, C., Gleason, R., & McCarthy, M. J. (2020). Yoga as therapy for people with aphasia. *Perspectives of the ASHA Special Interest Groups*, 5(4), 853–860. https://doi.org/10.1044/2020_persp-20-00028
- Laures-Gore, J., & Marshall, R. S. (2016). Mindfulness meditation in aphasia: A case report. *NeuroRehabilitation*, *38*(4), 321–329. https://doi.org/10.3233/nre-161323
- Lazar, S. W., Kerr, C. E., Wasserman, R. H., Gray, J. R., Greve, D. N., Treadway, M. T., McGarvey, M., Quinn, B. T., Dusek, J. A., Benson, H., Rauch, S. L., Moore, C. I., & Fischl, B. (2005). Meditation experience is associated with increased cortical thickness. *Neuroreport*, *16*(17), 1893–1897. https://doi.org/10.1097/01.wnr.0000186598.66243.19
- Pieri, M., Foote, H., Grealy, M. A., Lawrence, M., Lowit, A., & Pearl, G. (2022). Mind-body and creative arts therapies for people with aphasia: A mixed-method systematic review. *Aphasiology*, *37*(3), 504–562. https://doi.org/10.1080/02687038.2022.2031862
- Rice, A. (2022, January 4). *Trauma-informed yoga: How it heals, benefits, and poses to try*. Psych Central. Retrieved March 22, 2023, from https://psychcentral.com/health/what-is-trauma-informed-yoga#definition
- Westendorf, S. (2021, January 6). *Meditation for aphasia: Can it help? evidence and apps.* Tactus Therapy. Retrieved March 22, 2023, from https://tactustherapy.com/meditation-for-aphasia/