

Anomia Treatment

Most individuals with stroke-induced and progressive aphasia experience word-finding difficulty (anomia).¹

Efficacy of Word Naming Training:

- Word-naming training can improve language outcomes^{2,3}
- Research suggests benefit for increased frequency and functional relevance of treatment⁴

Goal of Anomia Treatment:

- Restore access to functional, personally relevant words
- Prolong language function through word-naming practice⁵

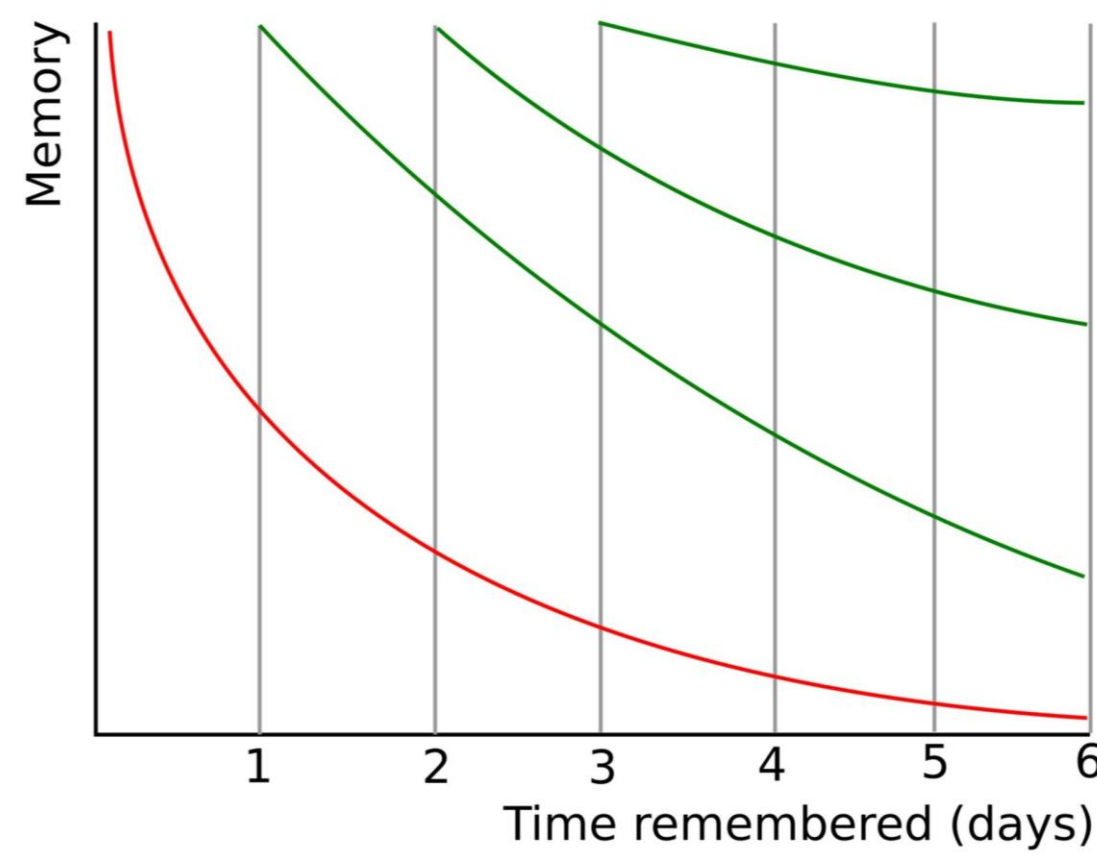
- Speech-language therapy is the standard care for retraining or preserving language functioning in aphasia
- Direct treatment time is often limited due to health insurance and logistical factors
- Crucial to have home-based strategy to maintain language skills

Spaced Retrieval Training

Space retrieval training may be used as a *home practice and retention strategy* to preserve the benefits of intensive word retraining.

Spacing Effect⁶:

- Without review, memory retention drops quickly after learning (red line)
- Regular, spaced reviews help slow down this forgetting process (green lines)



Spaced Retrieval Training (SRT):

- Evidence-based memory enhancement technique^{1,7,8}
- Recall information at increasing intervals
 - **Adaptive Recall:** Correctly recalled words are revisited less often, while difficult words are presented more frequently, optimizing recall efficiency
- Immediate feedback is provided on recall accuracy, strengthening retention over time

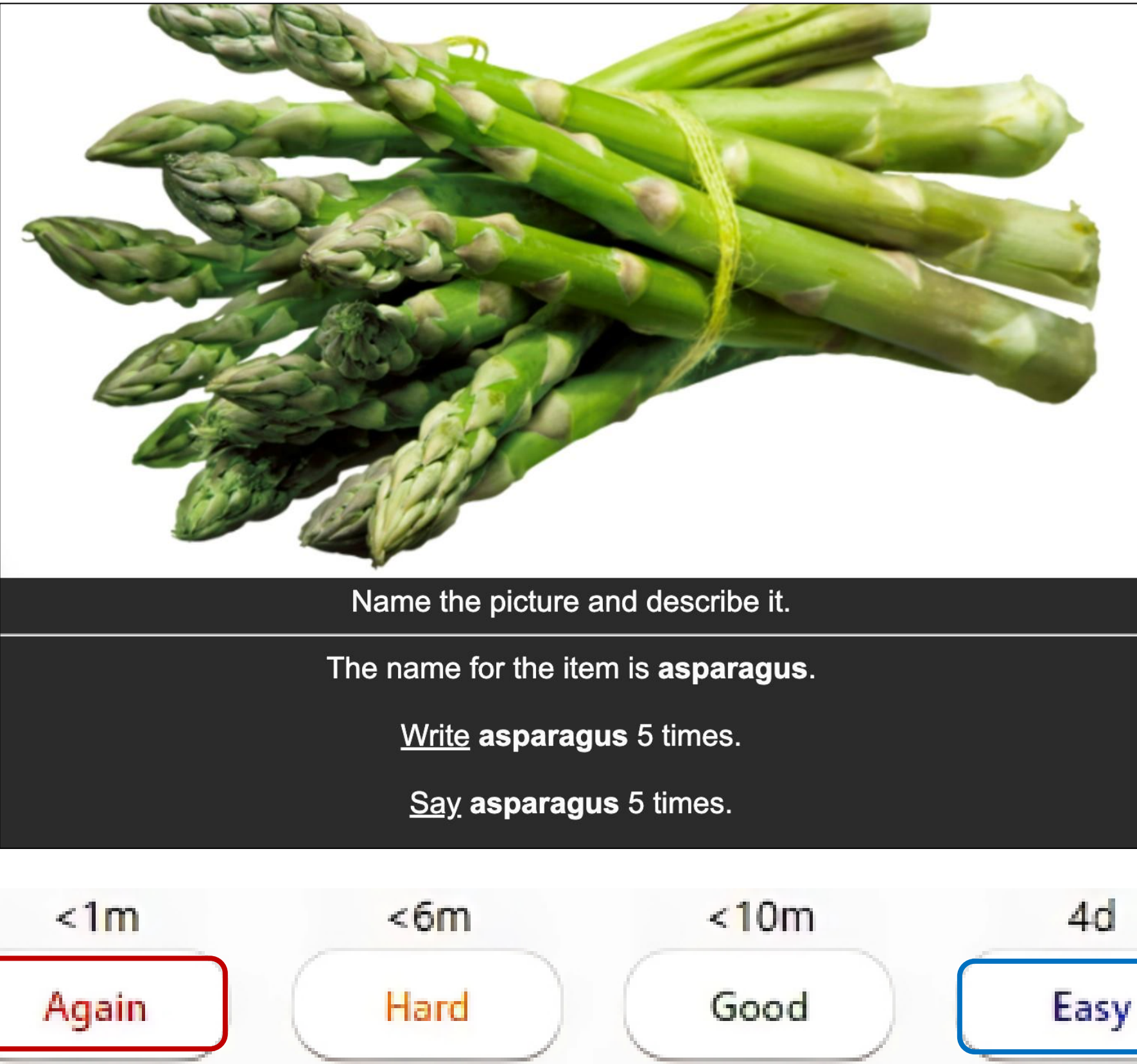
Theoretical Basis:

- SRT may target procedural memory, which is relatively spared in dementia and aphasia, improving recall behaviors, like using memory aids^{7,9}, or functional everyday activities¹⁰

Using Anki

Anki is a *free, highly customizable*, digital and adaptive version of spaced retrieval training.

Create *personalized digital flashcards* with text, images, video, and audio files



Anki selects and sequences flashcards based on difficulty ratings from the previous sessions

Select **Again** for forgotten information → **quicker** review (e.g., 1 min)

Select **Easy** for instant recalls → **postpones** review (e.g., 4 days)

Study sessions are *optimized and personalized* by targeting individual recall challenges to enhance the learning process and maximize retention.

Tell us what you think!
How would you use Anki?



Support for Anki

Why Anki?

- *Free, highly customizable* and supports large sets of personally relevant words
- Supports personalized lexicons and pictures
- Adaptable to user performance to enhance treatment outcomes
- No cap on the number of targets trained

Research demonstrates:

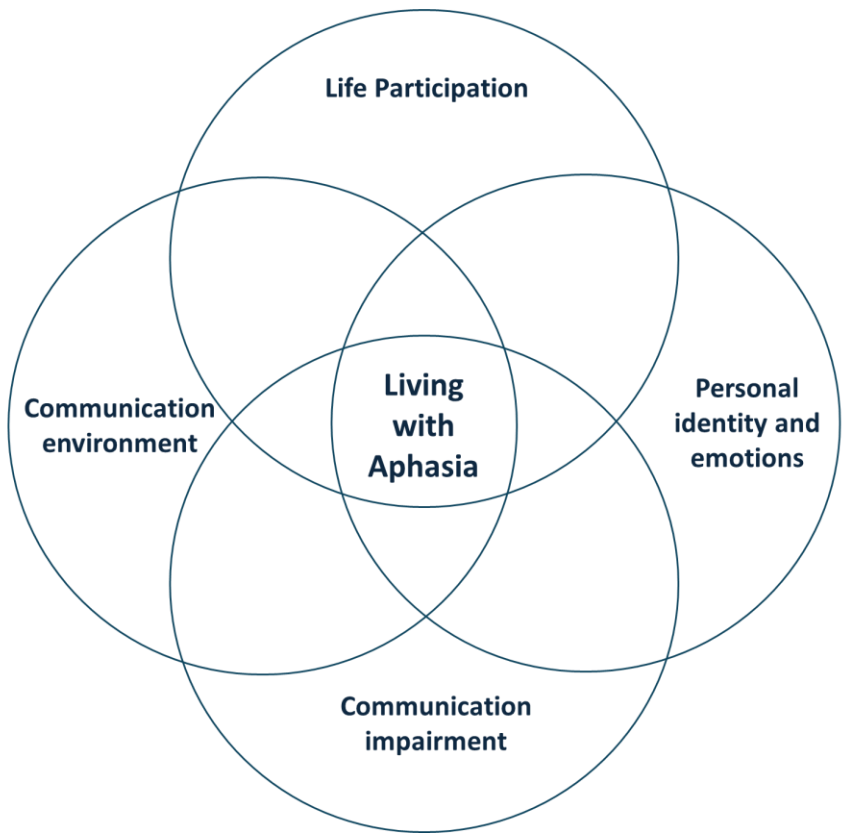
- Anki may *facilitate word relearning and retention* of personalized core vocabulary in individuals with anomia^{8,11}
- Anki's approach has potential to improve anomia treatment outcomes with reduced clinician intervention through a *self-administered, home-based program*

Enhancing Life Participation

Anki supports personalized language relearning to enhance meaningful participation in everyday life.

Aligns with the principles of the Life Participation Approach to Aphasia (LPAA)¹²

- empowers individuals to take control of their own rehabilitation
- emphasizes personal relevance and functional outcomes



Core Values of LPAA¹²

Application of Anki

1. Enhance life participation.

- Create custom flashcards to target words needed to participate in life activities important for the user

2. Target personal and environmental factors.

- Use images of personal items or environments within flashcards
- Engage communication partners to assist with practice sessions

3. Measure success by life enhancement.

- Adaptive algorithm adjusts review schedule based on users ratings of their own successes

4. Everyone with aphasia is entitled to service.

- Free, open-source application
- Use multiple modalities including images, text, audio and video to increase accessibility

5. Make services available at all stages of aphasia.

- Tailor and modify prompts and cues as language abilities of user change
- Self-directed, home-based practice encourages maintenance of skills and ongoing word retraining

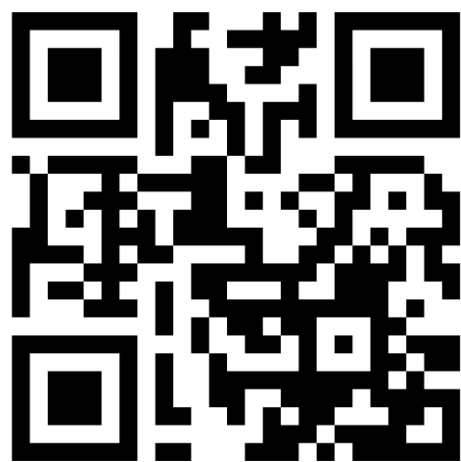
Find out more!



References



<https://youtu.be/nJRjQ2HXEPI>



<https://apps.ankiweb.net/>



<https://shorturl.at/vO6Us>