



Review studies of rehabilitation outcomes in individuals with chronic aphasia report that therapy is indeed effective for these individuals

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• More intense therapy for patients results in greater outcomes in acute and chronic aphasic patients

• ICAP aphasia

Perud. C. Wornist. L. & Katapados, E. (2013). Reliable cities analysis of automate from two intensive aphasic patients. To shake Revolution, 20(3), 348-37, acid, 1301/14003-348

• Very early aphasia frampy in acute aphasia

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• Systematic review of constrained induced aphasia therapy

• Onemay LR, Intenson JP, Royma A. Hymnott. Schooling L. Britane-bound aphasia therapy

• Onemay LR, Patteron JP, Royma A. Hymnott. Schooling L. Britane-bound aphasia therapy

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• Systematic review of aphasia therapy shades

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A recent influential study (ACTNOW) suggested that rehabilitation was no more effective in promoting change on the measured outcomes than everyday communication with hospital volunteers in acute stroke survivors

A best-practice, flexible intervention by NHS SL therapists, up to three contacts per week for up to 16 weeks compared with a similar number of AC contacts by employed visitors

There was no evidence, on any measure, of added benefit of early communication therapy beyond that from AC.

Functional communication improved for both groups

Rowen, A., Hestelin, A., Patchick, E., Yong, A., Dovies, L., Vall, A., ..., Tymell, P. (2012). Cinical effectiveness and service user's parception of early veil-teround communication heapy following a strake: anadomized controlled trial (the ACT Now Study). Headth technology assessment. 18(2), 1-180. doi:10.3110/intel.1820

A Cochrane review of randomized control trials in aphasia have been less favorable. Some promising evidence but not strong outcomes.

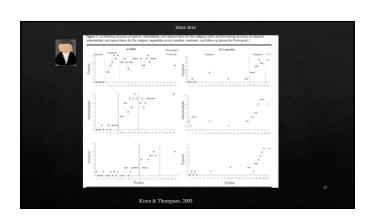
Rody, M. C., Selly, H., Godwi, J., & Bostoy, P. (2012). Speech and longuage Every for aphasis following stoke. The Coctional database of systematic reviews, 5.

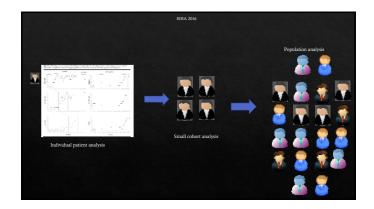
Question #1: What do you think about the effectiveness of aphasia rehabilitation

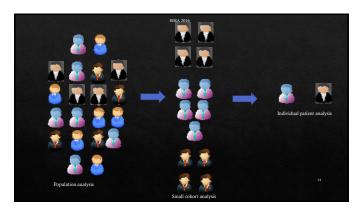
Always effective

Mostly effective but depends on intensity

May be effective with intense therapy







Using technology to improve treatment delivery

Main advantage is to provide therapy to people who cannot travel to obtain rehabilitation services.

Speech language pathology services are particularly suited to telerehabilitation due to the emphasis on auditory/visual interaction

Thus far, videoconferencing services between client and clinician for audiology, stuttering, and motor speech have been reported (Georgeadis et al., 2004; Hill et al., 2004)

Several centers set up for providing aphasia therapy over the internet (City University, London, University of North Carolina, Greensboro).

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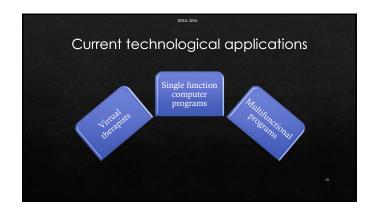
"The role of the clinician will then shift to one of an advisor and orchestrator of the rehabilitation process.
 Based on careful diagnostics at all three levels of aphasia rehabilitation, the clinician can choose which treatment approach is needed and offer relevant treatment programs that enable the client to work on his or her own rehabilitation, independently and at his or her own pace."

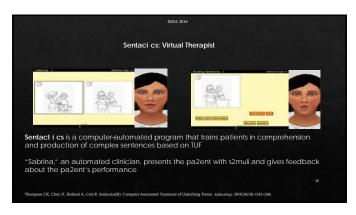
Mikele Evanus straightful and the late of computer technology. Can we keep up with modern times? <u>International Journal of September 1</u> (1998) 229.

Question #2: What are the advantages and disadvantages of technological applications in aphasia therapy

Advantages??

Disadvantages?







Computerized Brain Rehabilitation Software

Multicue software

Mokes different types of cues (semantic, phonemic, general information) available to patients as they practice word retrieval. Results from 18 patients with aphasis who received Multicue therapist improved on the Boston Naming Test (BNT), but the changes were not significant when compared with the control group. A similar

Doubloght wan de traditionatemon M, Dasell v. on haven per Southfeld F. Vica-lifes E. Cues on request: the efficacy of Multicue a computer program for wordfring therapy, Aphasiacy, 2004(18):2/13-222. Varmout M. Vardannikoendeman w.W.E. Austicue. Aphasiacy, 19724(9):179-183.

MossTalk

Also provides patient initiated cues during word retrieval. This program was shown to be effective in increasing patients' comprehension and lessening word retrieval deficits in aphasic individuals and those who had semantic dementia.

Fire 88. Revin A-Sharptar M, Bobs NA. A comparengemented actional for increasing deficient of effective distribution. Aphasical Comprehension and Particular School School

Computerized Brain Rehabilitation Software

• StepByStep

• Palmer et al found the 15 patients assigned to a computer treatment group showed more improvement on their naming ability than did 13 patients who practiced everyday language activities, including conversation and support groups and reading and writing activities.

**Return Brauns P. Cooper C. did Computer therapy composed with usual cose for papages without groups and patients as plat modernade contributed trail. Strake.

**Bituctured language therapy to 50 patients in community settings showed improvements on standardized tests such as the WAB and CEII.

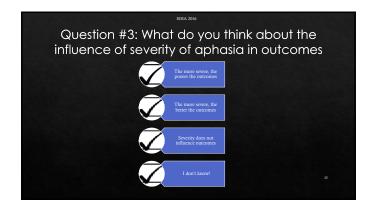
**Affordment L. B. Appallacum, J. S. & Breeke, R. D. (1999), improving automes for persons with aptracts in advanced community-based treatment programs. Strake, 30(7), 1375-1279.

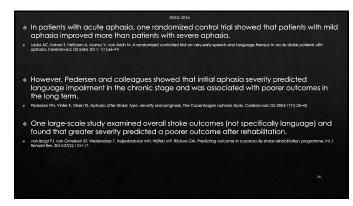
Constant Therapy

**Standardized and individualized treatment for 51 patients using the software showed significant changes on WAB, CLQT, BNT etc.

**Dass Boards CA, Balachandan, J. Acansa EM, Tapods 1, 1747 S. Effectiveness of an impairment-based individualized rehabilitation program using 8h iPadbased software platform, Fiorities in Human Neuroscience, 2015.8.







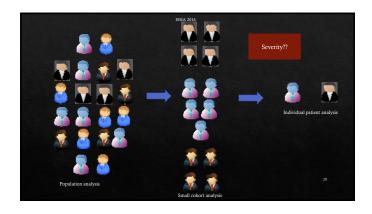
However, another study showed that at even severe patients with aphasia benefited from very early language therapy.

Godecke E. Hid K. Lake E. Rat I., Phillip J. KR. Yery early post these aphasia history, a plot randomized controlled efficiacy trail. Int J. Strate. 2012;18(353-444)

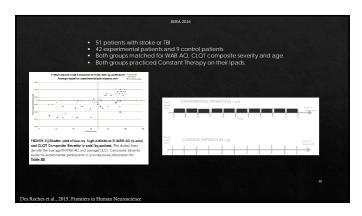
In a meta-analysis, Robey showed that acute patients with severe aphasia show substantial gains after freatment but chronic patients with moderate and severe aphasia also show substantial gains after rehabilitation.

Robey R. A neb-analysis of clinical automes in the treatment of aphasia. Journal of Speech, Language and Heating Research. 1998;41(1):172-187.

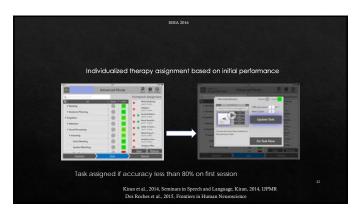
In chronic aphasia, Persad and colleagues reviewed outcomes from rehabilitation centers that provide intensive comprehensive aphasia freatment and found both mild and severe chronic patients with aphasia to benefit from such treatment. Parad C., Warriak L. Kratapoolde E. Retappective analysis of outcomes from two intensive comprehensive aphasia program. Tapica in Strate Rehabilitation, 2012(0)(388-397).

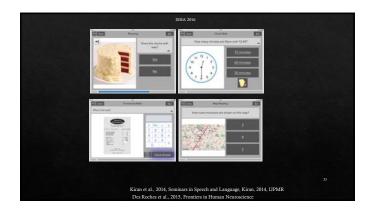


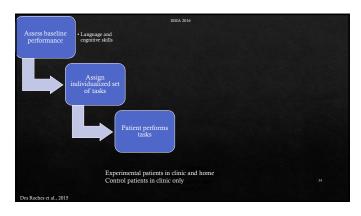


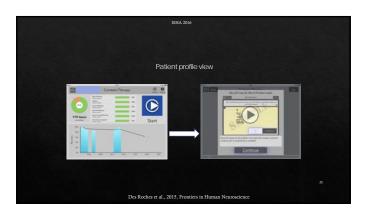


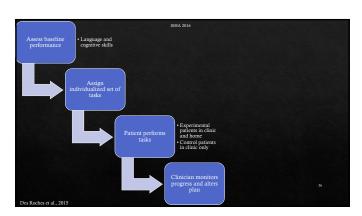


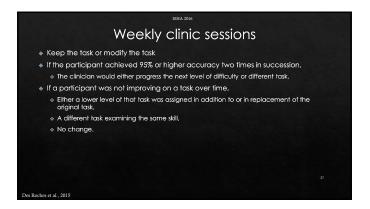


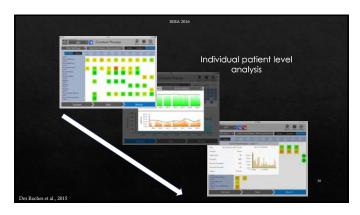


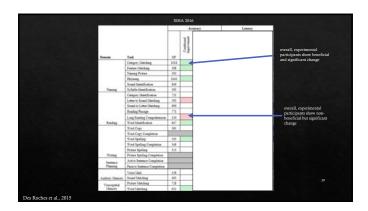


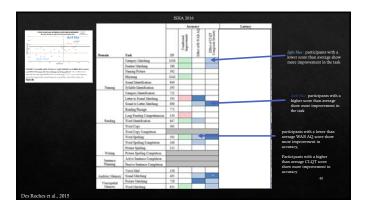








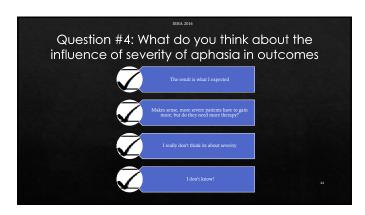


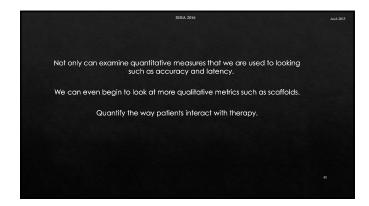


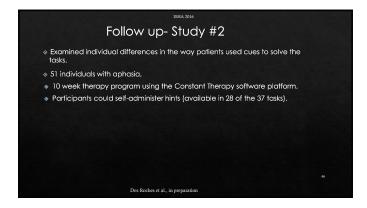
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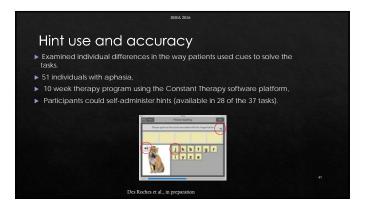
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Market Street	2.15 (t = 2.16, p < 05)	LD(=)
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6.0% Electron	10.9 % (i = -1.93, µ < 05)	Miles
6.05 thur	Wildel	L15(c)
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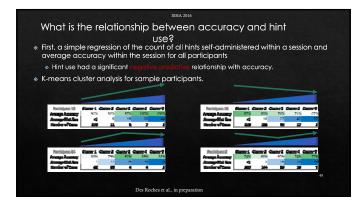


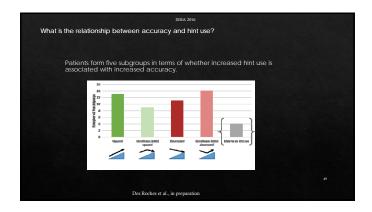


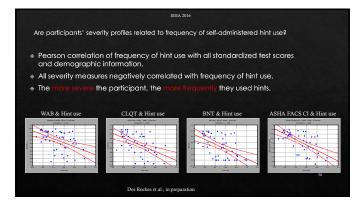


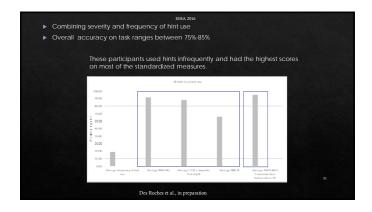


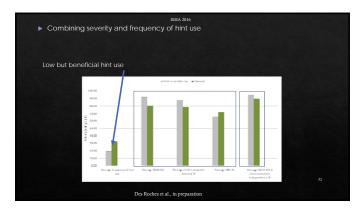


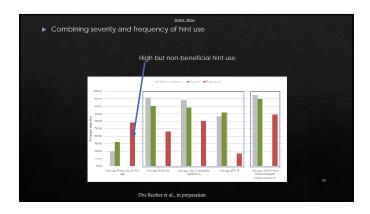


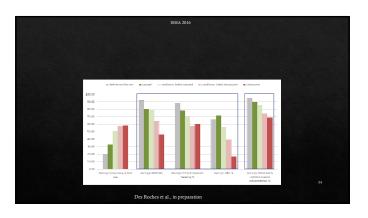


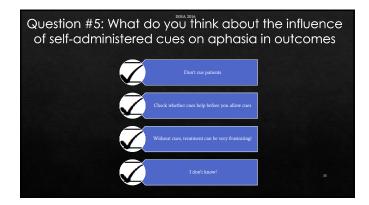


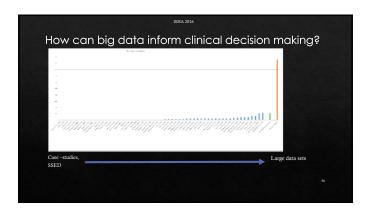


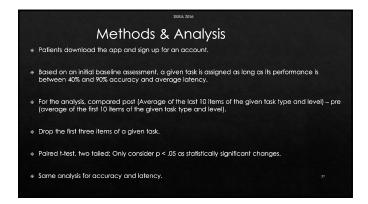


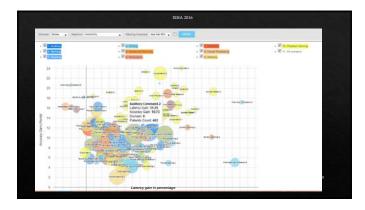




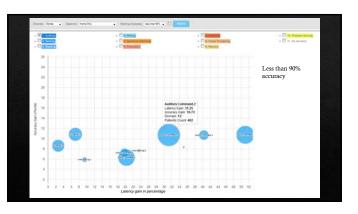


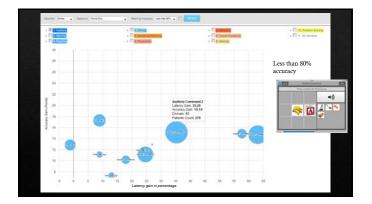


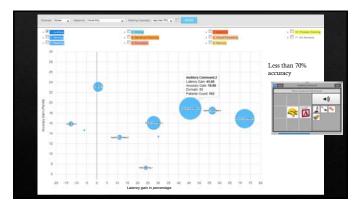


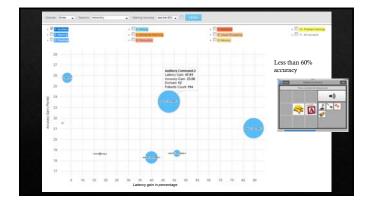


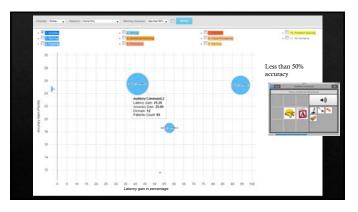


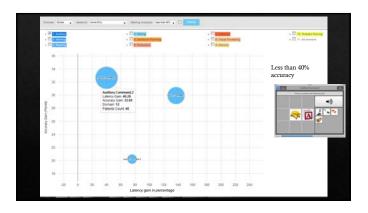


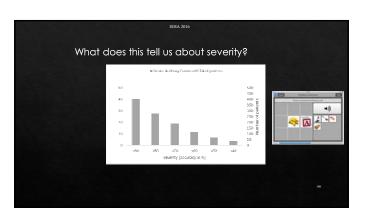


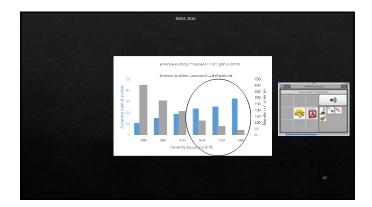


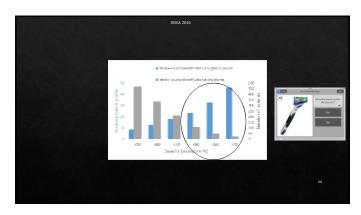


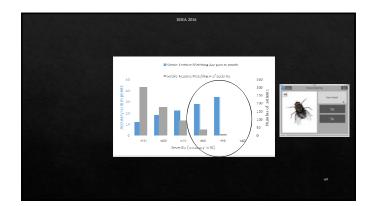














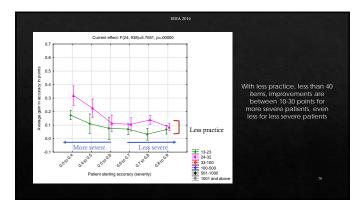


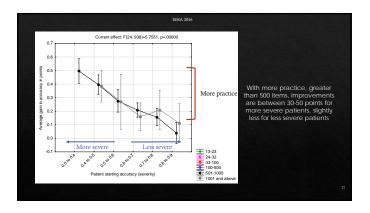


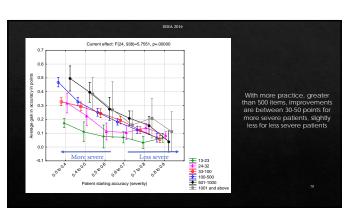


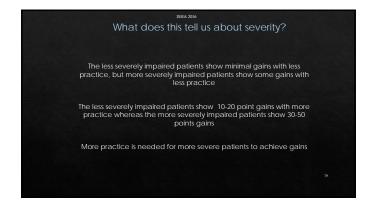


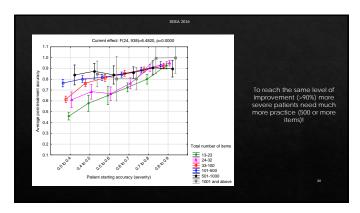




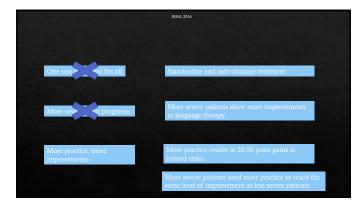












So what does this mean clinically?

The more we understand about population data, the more we can individualize patient treatment

Source approach results, an individualized, evidence-based-practice approach results in significant patient gains

How could data like this change your clinical decision making?

Development of technology = more data and more scientific clinical decisions

