

A pilot-study into the effectiveness of therapeutic app SimpTell for speakers with aphasia

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In chronically agrammatic speakers of Dutch, SimpTell leads to an enhancement of elliptical style which in turn improves verbal functional communication, specifically verbal efficiency.

Ethische beoordeling	Niet van toepassing
Status	Werving gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON25274

Bron

NTR

Verkorte titel

SimpTell

Aandoening

Aphasia

Ondersteuning

Primaire sponsor: Centre for Language Studies (CLS), Radboud University, Nijmegen (The Netherlands)

Overige ondersteuning: Centre for Language Studies (CLS), Radboud University, Nijmegen (The Netherlands)

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

- 1) Quantitative measure of verbal effectiveness (Ruiter, Kolk, Rietveld, Dijkstra & Lotgering, 2011), based on experimentally adapted scenarios of the ANELT (Blomert, Koster & Kean, 1995) and Picture Description Task (2008)
- 2) Quantitative measure of verbal efficiency (Ruiter, Kolk, Rietveld, Dijkstra & Lotgering, 2011), based on experimentally adapted scenarios of the ANELT (Blomert, Koster & Kean, 1995) and Picture Description Task (2008)

Toelichting onderzoek

Achtergrond van het onderzoek

The aim of the pilot study is to examine the effectiveness of therapeutic application called SimpTell (Language in Interaction Consortium, 2018). SimpTell is an acronym for Semi-independent Interactive Multimodal Production Training of ELLipses (in Broca's aphasia). The app supports speech and language therapists (SLTs) in teaching Dutch speaking persons with chronic Broca's aphasia to produce reduced utterances (i.e., ellipses) to compensate for their sentence production difficulties. Ellipses resemble telegraphic style (e.g., Stroke last year. Speaking difficult. Producing short sentences only). The study thus seeks to answer the question whether SimpTell enables chronically agrammatic speakers of Dutch to use elliptical constructions more frequently and whether this brings about an increase in verbal functional communication.

Doel van het onderzoek

In chronically agrammatic speakers of Dutch, SimpTell leads to an enhancement of elliptical style which in turn improves verbal functional communication, specifically verbal efficiency.

Onderzoeksopzet

two, with a time interval of 6 weeks

Onderzoeksproduct en/of interventie

According to a treatment protocol, SimpTell will be administered for a period of 6 weeks (30 hours in total) either as:

- (1) blended care (parallel in-person speech and language therapy)
- 2) Teletherapy (no parallel in-person speech and language therapy)

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

- Age between 16 and 75 years old
- Unilateral left hemispheric stroke
- At least 6 months post-onset (chronic stage)
- Disordered sentence production (expressive agrammatism) due to aphasia. On the 6-point scale of the subtest Spontaneous Speech of the Dutch version of the Aachen Aphasia Test (AAT; Graetz, De Bleser, & Willmes, 1992), the syntactic structure of the participant's speech output should be rated as 1 (mostly one or two word utterances; almost no inflection forms or function words) or 2 (short, simple sentences, which are mostly syntactically incomplete; frequent absence of function words and inflected forms).
- Native speaker of Dutch
- Pre-morbidly right handed
- The participant should approve the proposed aim, which is promoting the overuse of ellipses (telegraphic style)

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

- A history of previous stroke
- Aphasia caused by tumor or trauma
- Severe aphasia (unable to understand instructions or provide consent). This is operationalised via score on either (1) the Dutch Comprehensive Aphasia Test (CAT-NL; Visch-Brink, Vandenborre, De Smet & Marien, 2014) OR (2) the Dutch version of the Aachen Aphasia Test (AAT; Graetz, De Bleser, & Willmes, 1992). (1) CAT-NL: Subtest 9

[Comprehension of spoken sentences]: a score of 18 (out of 32) or below, and Subtest 10 [Comprehension of written sentences]: a score of 14 (out of 32) or below. (2) AAT: Subtest TB 1&2 [Comprehension of spoken language]: a score of 33 (out of 60) or below, and Subtest TB 3&4 [Comprehension of written language]: a score of 30 (out of 60) or below,

- (Even with visual aid) profound visual perceptual disorders;
- (Even with hearing aid) profound hearing deficit;
- Psychiatric or neurological disorders (other than stroke)
- Severe apraxia of speech or severe dysarthria (criterion: more than 5% unintelligible speech output).

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Parallel
Toewijzing:	N.v.t. / één studie arm
Blinding:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland	
Status:	Werving gestart
(Verwachte) startdatum:	05-07-2019
Aantal proefpersonen:	10
Type:	Verwachte startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Nog niet bepaald

Ethische beoordeling

Niet van toepassing	
Soort:	Niet van toepassing

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL7855
Ander register	Ethics Assessment Committee of the Faculty of Arts and the Faculty of Philosophy, Theology and Religious Studies (EACH) , Radboud University, Nijmegen [This study was exempt from formal medical-ethical approval (number 2019-5507, CMO Radboudumc Nijmegen)]. : ETC-GW 2019-8305

Resultaten