AAN.COM (HTTPS://WWW.AAN.COM)

AAN PUBLICATIONS

Advertisement



SHARE



April 18, 2017; 88 (16 Supplement) APRIL 26, 2017

Info & Disclosures

## Overrepresentation of isolated verbal repetition deficits in aphasic males with stroke: A systematic literature review and meta-analysis (P4.211)

Lucía Pertierra, María José Torres Prioris, María Guadalupe Dávila, Ricardo Allegri, Marcelo Berthier Torres First published April 17. 2017.

66 CITATION	₽ PERMISSIONS
	■ SEE COMMENTS
Check for updates	Downloads [ 0

Abstract

Article

**Objective:** To ascertain whether gender dimorphism in language networks correlates with aphasia phenotype and recovery. If so, men with aphasia would be more likely to have persistent repetition impairments than women, and chronic conduction aphasia (CA) might be more prevalent in men than in women.

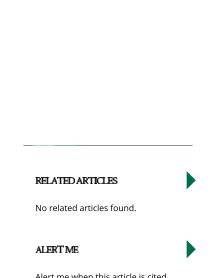
**Background:** The arcuate fasciculus (AF) is a key component of the language network involved in verbal repetition. Strong left lateralization of the AF is more frequent in men ( $\square 85\%$ ), while mild lateralization or symmetrical bilateral representation ( $\square 60\%$ ) is more prevalent among females.

**Design/Methods:** Systematic review and meta-analysis of published cases of CA and transcortical aphasia (TA). Inclusion criteria: first single unilateral cerebrovascular event; age  $\geq$  18 years old; no prior history of neurological or psychiatric disease, nor any other general medical condition that could impair language. The male:female proportion CA and TA was calculated from the database, and compared with male:female proportion in stroke prevalence.

**Results:** Two hundred fifty three publications were included, gathering 799 cases of CA and TA. Males accounted for 74% (n=375) of CA subjects (n=507), while among TA (n=249, mixed TA excluded) men represented 62% (n=154) of subjects. Compared with 59% of male prevalence in stroke, men were overrepresented among CA (p<0.0001, 95% CI 68.91 to 76.82) while not in the control group (TA with exclusion of mixed TA, p=0.2848, 95% CI 55.50 to 67.91).

**Conclusions:** Chronic isolated repetition deficits are more prevalent in men than in women. This finding is clinically relevant because of repetition's role in language acquisition and recovery, being a main mechanism by which children learn to speak and a major resource in language rehabilitation techniques.

**Disclosure:** Dr. Pertierra has nothing to disclose. Dr. Torres Prioris has nothing to disclose. Dr. Dávila has nothing to disclose. Dr. Allegri has nothing to disclose. Dr. Berthier has received personal compensation for activities with Pfizer/Eisai, Merz, Lundbeck, GlaxoSmithKline, Eli Lilly, Novartis



Advertisement

Article

Info & Disclosures

Alert me when this article is cited

Alert me if a correction is posted

Alert me when eletters are published

and Janssen-Cilag as a consultant, member of an advisory board, and as a speaker. Dr. Berthier has received research support from Lundbeck and Ministerio de Educación y Ciencia, Spain(SEJ 2007-

## Disputes & Debates: Rapid online correspondence

No comments have been published for this article.



## YOUMAY ALSO BE INTERESTED IN

ARTICLE

Brain networks' functional connectivity separates aphasic deficits in stroke

Antonello Baldassarre, Nicholas V. Metcalf, Gordon L. Shulman, et al.

December 05, 2018

SATURDAY, APRIL 25

Investigation of S-Nitrosoglutathione in Stroke: A Systematic Review and Meta-

Analysis of Literature in Pre-clinical and Clinical Research (4102)

Shimeng Liu, Haiqing Zheng, Wengui Yu, et al.

April 14, 2020

SUNDAY, APRIL 26

The Reinstitution of Anticoagulation After Intracerebral Bleeding - A Metaanalysis and Literature Review (4523)

Salman Assad, Justin Nolte, Samrina Hanif, et al.

April 14, 2020

TUESDAY, APRIL 28

Frequency and Predictors of Occult Cancer in Ischemic Stroke: A Systematic

Review and Meta-Analysis (579)

Bastien Rioux, Lahoud Touma, Ahmad Nehme, et al.

April 14, 2020

ARTICLE

Anatomical evidence of an indirect pathway for word repetition

Stephanie J. Forkel, Emily Rogalski, Niki Drossinos Sancho, et al.

January 29, 2020

▲ Back to top



Articles	About	Submit	Subscribers
Ahead of Print	About the Journals	Author Center	Subscribe
Current Issue	Ethics Policies	Submit a Manuscript	Activate a Subscription
Past Issues	Editors & Editorial Board	Information for Reviewers	Sign up for eAlerts
Popular Articles	Contact Us	AAN Guidelines	RSS Feed
Translations	Advertise	Permissions	







Neurology

Neurology: Clinical Practice

Neurology: Genetics

Neurology: Neuroimmunology & Neuroinflammation

AAN.com AANnews Continuum Brain & Life Neurology Today



Neurology | Print ISSN:0028-3878 Online ISSN:1526-632X

© 2020 American Academy of Neurology Privacy Policy Feedback Advertise