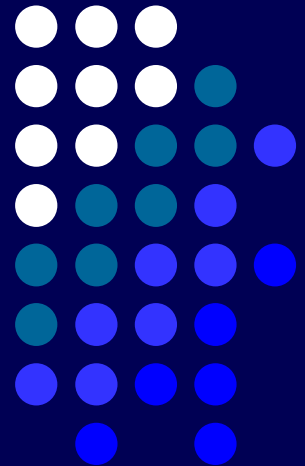




Sémantický variant PPA - pohľad logopéda

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2021



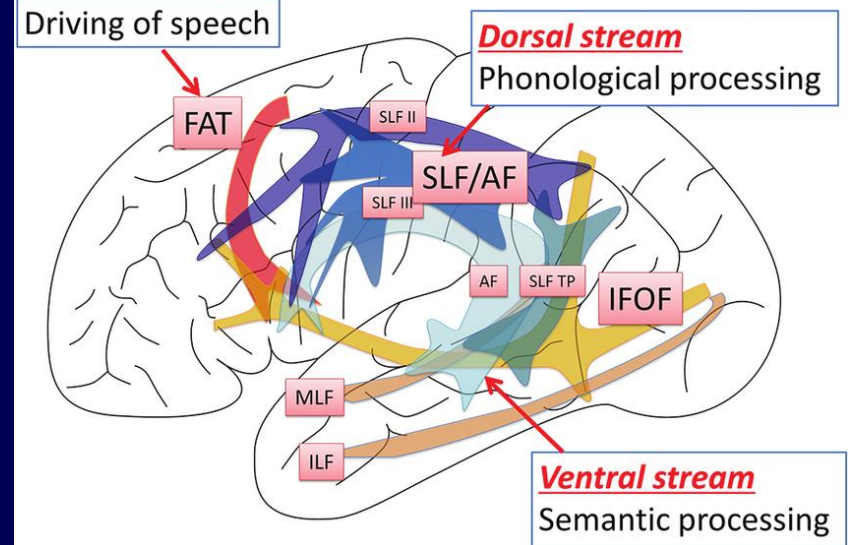
Primary progressive aphasia

A dementia of the language network

Marsel Mesulam

ABSTRACT. Primary progressive aphasia (PPA) is a clinical syndrome diagnosed when three core criteria are met. First, there should be a language impairment (i.e., aphasia) that interferes with the usage or comprehension of words. Second, the neurological work-up should determine that the disease is neurodegenerative, and therefore progressive. Third, the aphasia should arise in relative isolation, without equivalent deficits of comportment or episodic memory. The language impairment can be fluent or non-fluent and may or may not interfere with word comprehension. Memory for recent events is preserved although memory scores obtained in verbally mediated tests may be abnormal. Minor changes in personality and behavior may be present but are not the leading factors that bring the patient to medical attention or that limit daily living activities. This distinctive clinical pattern is most conspicuous in the initial stages of the disease, and reflects a relatively selective atrophy of the language network, usually located in the left hemisphere. There are different clinical variants of PPA, each with a characteristic pattern of atrophy. The underlying neuropathological diseases are heterogeneous and can include Alzheimer's disease as well as frontotemporal lobar degeneration. The clinician's task is to recognize PPA and differentiate it from other neurodegenerative phenotypes, use biomarkers to surmise the nature of the underlying neuropathology, and institute the most fitting multimodal interventions.

Key words: dementia, language, network, frontotemporal, progranulin, tau.

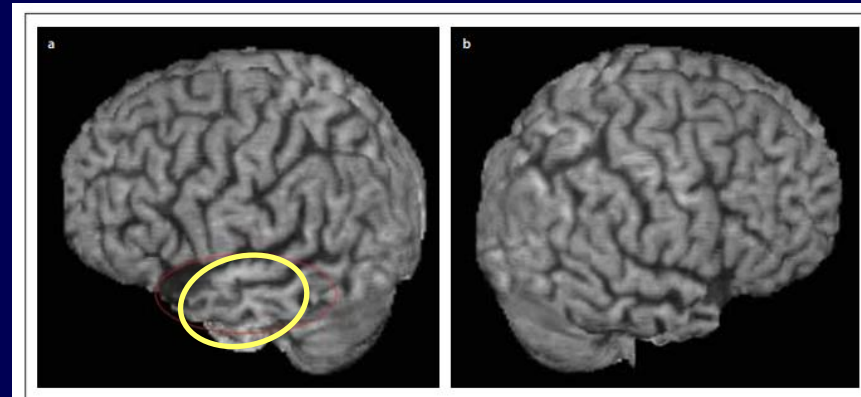


Neurodegeneration that primarily targets the left-hemisphere language network

Different clinical subtypes or phenotypes can be identified reflecting the distribution of the neuropathological process within the language network

Sémantický variant PPA

(Gorno-Tempini et al., 2011)



Klinická diagnóza

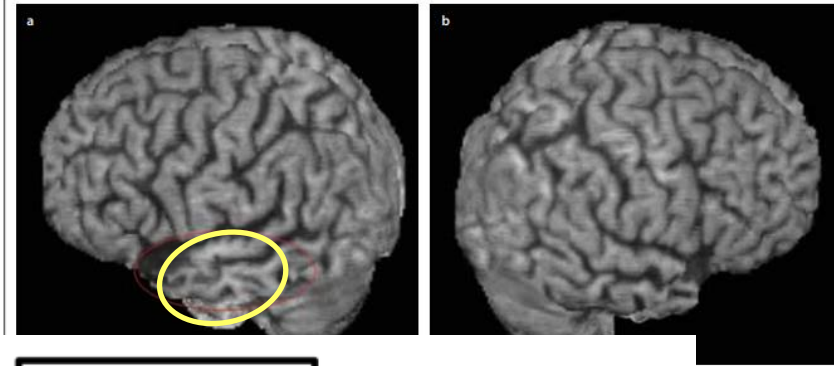
- (1) porucha konfrontačného pomenovania
- (2) porucha porozumenia slovám

+ aspoň 3 zo štyroch nasledovných symptómov

- (1) povrchová alexia, agrafia
- (2) nenarušené opakovanie
- (3) nenarušená produkcia (gramatika, praxia)
- (4) narušená znalosť objektov (object semantics)

Sémantický variant PPA

(Gorno-Tempini et al., 2011)



Klinická

(1) poru

(2) poru

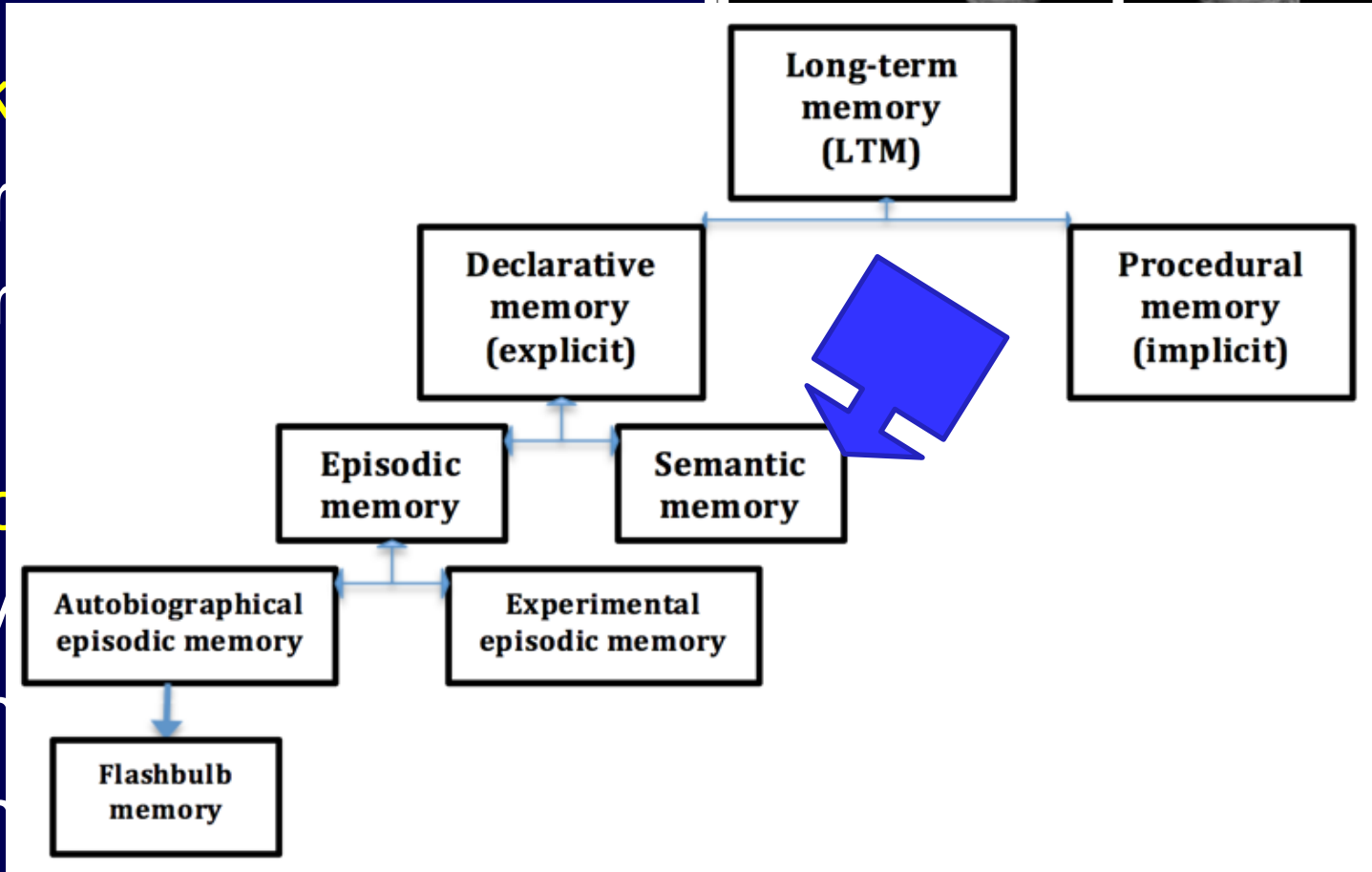
+ aspekty

(1) pov

(2) ner

(3) ner

(4) narušená znalost' objektů (object semantics)



Logopedická batéria PPA

- Spontánna reč (opis obrázka)
- Test pomenovania obrázkov (30+30)
- Porozumenie slovám (slovo + obrázok)
- Sémantika (Arizona semantic test)



Logopedická batéria PPA

- Spontánna reč (opis obrázkov)

Test pomenovania obrázkov
(30+30)
BNTcz coming soon 😊

- Test pomenovania obrázkov
- Porozumenie slovám (slovo + obrázok)
- Sémantika (Arizona semantic test)

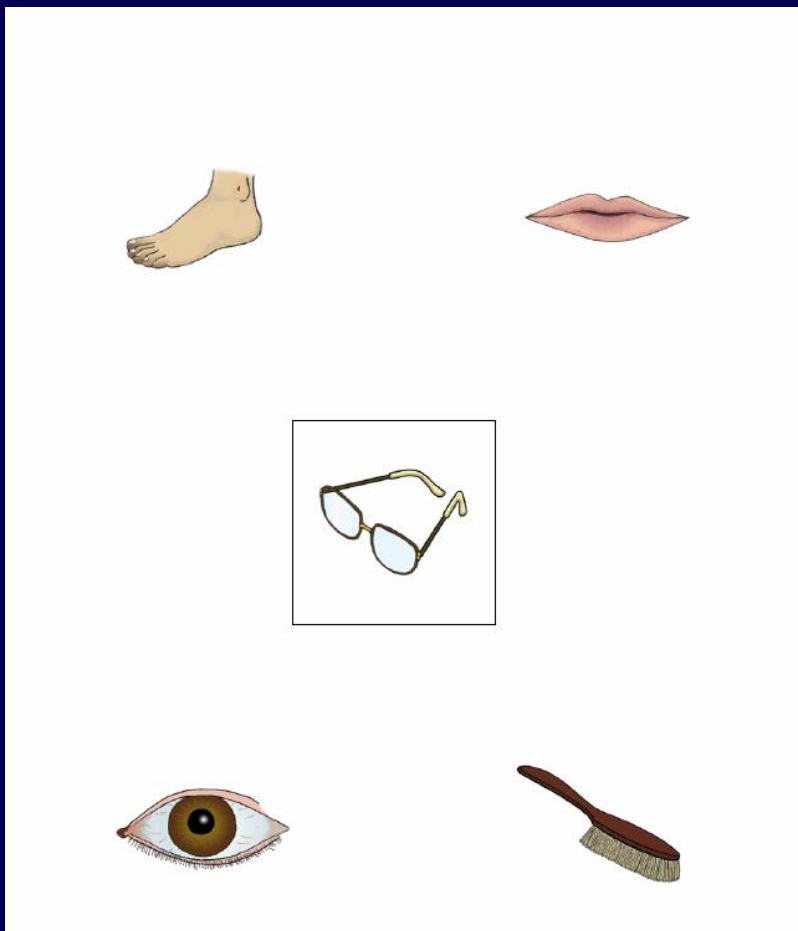
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Hodnotenie sémantiky (object semantics)



- **ARIZONA SEMANTIC TEST**
- 40 položiek
- máme predbežné normy intaktnej populácie (slov.)

Vaskulárna vs. progredujúca afázia



NIE ÚPLNE
IDENTICKÝ KLINICKÝ
OBRAZ !!!

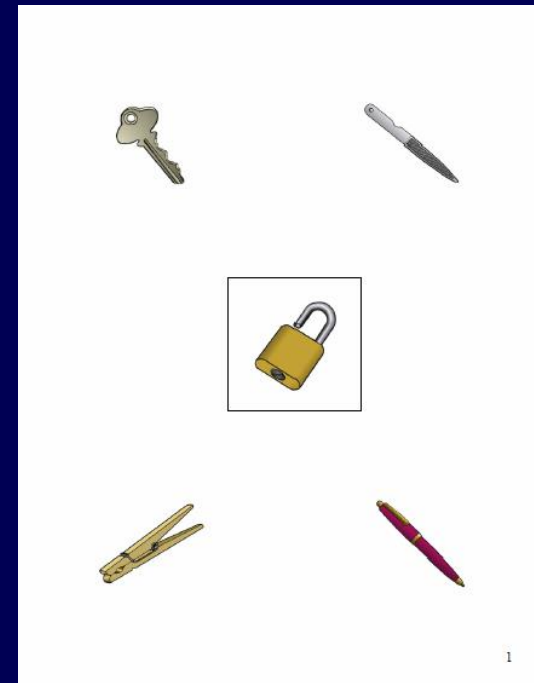
- Wernickeho afázia = svPPA
- Brocova afázia = nfa PPA
- Konduktívna afázia = lvPPA

Sémantická pamäť (object + lexical semantics)

svPPA

zlý výkon napr. Arizona semantic test

- narušené lexikálna vyhľadávanie
- „naming“ (pri pomenovaní obrázkov)
- viac zachovaný nadradený pojem (namiesto pelikán – vták, zviera)
- postupná degradácia lexikónu, všetko bude označované ako „vec“



Sémantická pamäť (object + lexical semantics)

WERNICKEHO afázia

dobrý výkon napr. Arizona semantic test

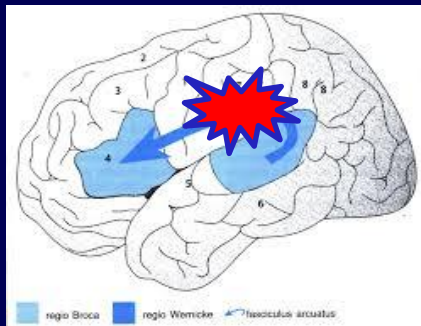
- narušené lexikálna vyhľadávanie
- zlý „naming“ (pri pomenovaní obrázkov)
- viac narušené slová ako concept



Opakovanie slov a viet

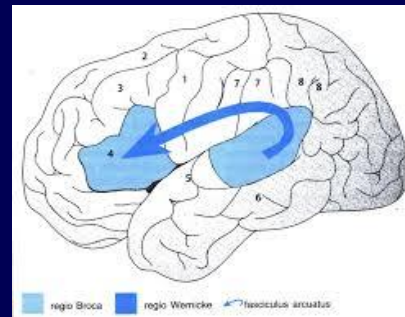
WERNICKEHO AFÁZIA

- Výrazne narušené
- Zasiahnutý FA



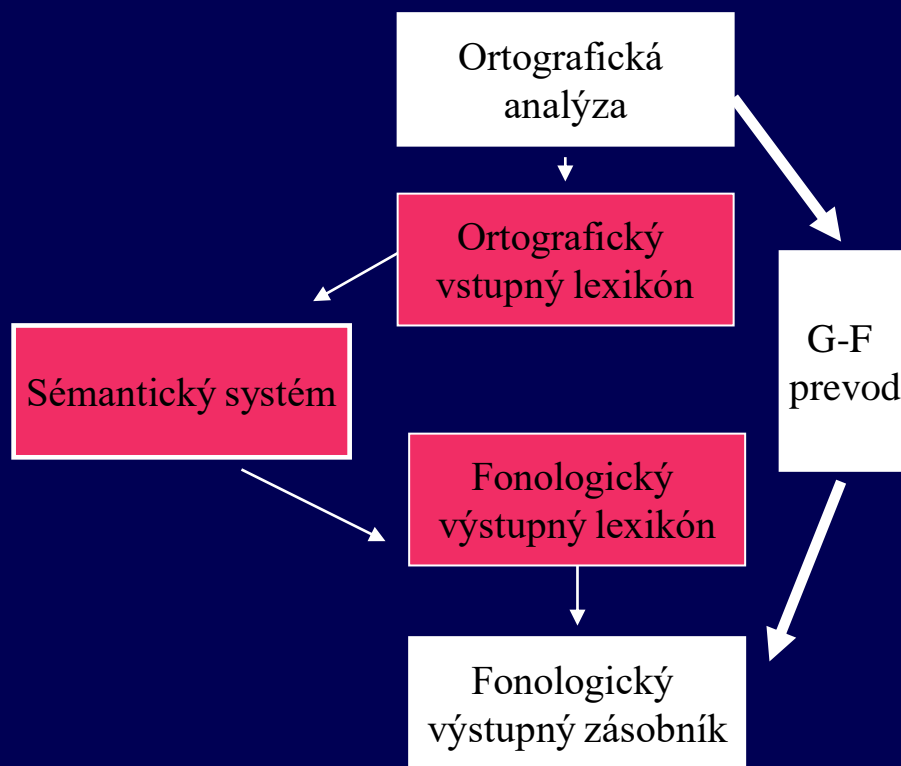
sémanický variant PPA

- Nenarušené, menej narušené
- Nezasiahnutý FA



Povrchová alexia (surface alexia)

(v českém, slovenském jazyku???)



Základná schéma PPA (Vandenberghe, 2016)

ANÓMIA

v spontánnej reči,
v pomenovaní

Agramatizmus,
apraxia reči, narušená motorika reči

plynulá spontánna
rečová produkcia

Áno

už na úrovni slov

Porucha
porozumenia reči

Deficit krátkodobej
fonolog. pamäti

nonfluentný
agramatický variant

Sémantický variant

Logopenický variant

Diagnostika troch variantov PPA

- Krátky PPA test

SYDBAT - 80% pacientov správne zaradených do troch variantov PPA

- picture naming (30)
- comprehension (30)
- semantic association (30)
- repetition (30)

Distinguishing Subtypes in Primary Progressive Aphasia: Application of the Sydney Language Battery

Article in *Dementia and Geriatric Cognitive Disorders* · February 2013

DOI: 10.1159/000346389 · Source: PubMed

mean-2 SD

- picture naming
- word-picture matching
- semantic association
- repetition

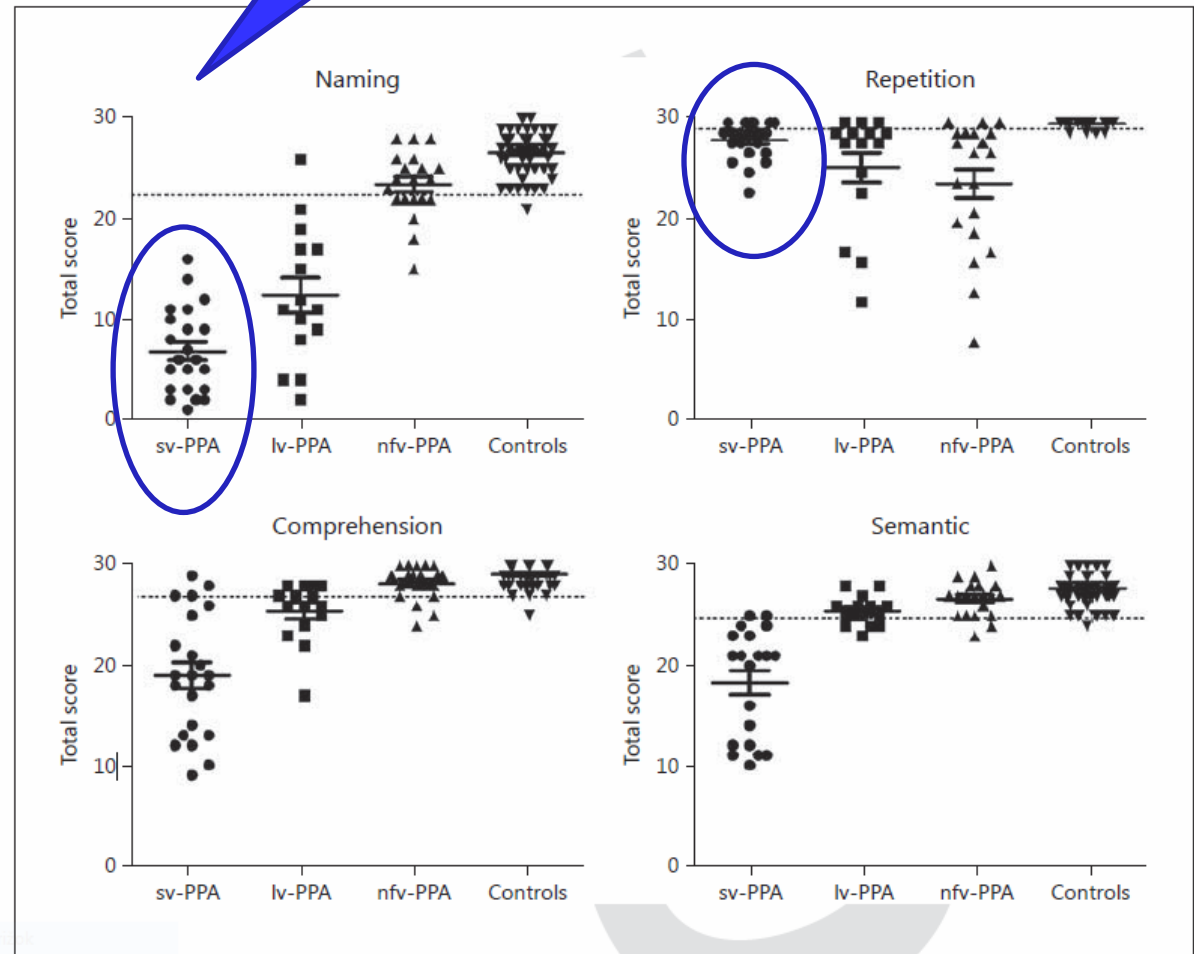


Fig. 1. SYDBAT subtest results by diagnosis. The dotted line indicates scores 2 SD below the mean of healthy controls. Error bars represent the SEM.

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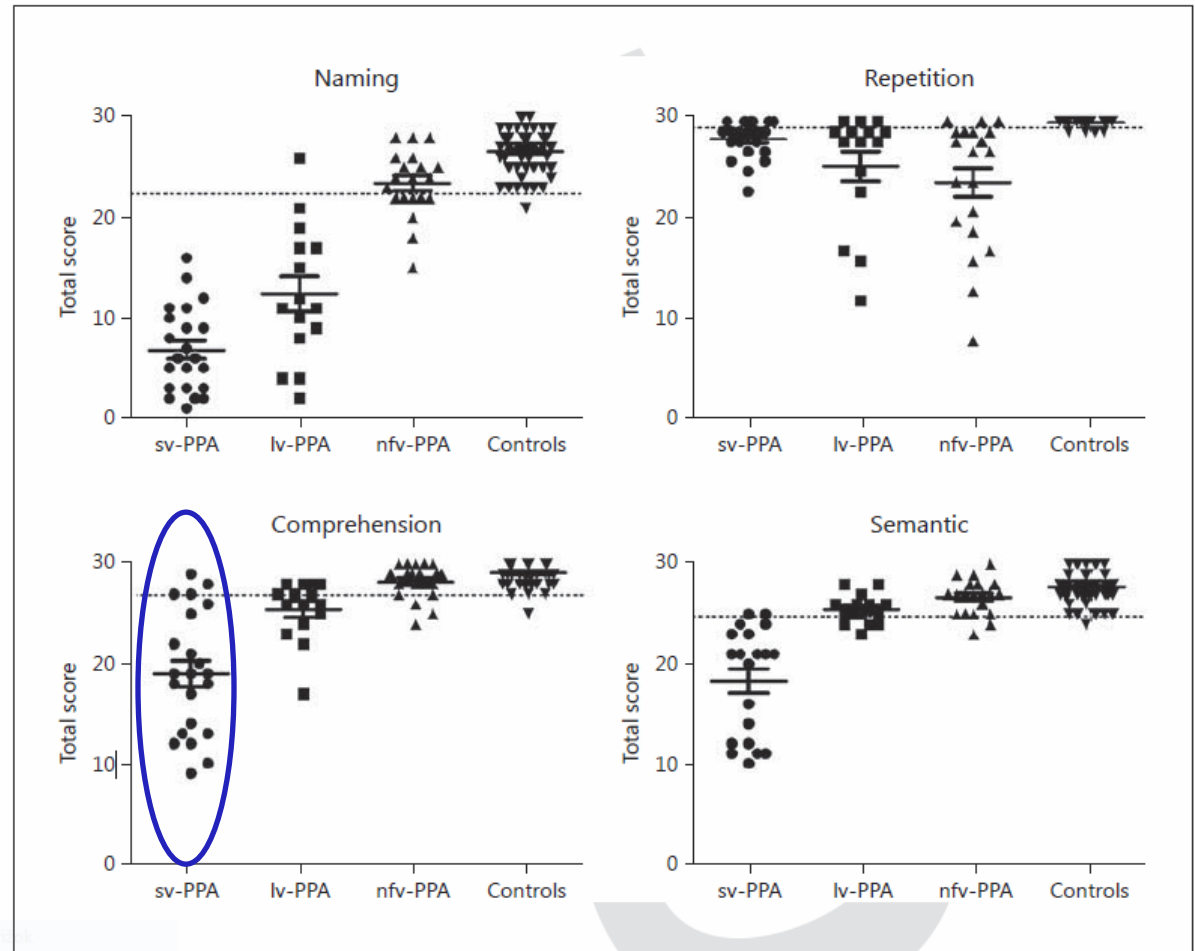


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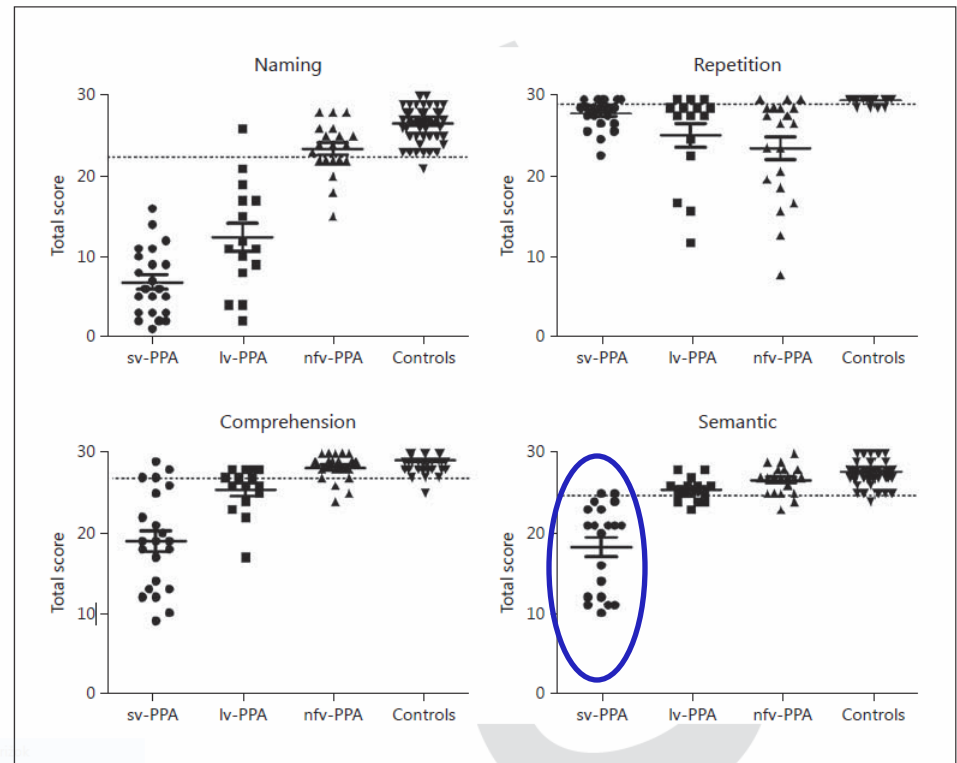
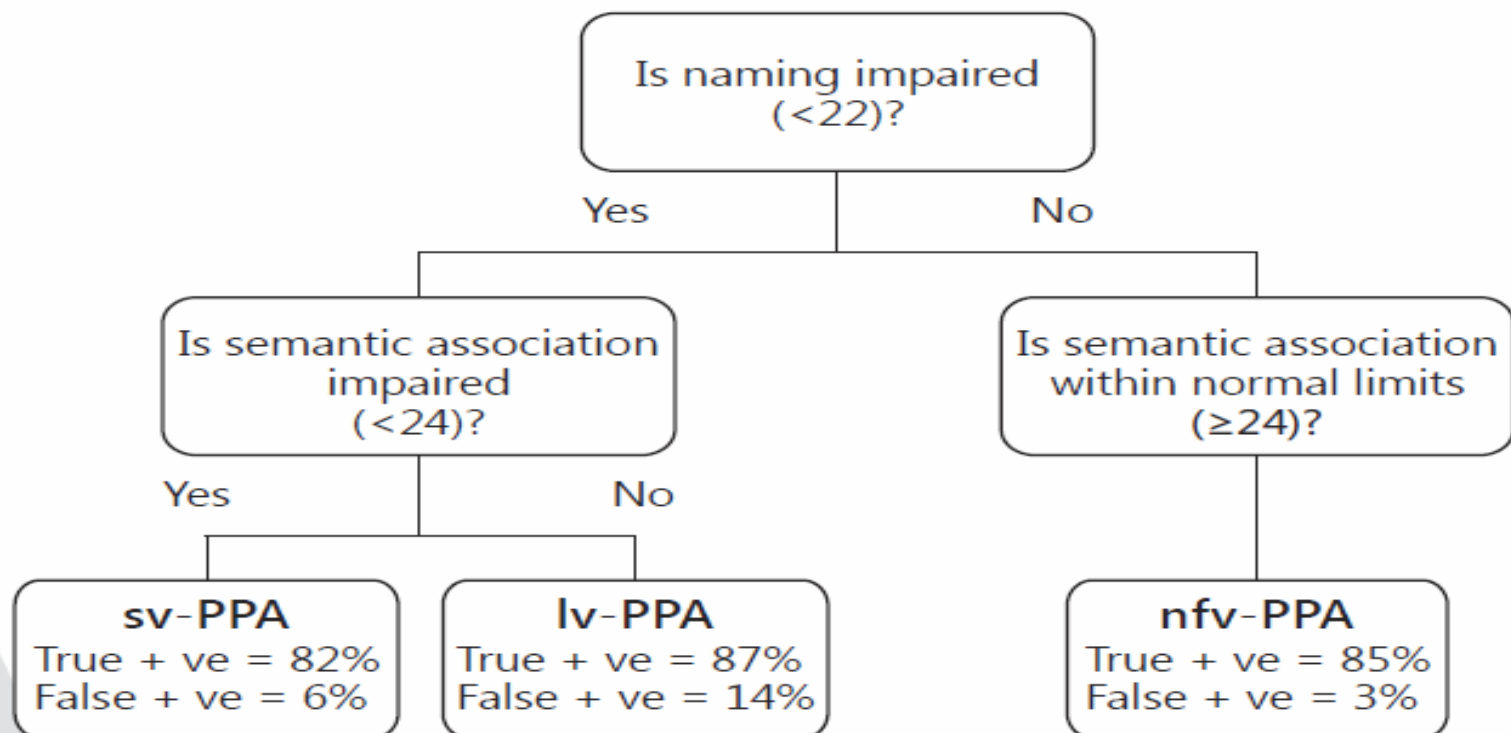


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- picture naming (30)
- comprehension (30)
- semantic association (30)
- repetition (30)

Savage et al.: Distinguishing Subtypes in Primary Progressive Aphasia: Application of the Sydney Language Battery



Nové výzvy a úlohy

- Skríning PPA (SYDBAT?)
- Senzitívnejšie jazykové testy (napr., „**graded naming test**“), detekcia aj diskretných deficitov
- Stupeň PPA monitorovanie dynamiky zmien (**PPASS**)

Staged treatment approach (M. Fried-Oken, Henry, 2013)

- 1) Obnovovanie funkcie
- 2) Posun k smerom AAK
- 3) Komunikačné stratégie konverzačný tréning

Nové výzvy a úlohy

- opis jazykovo-špecifických deficitov (SK: transparentná ortografia, bohatá morfológia)
- možnosti intervencie, efektivita - **online – prvé skúsenosti** 😊

Đakujeme za pozornost'

