



European Federation of Pharmaceutical  
Industries and Associations

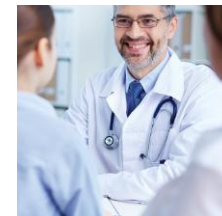


# Migraine & CGRP: a new era for patients

Author: Prof Jan Versijpt, MD PhD    Date: May 24, 2018



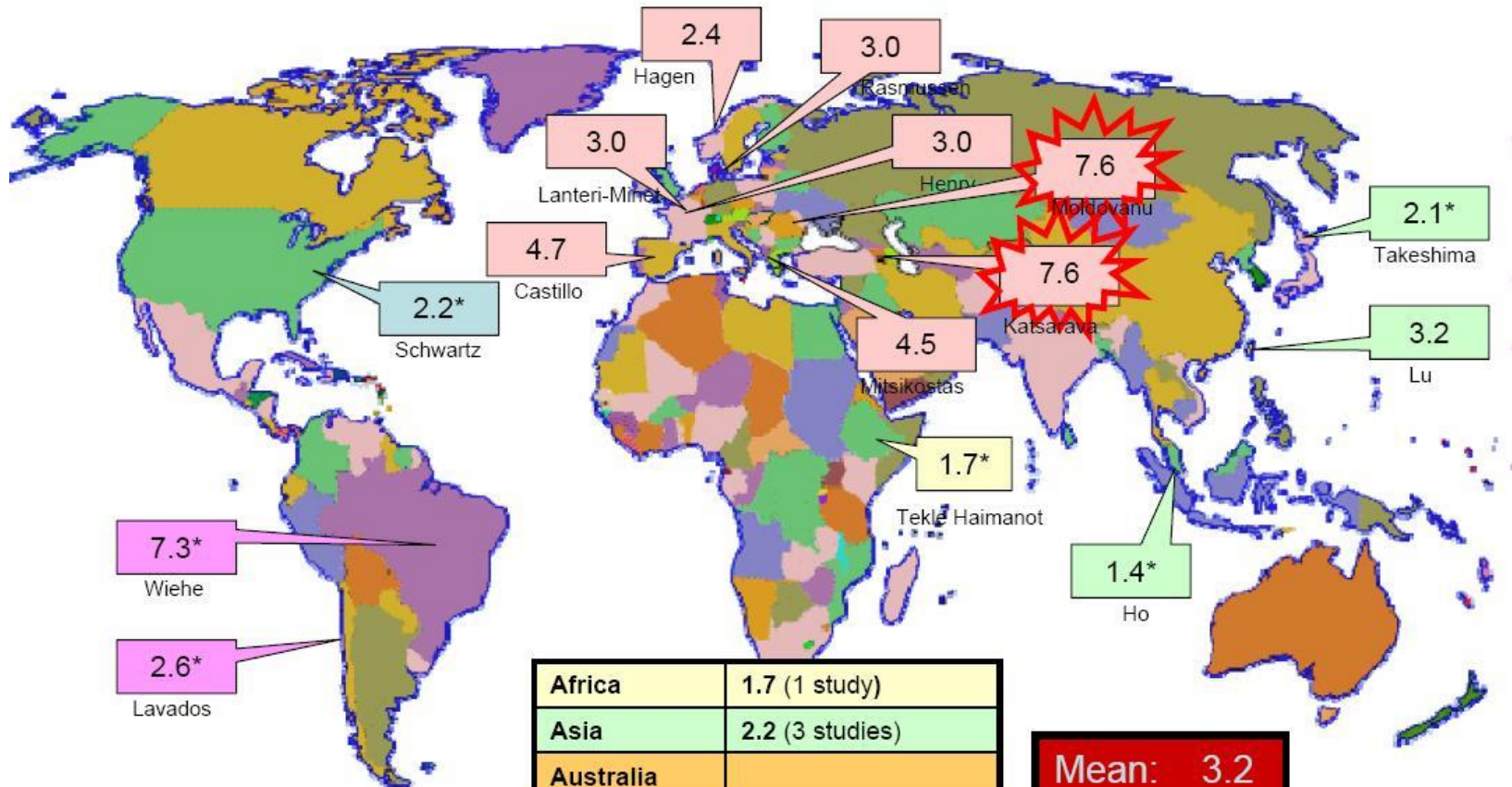
**“Unlocking  
Tomorrow’s Cures”**



“The patient with a headache often finds himself a medical orphan. He is fortunate indeed if his headache is transient, for otherwise he may find himself on an excursion to the ophthalmologist, otolaryngologist, neurologist, dentist, psychiatrist, chiropractor, and the latest health spa. He is x rayed, fitted with glasses, analysed, massaged, relieved of his turbinates and teeth and too often emerges with his headache intact.” RC Packard 1979

# "Chronic headache" in adults: one-year prevalence

- Population or community based
- > 500 participants
- Covering at least age groups 25-60



Africa	1.7 (1 study)
Asia	2.2 (3 studies)
Australia	
Europe	3.4 (6 studies)
N. America	2.2 (1 study)
S.America	5.0 (2 studies)

**Mean: 3.2**  
**Median: 3.0**

\*CTTH

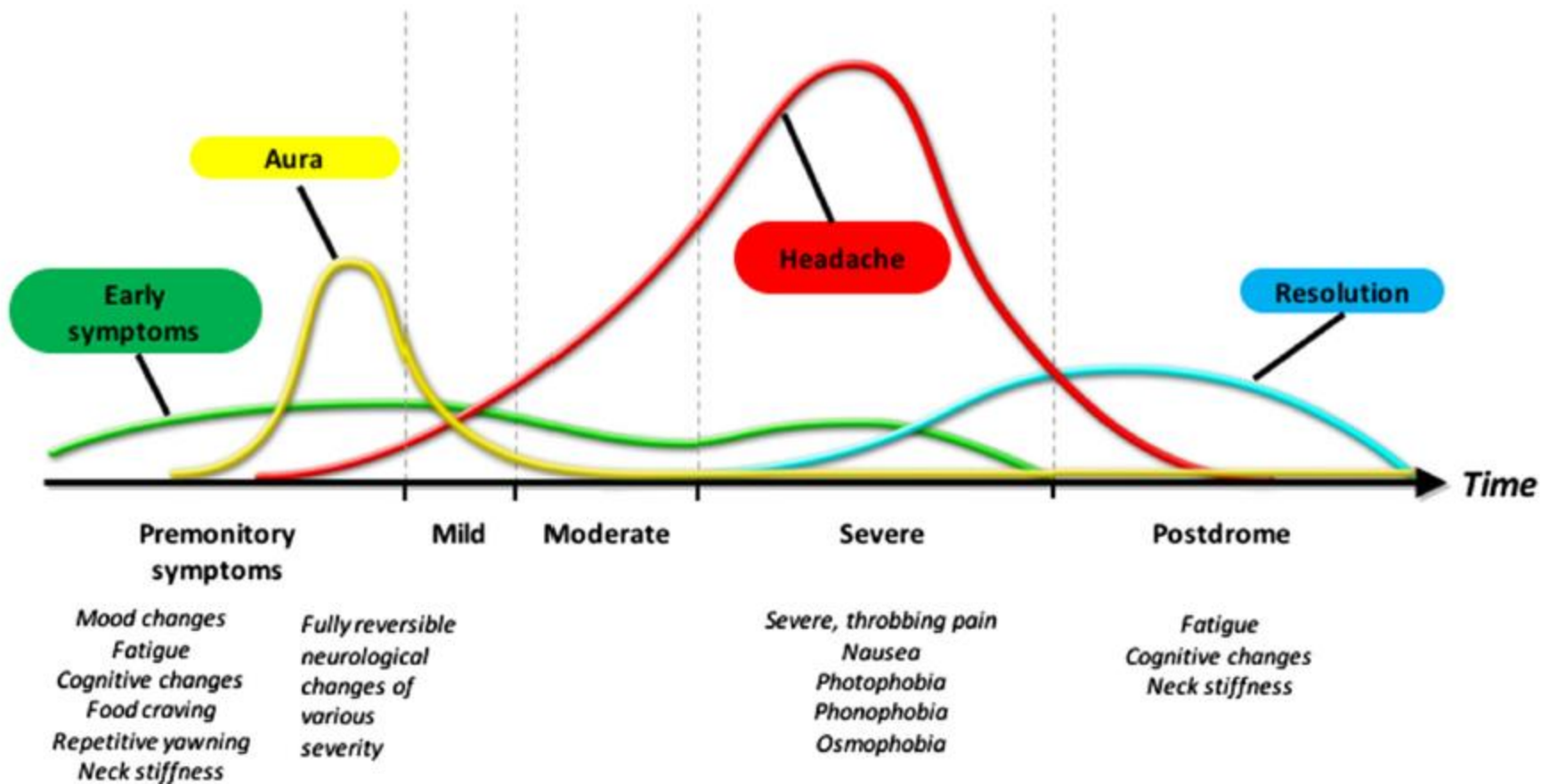
**A)**  $n \geq 5$

**B)**  4 - 72 h

**C)**  $\left. \begin{array}{l} 1. \text{ ☹️ / ☹️} \\ 2. \text{ ~~~~~} \\ 3. \text{ ++ / +++} \\ 4. \text{ ⬆️ ↗️} \end{array} \right\} 2/4$

**D)**  $\left. \begin{array}{l} 1. \text{ ☀️ + 🔔} \\ 2. \text{ ☹️ / 🗣️} \end{array} \right\} 1/2$



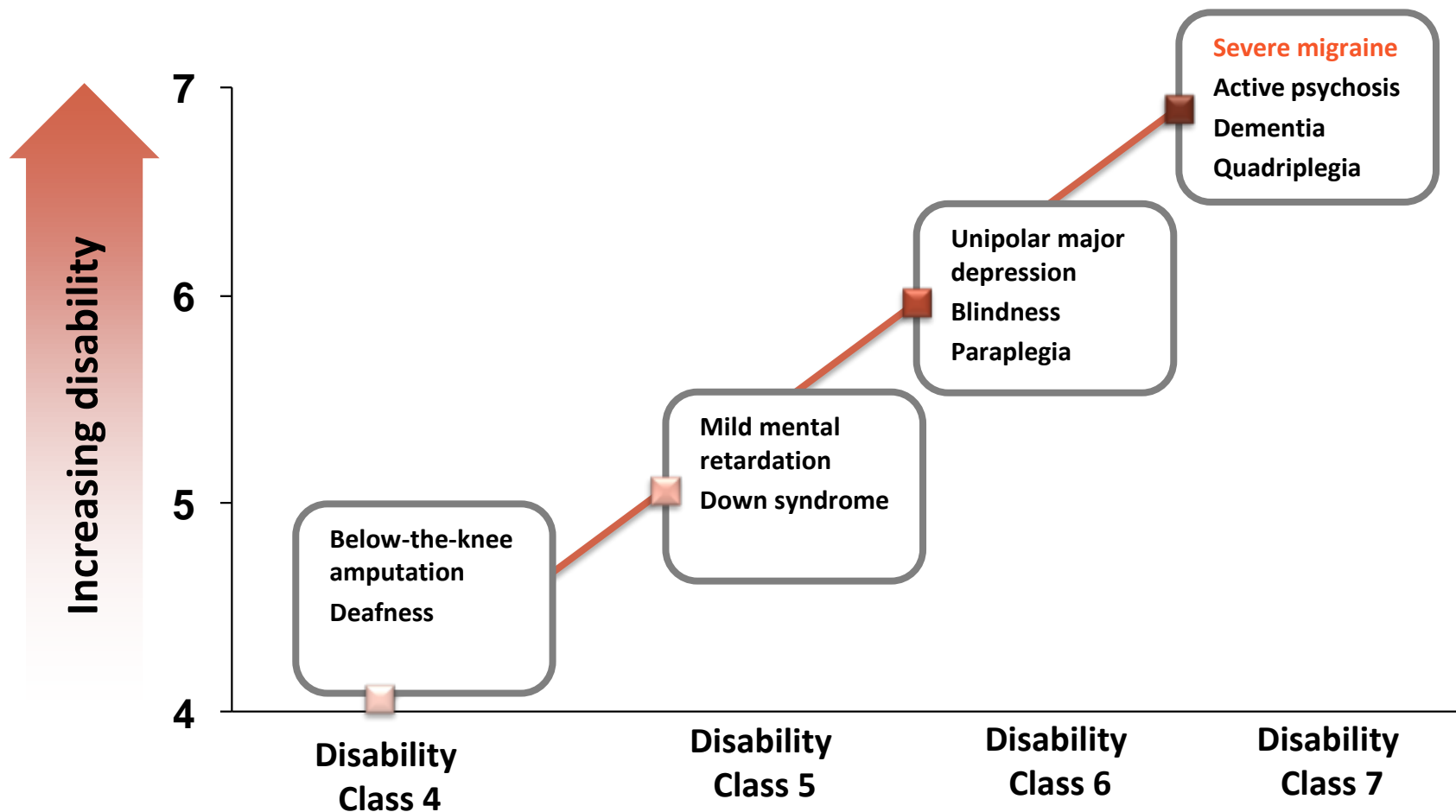


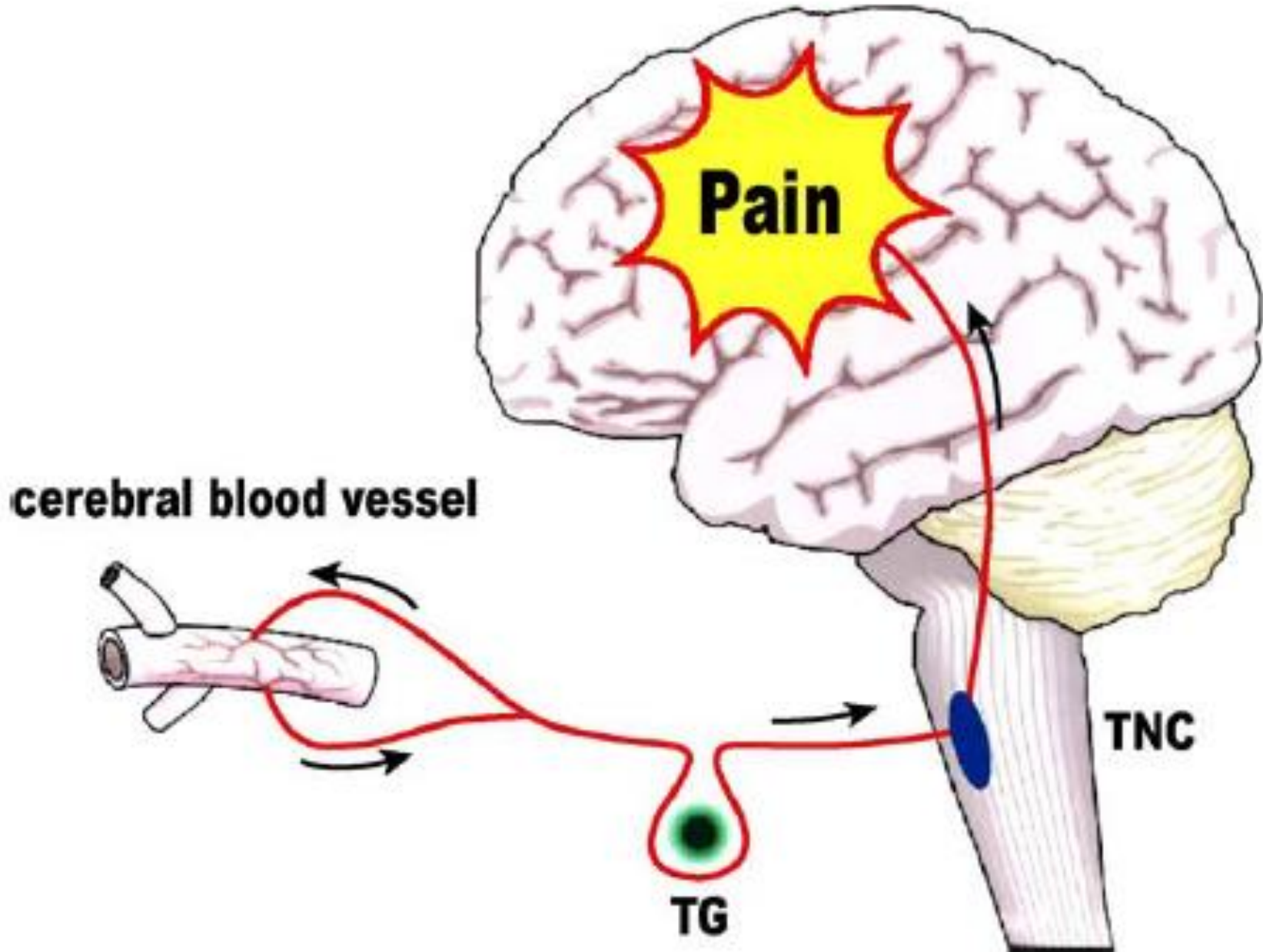


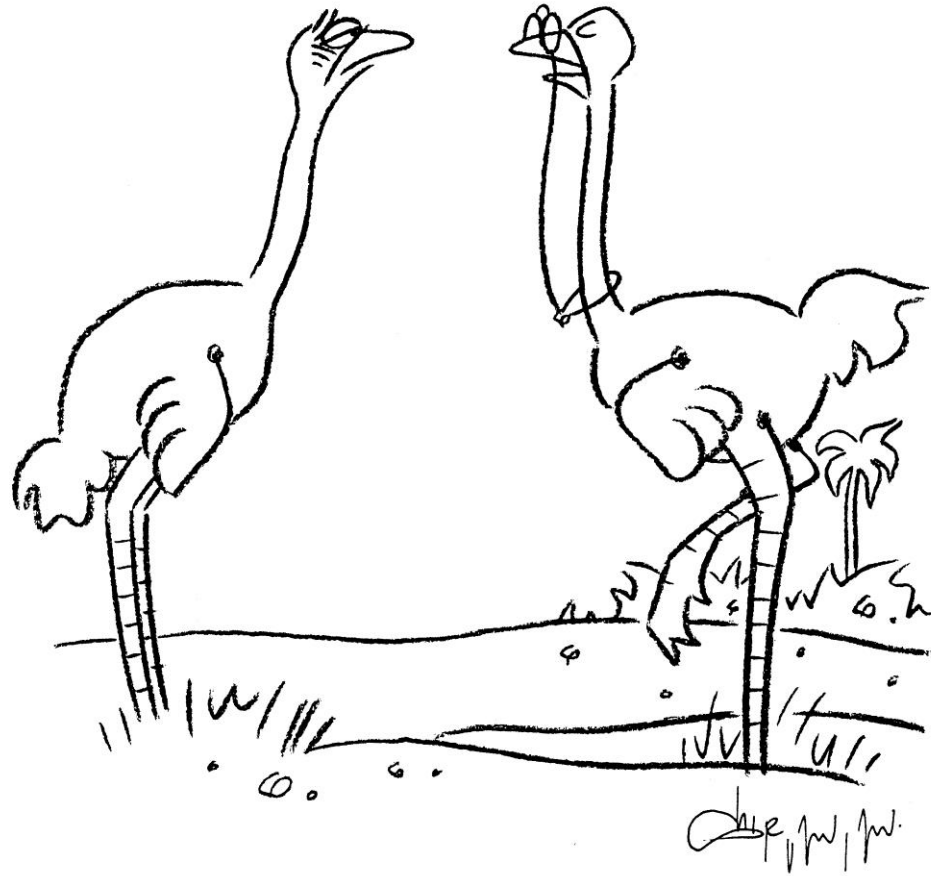


# GBD 2015: migraine is the third cause of disability in under 50s

Timothy J. Steiner<sup>1,2\*</sup>, Lars J. Stovner<sup>1,3</sup> and Theo Vos<sup>4</sup>

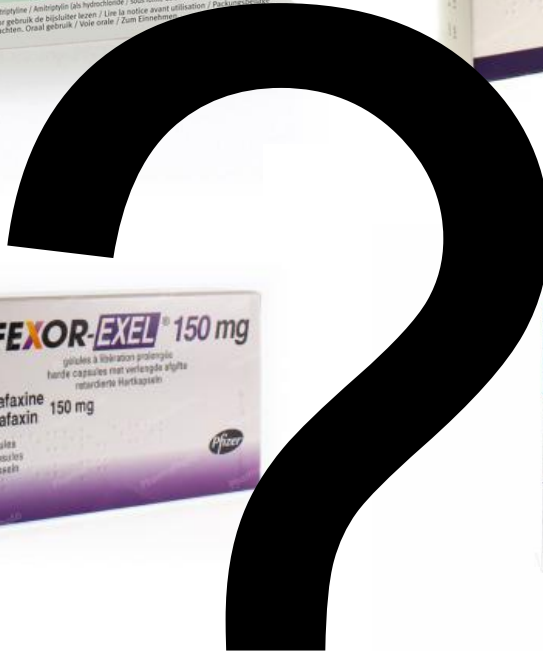






"Take two aspirin and stick your head in the sand."





# Vasoactive Peptide Release in the Extracerebral Circulation of Humans During Migraine Headache

P. J. Goadsby, MD, PhD,\* L. Edvinsson, MD, PhD,†  
and R. Ekman, MD‡

*Table 1. Changes in Neuropeptides during  
Classic Migraine (with Aura) Headache<sup>a</sup>*

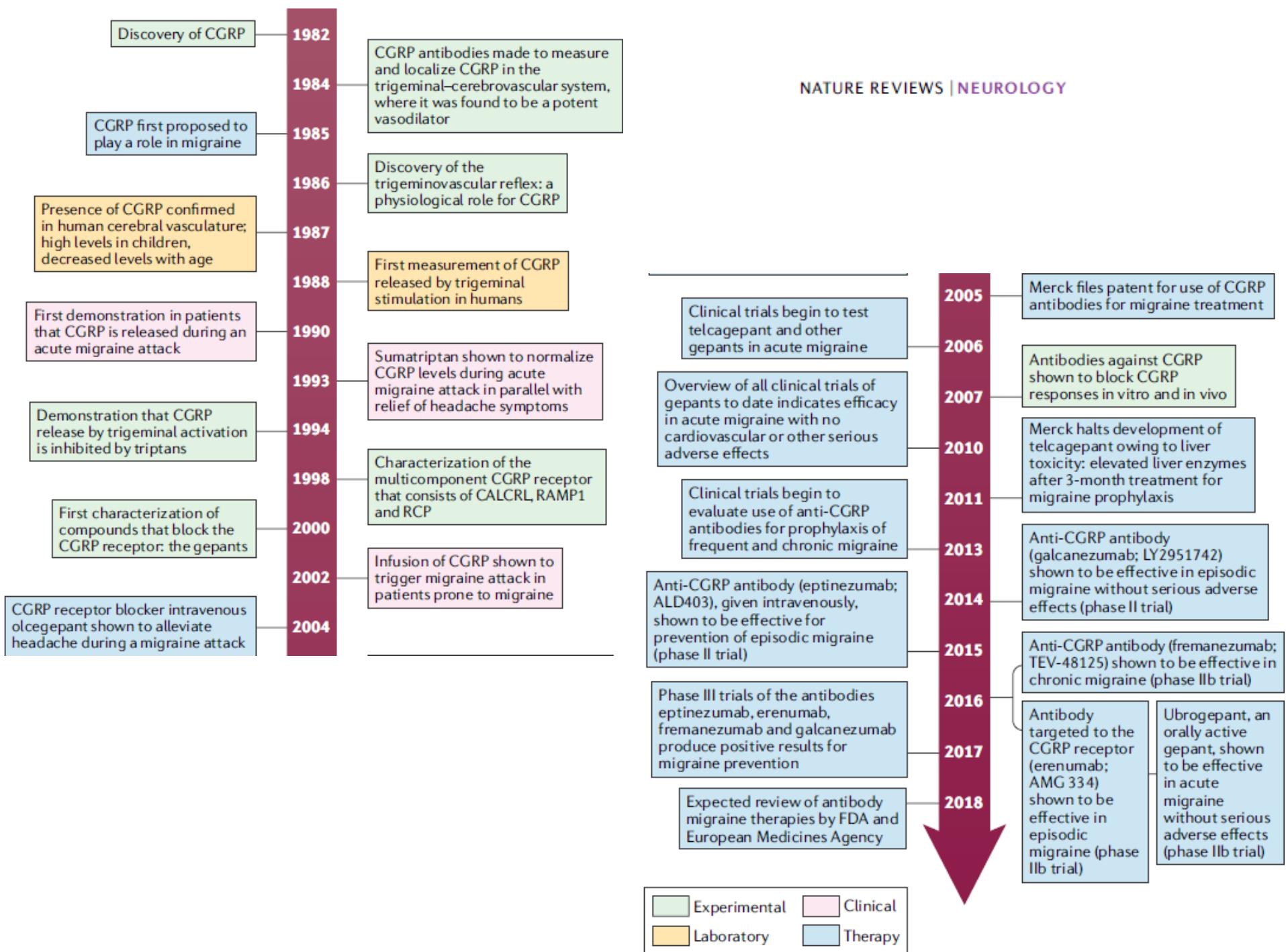
	VIP	CGRP	SP	NPY
Site				
External jugular	9 ± 3 <sup>b</sup>	92 ± 11 <sup>c</sup>	5 ± 2	146 ± 15
Cubital fossa	< 6	40 ± 6	5 ± 3	140 ± 13
Control values	< 6	< 40	< 4	< 130

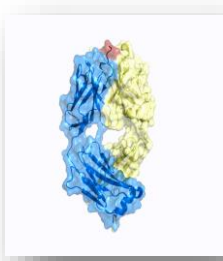
<sup>a</sup>All values are pmol/liter.

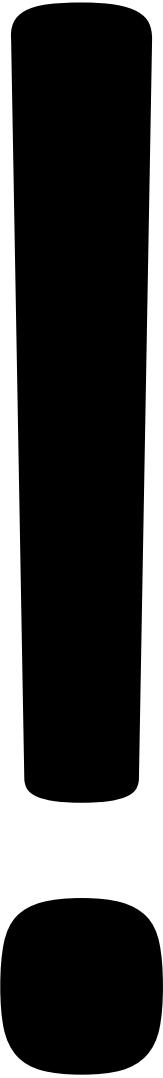
<sup>b</sup>Two patients were outliers and had higher levels; see text.

<sup>c</sup>CGRP level is significantly elevated in the external jugular blood of classic migraineurs ( $t_{39} = 6.9, p < 0.001$ ).

VIP = vasoactive intestinal polypeptide; CGRP = calcitonin gene-related peptide; SP = substance P; NPY = neuropeptide Y.







**Efficacy**  
**Short-term safety / tolerance**



**Superiority**  
**Efficacy in treatment-refractory patients**  
**Long-term safety**

THANK YOU!

Q&A

UNLOCKING  
TOMORROW'S  
CURES

efpia