

EQUILIBRE ET VERTIGES

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#### Introduction

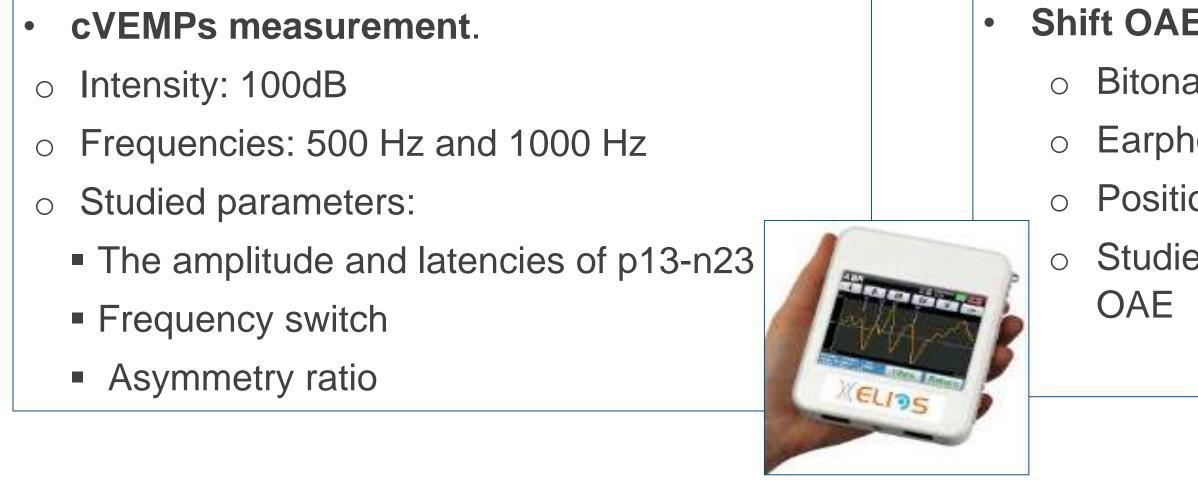
Vestibular migraine (VM) is characterized by the association of migraine and vestibular symptoms. Its diagnosis is still challenging due to the overlap between its manifestations and vestibular findings with other vestibular disorders.

### **Objectifs**

We aim at describing the clinical presentation of VM and at determining the results of cervical vestibular evoked myogenic potentials (cVEMPs) and phase shift of distortion products otoacoustic (shift-OAE).

#### **Materials and methods**

- Included patients: confirmed vestibular migraine diagnosis based on the criteria of the Barany Society.
- We studied cVEMPs and Shift-OAE measurement using ECHODIA device



#### Conclusion

- Vestibular migraine mainly affects middle-aged women.
- The spectrum of its manifestations is wide. Physical and vestibular examinations are frequently normal.
- Different cVEMPs and Shift-OAE abnormalities can be observed. However, these abnormalities are not specific to this entity and can overlap with the observed findings in other vestibular pathologies such Meniere's disease.
- A comparative study between vestibular migraine and normal patients can be helpful in determining their role

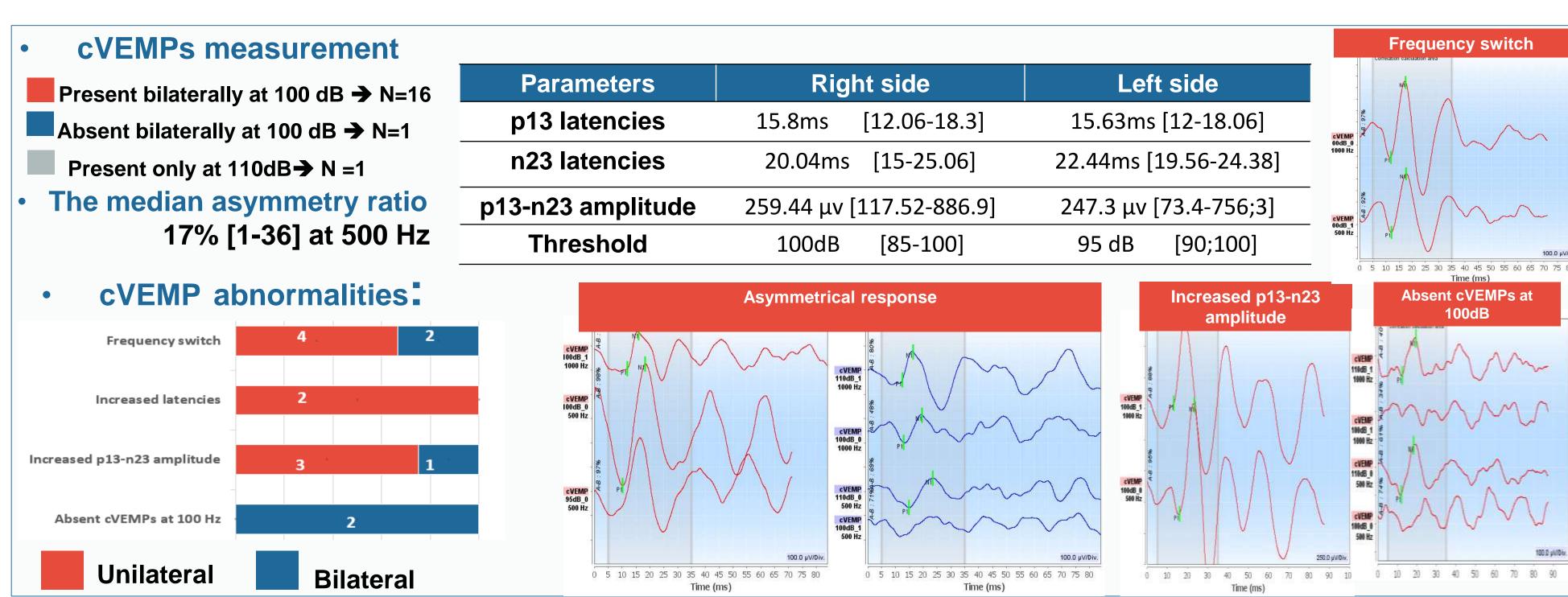
# Vestibular migraine : an overview of clinical features and vestibular tests

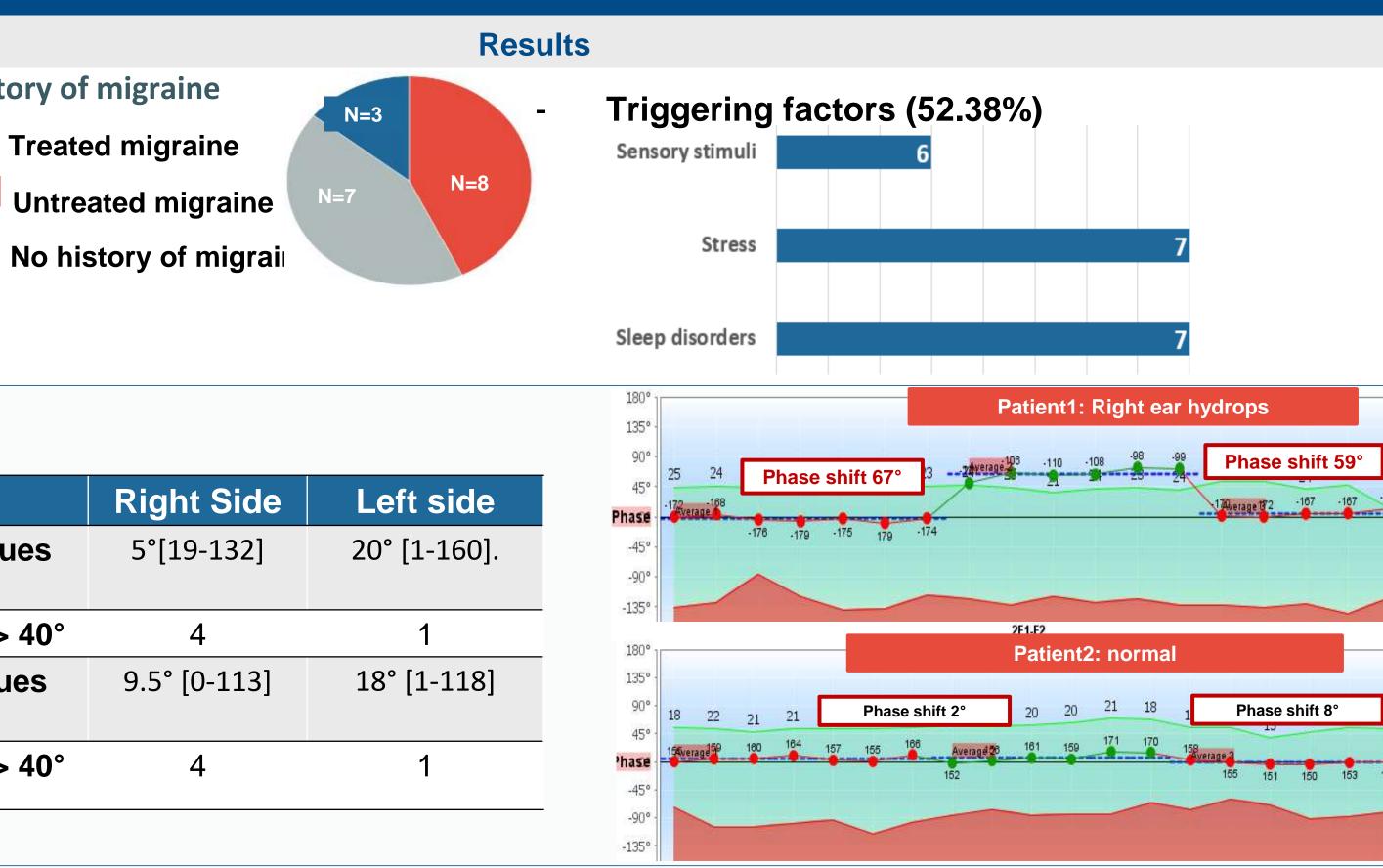
- History of migraine • Number of patients: 18
  - Male to female ratio: 0,12
- Mean age: 41 years old
- Treated migraine
- **No history of migrai**

- Shift OAEs measurement
  - Bitonal acoustic stimulation
- Earphone probes
- Positions: Sitting– lying- Sitting
  - Studied parameter: Shift of

## **Shift-OAE measurement**

		Right S
Phase shift 1: -Seated position	Median values	5°[19-1
-Supine position	Phase shift > 40°	4
Phase shift 2: -Supine position -Seated position	Median values	<b>9.5° [0</b> -1
	Phase shift > 40°	4





			Frequency switch
eters	Right side	Left side	M
encies	15.8ms [12.06-18.3]	15.63ms [12-18.06]	
encies	20.04ms [15-25.06]	22.44ms [19.56-24.38]	
mplitude	259.44 μv [117.52-886.9]	247.3 μν [73.4-756;3]	CVEMP 00dB_1 500 Hz
hold	100dB [85-100]	95 dB [90;100]	100.0 µV/Div.
			0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 Time (ms)
	Asymmetrical response	Increased p13-n23	Absent cVEMPs at



