

# EEG training

## in adult neurology residency

## at Egyptian Universities



**Prof. Dr. Saly Elkholy**

**Prof. Dr. Mye Basheer**

**Ass Prof. Dr. Basma Bahgat**

**Dr. Reham Bakry**

# An e-survey was adopted from Nascimento and colleagues (2022)



> [Neurology](#). 2021 Apr 27;96(17):821-824. doi: 10.1212/WNL.00000000000011354. Epub 2020 Dec 11.

## Education Research: Neurology Resident EEG Education: A Survey of US Neurology Residency Program Directors

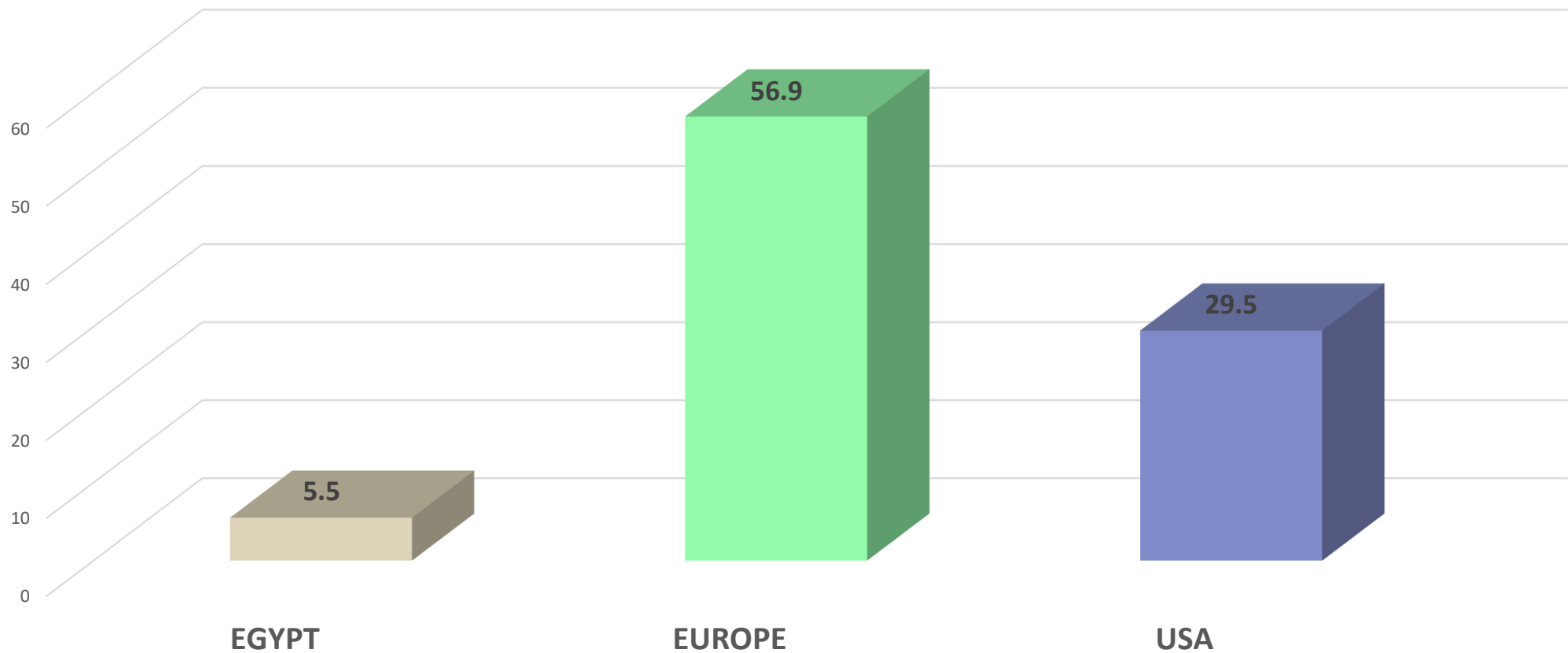
Fábio A Nascimento<sup>1</sup>, Jay R Gavvala<sup>2</sup>

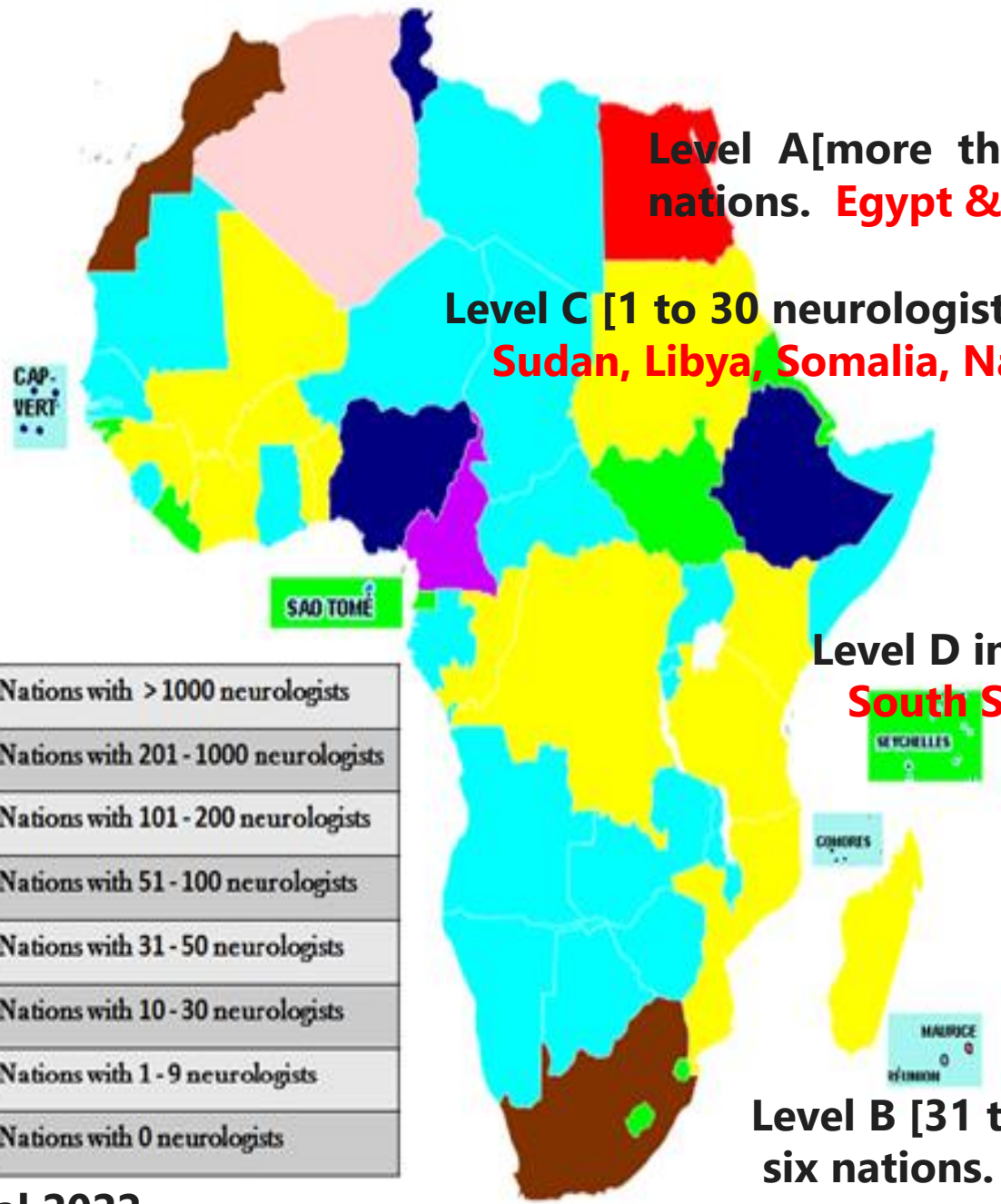
Affiliations + expand

PMID: 33310878 DOI: [10.1212/WNL.00000000000011354](https://doi.org/10.1212/WNL.00000000000011354)

A 19- question online survey focused on EEG clinical training during adult neurology residency in 24 universities under the umbrella of SCU

# The number of residents who completed a neurology residency training program per year





**Level A** [more than 201 neurologists per country] 2 nations. **Egypt & Algeria**

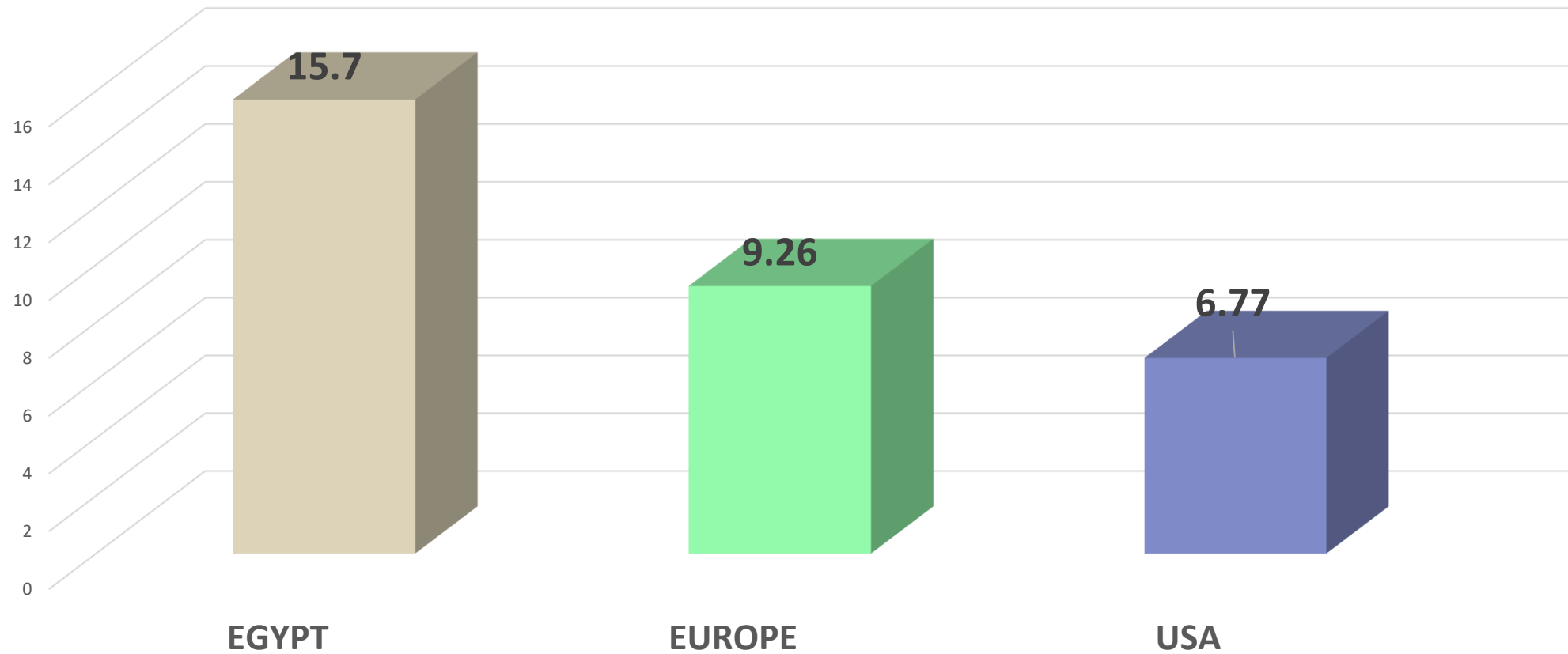
**Level C** [1 to 30 neurologists per country] 36 nations. **Sudan, Libya, Somalia, Namibia....**

**Level D** includes 10 nations without any neurologists **South Sudan, Djibouti, Seychelles**

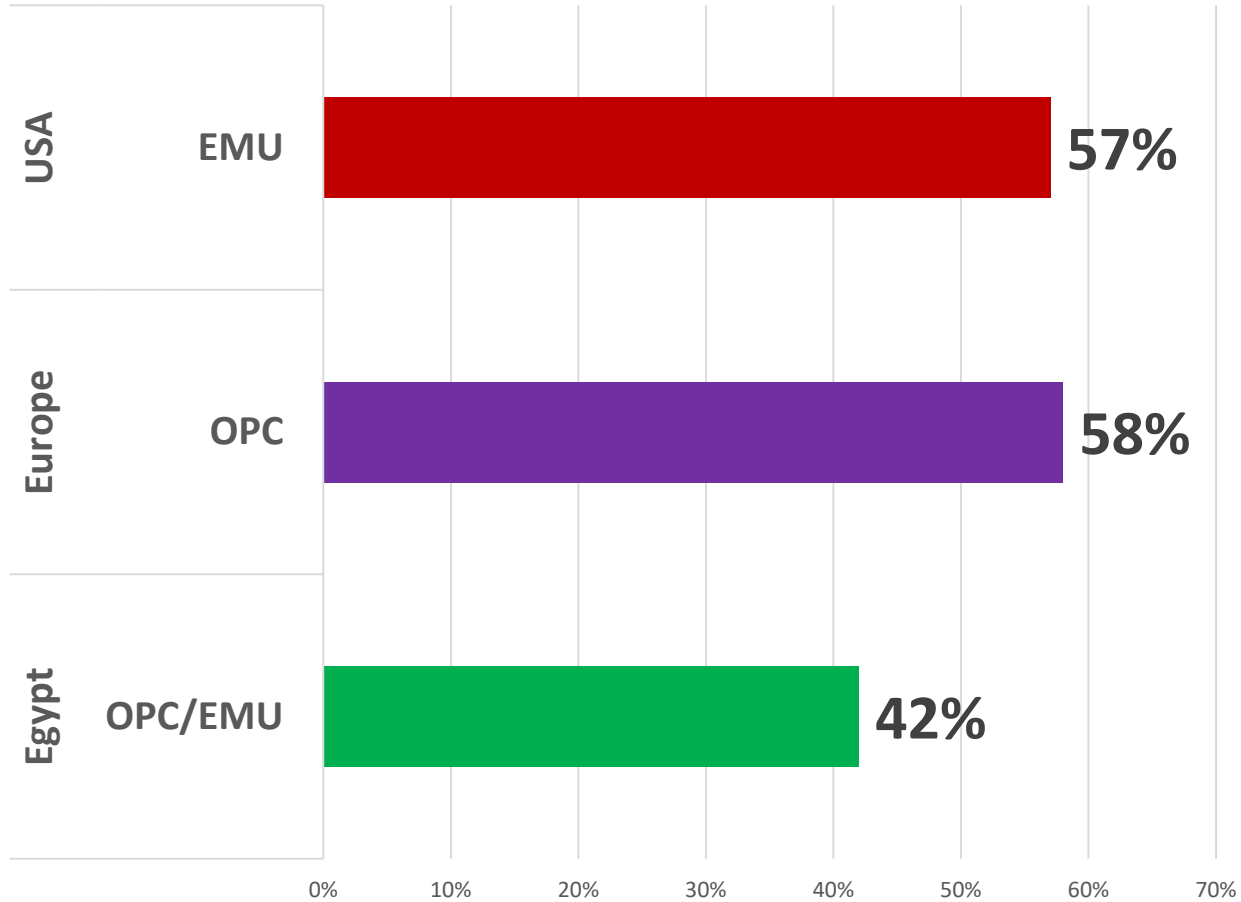
**Level B** [31 to 200 neurologists per country] six nations. **South Africa, Morocco, Ethiopia**

|         |   |   |                                      |
|---------|---|---|--------------------------------------|
| Level A | 1 | <span style="color: red;">■</span>        | Nations with > 1000 neurologists     |
|         | 2 | <span style="color: lightcoral;">■</span> | Nations with 201 - 1000 neurologists |
| Level B | 1 | <span style="color: brown;">■</span>      | Nations with 101 - 200 neurologists  |
|         | 2 | <span style="color: darkblue;">■</span>   | Nations with 51 - 100 neurologists   |
|         | 3 | <span style="color: magenta;">■</span>    | Nations with 31 - 50 neurologists    |
| Level C | 1 | <span style="color: yellow;">■</span>     | Nations with 10 - 30 neurologists    |
|         | 2 | <span style="color: cyan;">■</span>       | Nations with 1 - 9 neurologists      |
| Level D | 1 | <span style="color: green;">■</span>      | Nations with 0 neurologists          |

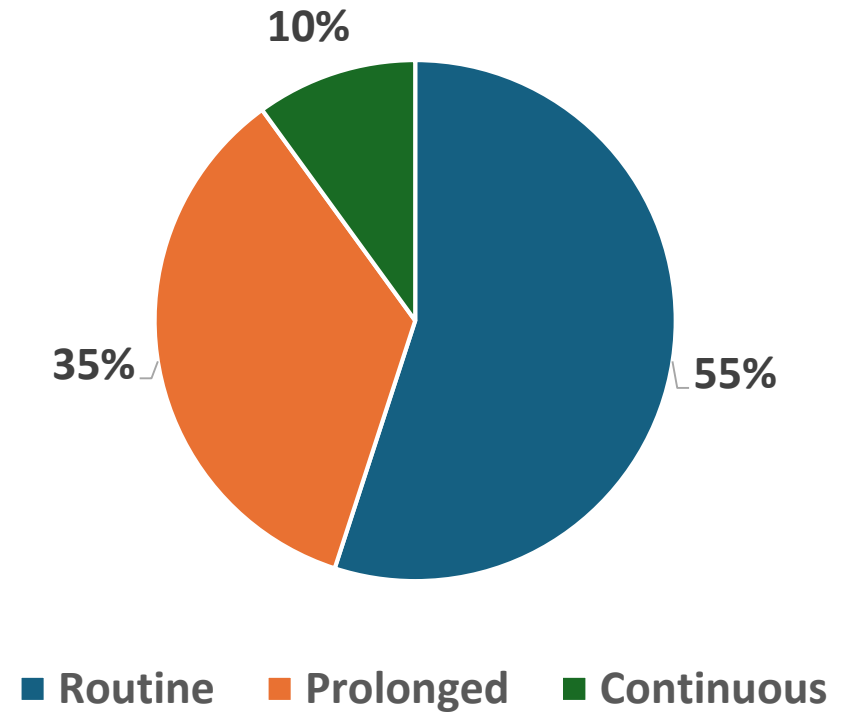
# Weeks devoted to learn EEG in adult neurology residency program



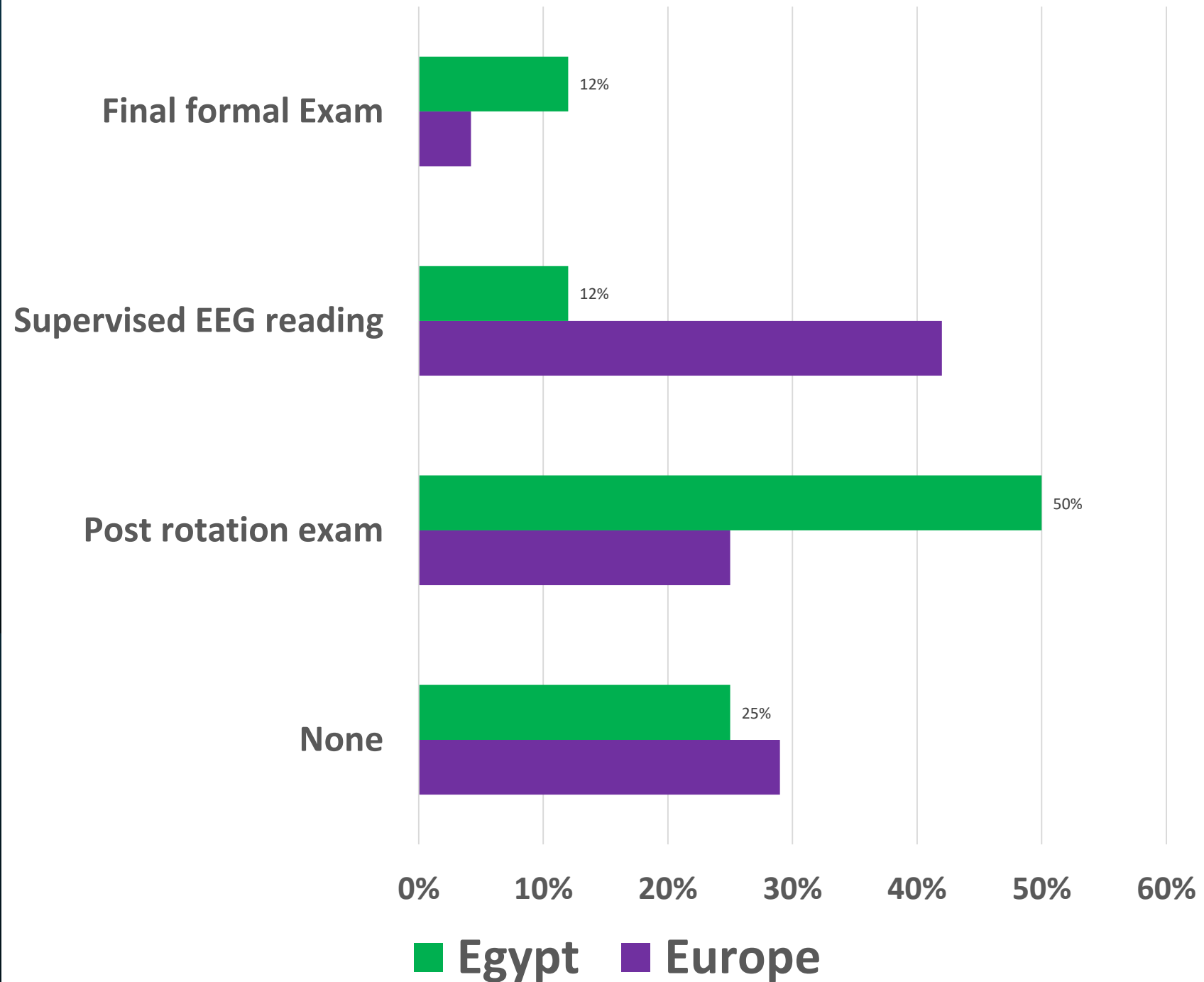
## Setting of the EEG rotation



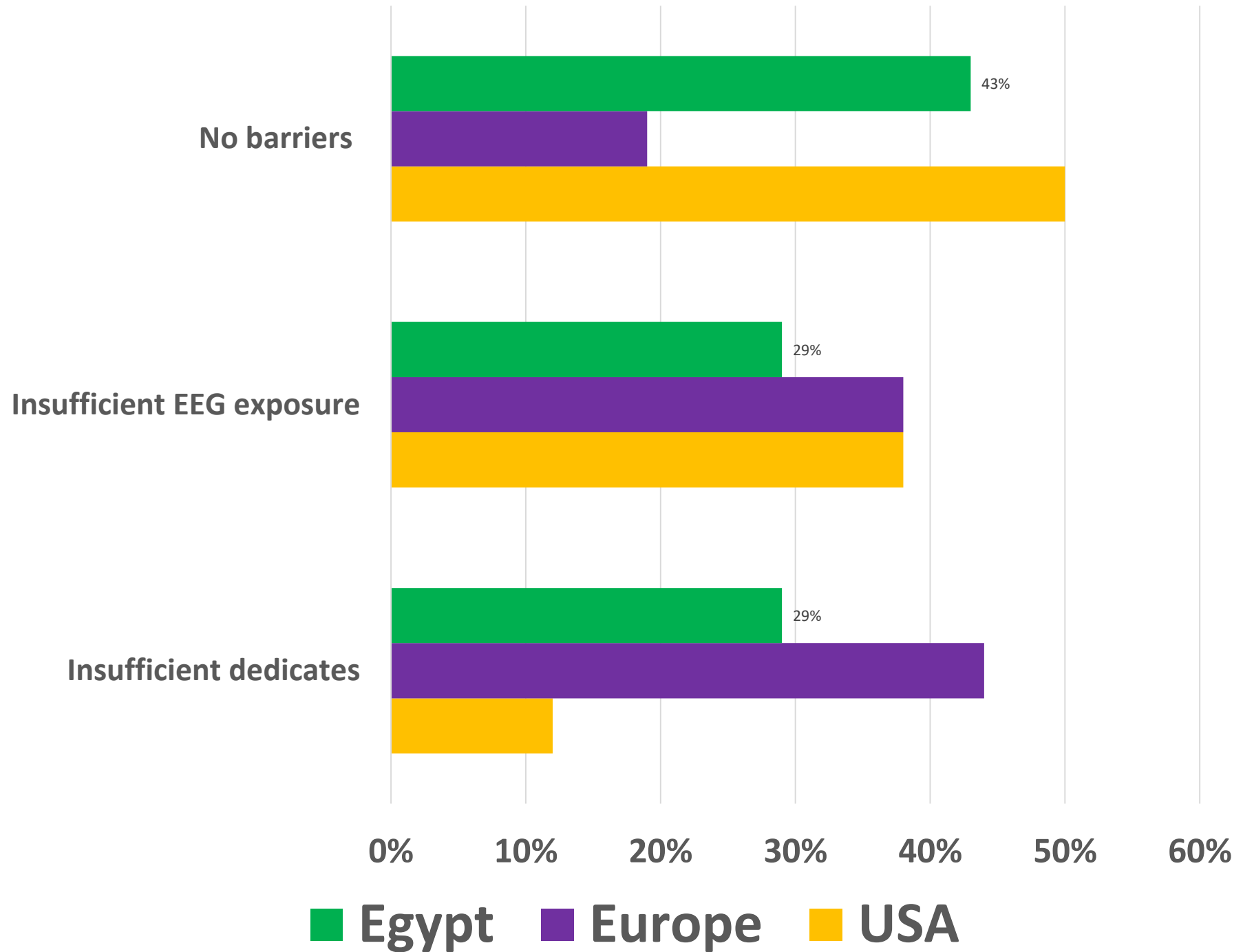
## EEG types typically read



# Requirements for successful completion of the EEG rotation

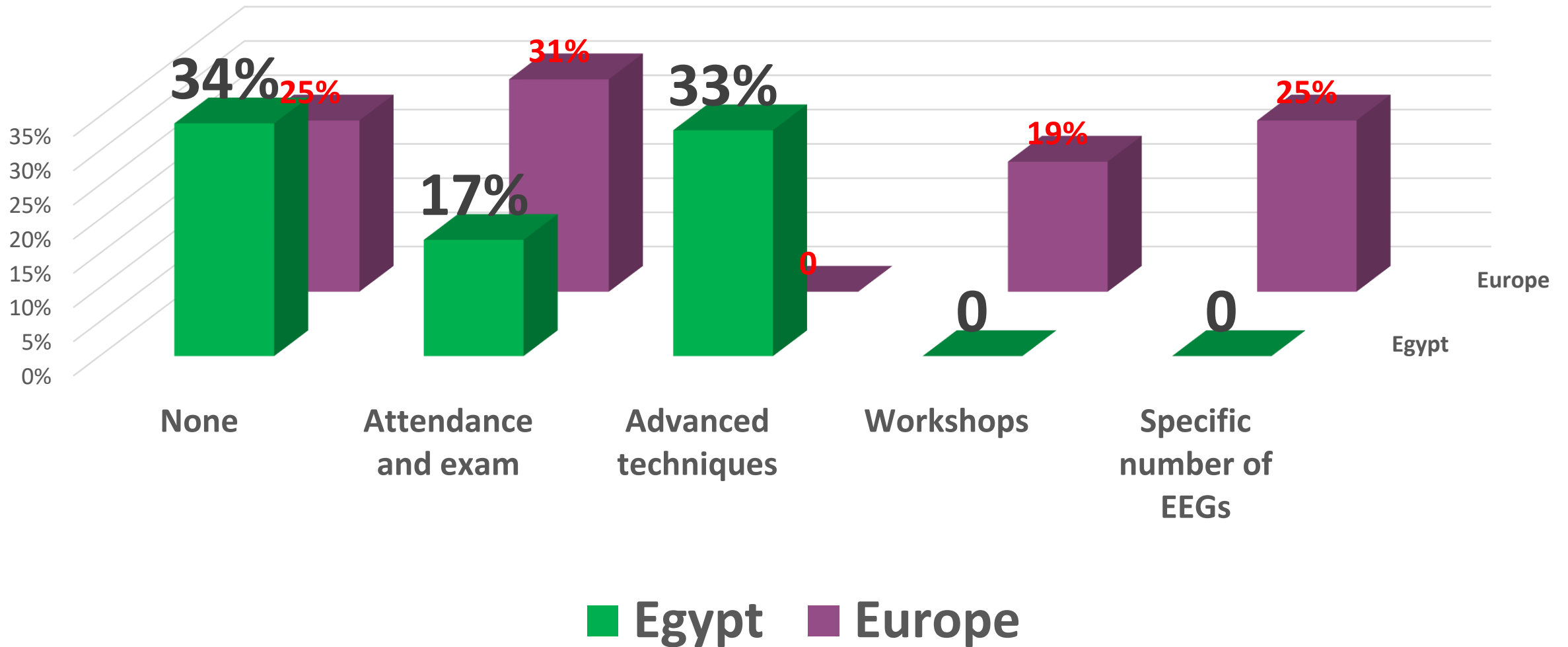


# Barriers

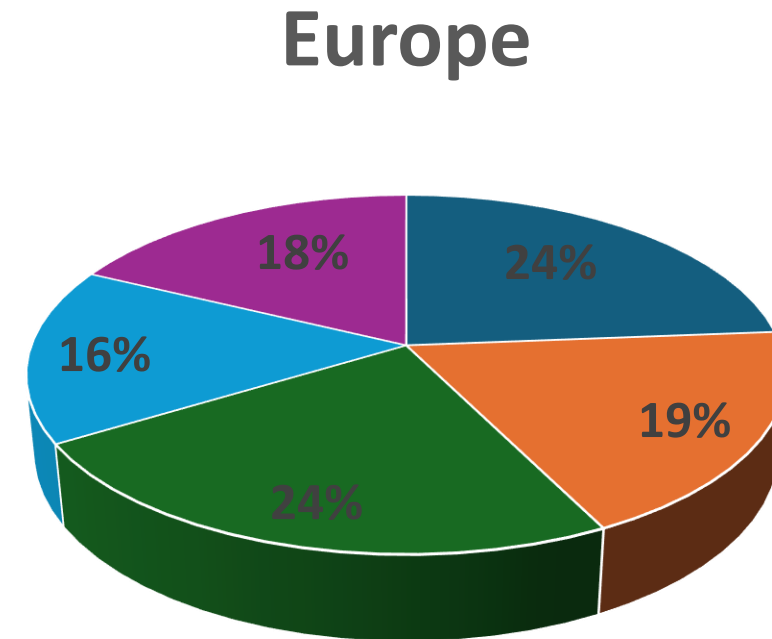
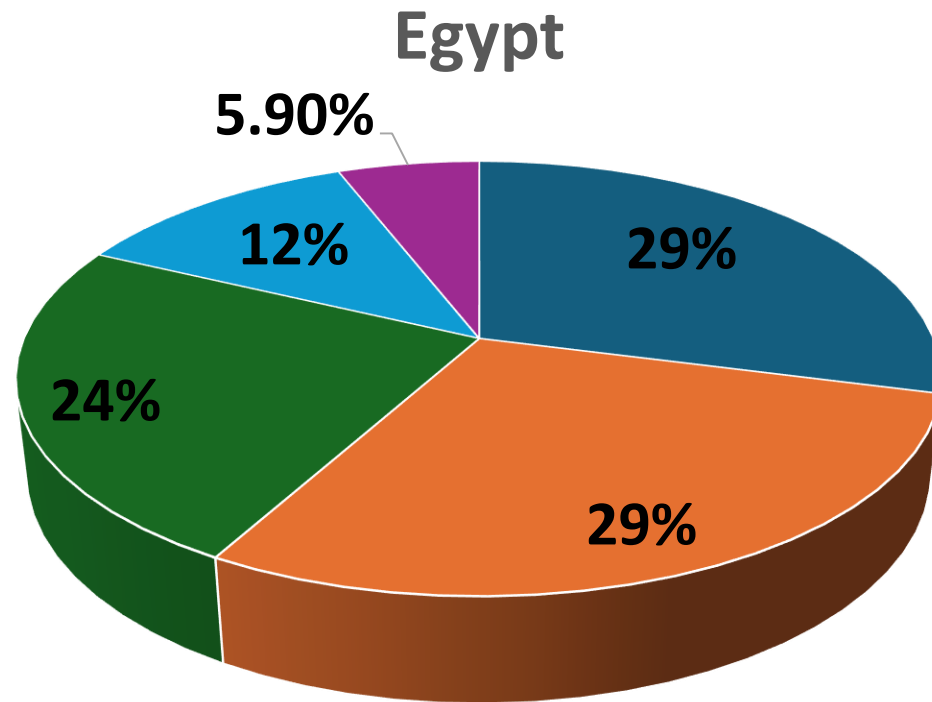




# Assessment measures for EEG competency



# Who is reading EEG in daily practice



- General Neurologist
- Neurologist with epilepsy training
- Neurologist with neurophysiology training
- Neurologist with epilepsy and neurophysiology training
- Neurophysiologist

# Recommendations

The current EEG learning programs for the adult neurology residency in Egypt like that in Europe and USA is highly variable

## **More Time, More reads**

- Updates for EEG training is dynamically changing
- Non-traditional teaching methods, such as e-learning programs should be used

National as well as international standardization of these programs is highly recommended

