



# TRENDS IN ANTIEPILEPTIC DRUG USE IN CHILDREN AND ADOLESCENTS IN IVORY COAST: AN ESTIMATE BASED ON DATA FROM A MUTUAL HEALTH INSURANCE COMPANY



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## BACKGROUND

❑ Epilepsy is a particularly common neurological disorder in developing countries.

❑ Antiepileptic drugs play an important role in the control of this disease.

❑ **Objective** :To describe the use of antiepileptic drugs in children and adolescents from Ivory Coast.

## METHODS

❑ Retrospective analysis of health care consumption data from the mutual insurance company for civil servants and agents of the State of Côte d'Ivoire (MUGEFCI).

❑ Drug use was estimated based on reimbursements for care in 2017 and 2018.

❑ Sample consisted of Children and adolescents from families of civil servants and agents of the state of Ivory coast,

❑ Main parameters measured :

- number of prevalent users in 2017 and 2018,
- number of incident users
- number of official packaging units of drug used
- expenditures estimated for each drug based on prices in private pharmacies.

## RESULT

### Sociodemographic characteristics

- ❑ 1212 people aged 1 to 18 years
- ❑ Average age of 10 ± 4.82 years
- ❑ Male= 59.32%
- ❑ Number of prevalent users = 808 in 2017 and 790 in 2018
- ❑ Number of incident users = 404 in 2018

Tab.1: Age and sex of users

| AGE GROUP | 2017      |            | 2018       |           |
|-----------|-----------|------------|------------|-----------|
|           | MALE      | FEMALE     | MALE       | FEMALE    |
| [0-5[     | 89(18,9)  | 72(21,4)   | 92(20,4)   | 68(20)    |
| [5-10[    | 158(33,5) | 98(29,1)   | 141(31,3)  | 105(30,9) |
| [10-15[   | 144(30,6) | 79(23,4)   | 138(30,7)  | 84(24,7)  |
| [15-19[   | 80(17,0)  | 88(26,1)   | 79(17,6)   | 83(24,4)  |
| TOTAL     | 471(100)  | 337(100,0) | 450(100,0) | 340(100)  |

## CONCLUSION

❑ Overall use of antiepileptic drugs was increasing in the study population.

❑ Latest generation antiepileptics were expensive and poorly used

### Drugs used and expenditures

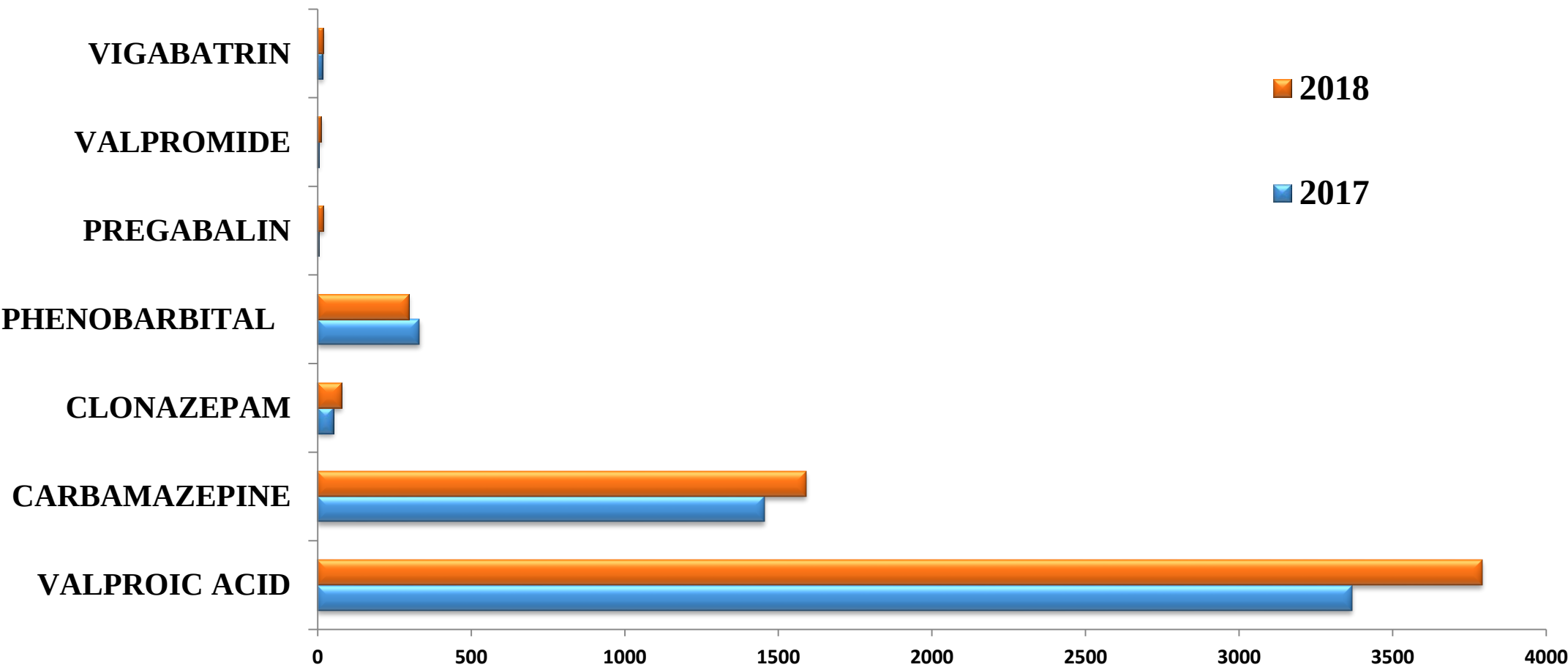


Fig 1 : Number of "boxes" of antiepileptic drug used

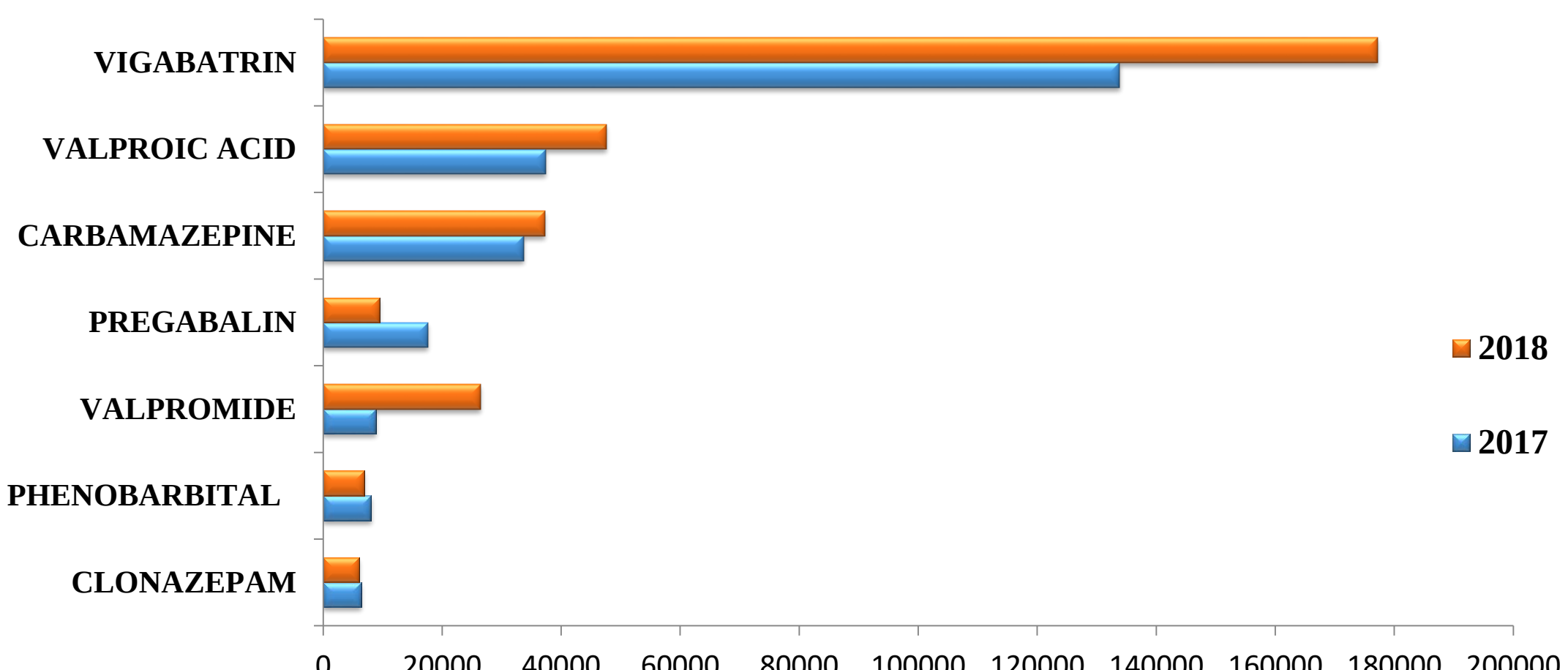


Fig 2 : Average annual expenditures per person ( in XOF, 1 XOF= 0,00152449 Eur)

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