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► **To cite this version:**

Thierno Mamadou Millimono, Alioune Camara, David Cherif, Gustave Mabiama, Pierre-Marie Preux, et al.. Neuropsychological disorders and associated factors in older people in Guinea. International Conference on Frailty and Sarcopenia Research 2023, Mar 2023, TOULOUSE (FRANCE), France. hal-04062479

**HAL Id: hal-04062479**

**<https://unilim.hal.science/hal-04062479>**

Submitted on 7 Apr 2023

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# Neuropsychological disorders and associated factors in older people in Guinea

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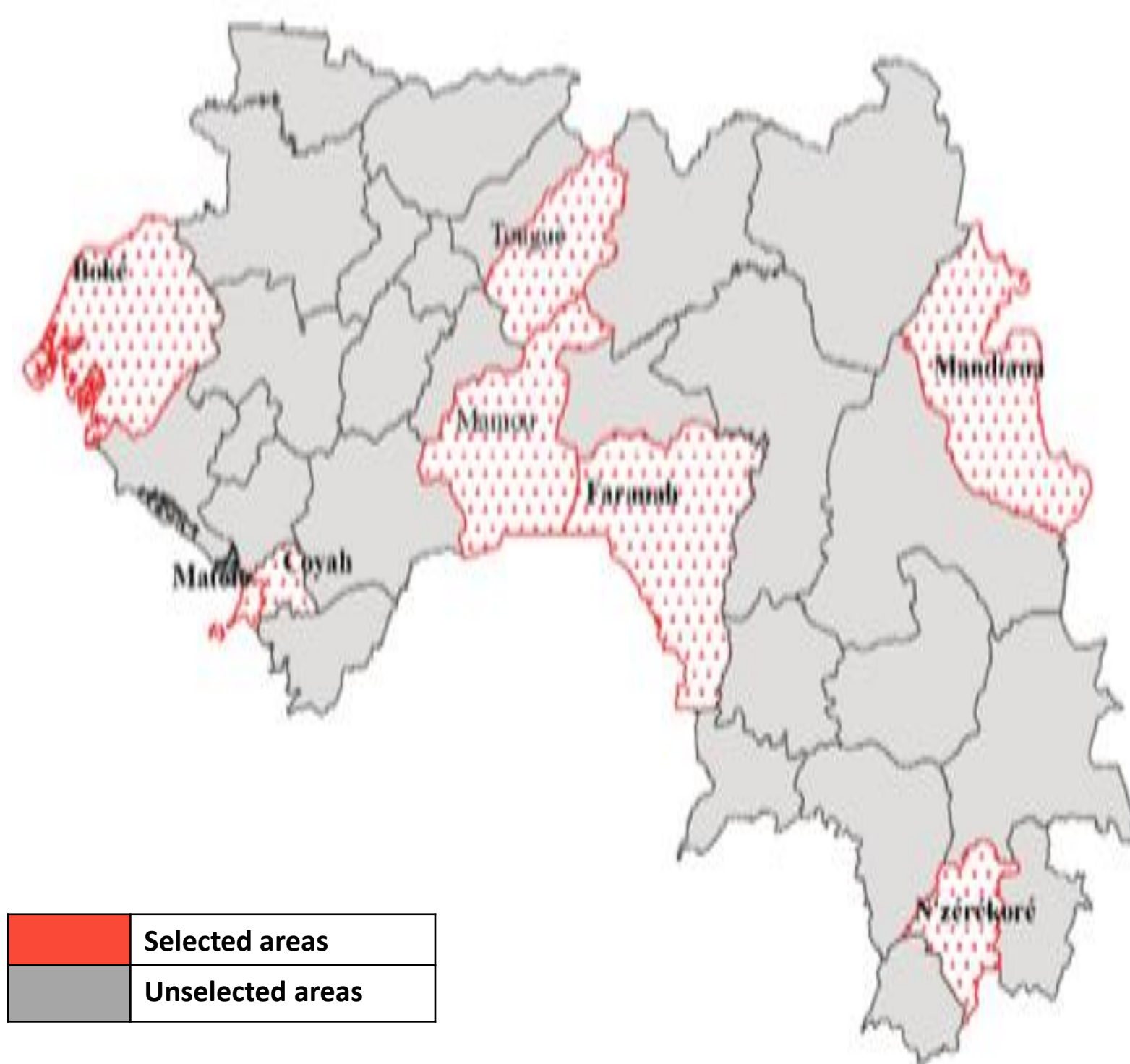
## Introduction

Neuropsychological disorders in the elderly represent a major societal concern, characterized by cognitive deterioration accompanying cerebral ageing or neurodegenerative or vascular neurological pathologies.

## Objective

The main objective of our study was to contribute to a better understanding of neuropsychological disorders in people aged 60 and over in Guinea.

## Methods



Continent : Africa  
Country: **Guinea Conakry**  
Administrative regions : 8  
Population : 10 503 132 ;  
**Elderly : 603 706** (RGPH2014)

**Design** : Cross-sectional study

**Collection date** : February - April 2021.

**Population** : 1680 with age 60 years (urban and rural area).

**Neuropsychological disorders** : depressive symptomatology and Mini Mental State Examination.

**Logistic regression** : identify factors associated with neuropsychological disorders.

*Student's t-test, Mann-Whitney test and Chi2; Significant level of 5%.*

**Approval** : CNERS Guinea.

## Results

### Sociodemographic and health characteristics

Sociodemographic and health variables	Description (n=1698)
Age(mean ± SD)	71.6 ± 9.4
Male sex, n (%)	1079 (63.5)
Rural residence, n (%)	1097 (64.6)
Married, n (%)	1289 (75.9)
No active, n (%)	872 (51.4)
Undernutrition (<18.5), n (%)	247 (14.5)
Obesity (≥ 30), n (%)	96 (5.7)
Neuropsychological disorders (Yes), n (%)	1118 (65.8)
Depressive symptomatology, n (%)	635 (37.4)

### Factors associated with neuropsychological disorders in elderly

Cognitive impairment	Odds ratio	CI 95%	p-value
60-69 years	1.38	1.11-1.72	0.004
Married	1.47	1.12-1.93	0.005
No active	1.43	1.13-1.80	0.003
Normal (BMI)	1.63	1.19-2.24	0.002
Overweight (BMI)	1.69	1.16-2.48	0.006
Obesity (BMI)	1.74	1.03-2.95	0.039
Depressive symptoms			
Married	1.56	1.17-2.08	0.003
No active	2.03	1.55-2.66	<0.0001
Urban residence	4.98	3.83-6.49	<0.0001
Obesity (BMI)	2.28	1.28-4.06	0.005

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## Conclusion

This is the first study describing the high prevalence of neuropsychological disorders and depressive symptoms in the elderly and the associated factors. It is therefore necessary to consider a screening plan in order to facilitate the management of these disorders which weaken the lives of our elderly.