

# Profile of high-volume antibiotic prescribers, a population-based study from the French National Health Data System, 2023-2024

H. DESMARS (1,2), AI. LECUYER (1,3), F. COUSTILLERES (4,5), G. BERAUD (6,7), E. LAURENT (1,3), C. CARVALHO (4,5), L. GRAMMATICO-GUILLON (1,2,8)

1. Epidemiology Unit for Clinical Data in Centre-Val de Loire, Tours teaching Hospital, France
2. Faculty of Medicine, University of Tours, France
3. Research team EA 7505 "Education, Ethics, Health", University of Tours, France
4. Regional Antibiotic Therapy Centre in Centre-Val de Loire, France
5. Infectious and Tropical Diseases Department, Tours Teaching Hospital, France
6. Infectious and Tropical Diseases Department, Orléans Teaching Hospital, France
7. Interdisciplinary Laboratory for Innovation and Research in Health, University of Orléans, France
8. Research team INSERM MAVIHe, University of Tours, France

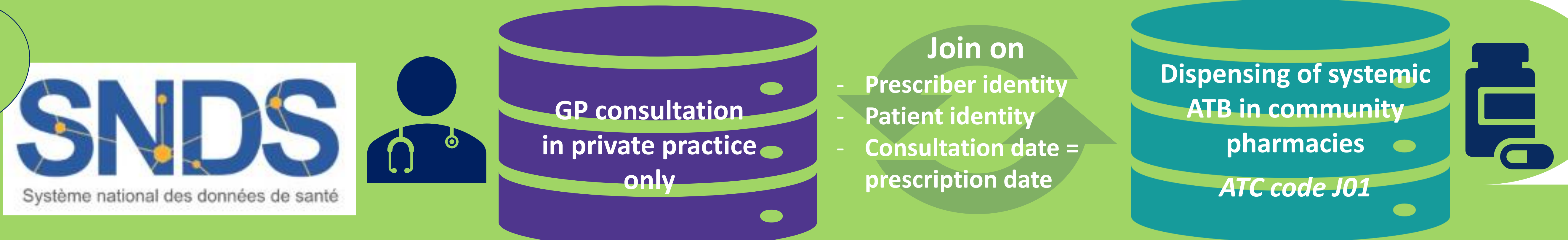
## INTRODUCTION

- Prescription monitoring is part of the strategy to fight antibiotic resistance
- General practitioners (GPs) prescribe ¾ of antibiotics (ATB)

### Objectives :

- ➔ To describe antibiotic prescribing in general practice in one French region in 2023–2024
- ➔ To analyze factors associated with “high” prescription rates

## METHODS



**High prescriber** if one GP's systemic ATB prescription rate was superior to the 3rd quartile of the rate among all GPs in the region i.e. if > 11.5% of the GP's consultations resulted in an ATB prescription in 2023–2024

## RESULTS

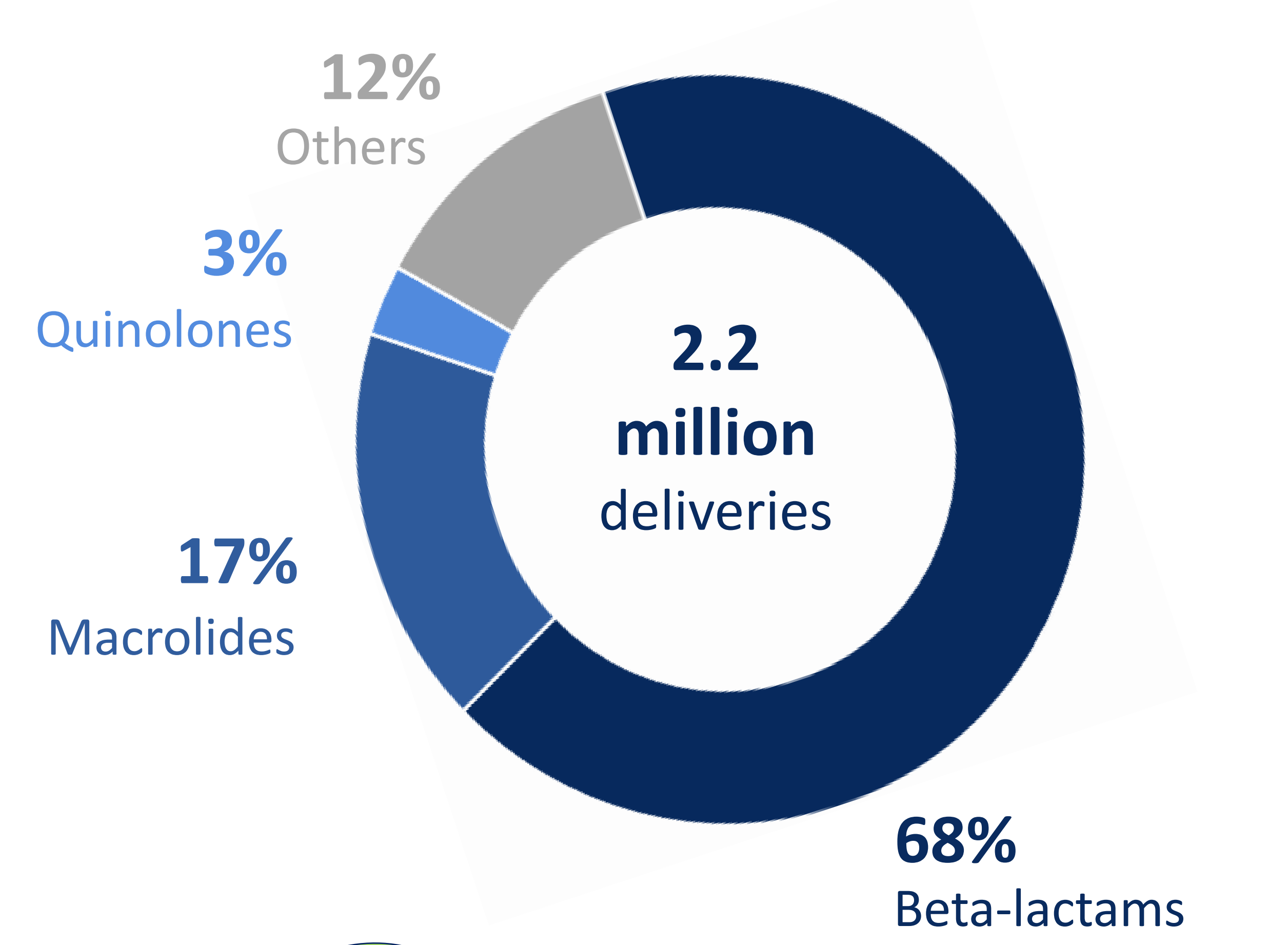
**1,936 GPs\* INCLUDED** \* General practitioners practicing exclusively in private practice.

55.5% Male	Average age: 53 years old ±12	≥20 years of professional experience: 36%	Average distance to the nearest emergency department: 10.3 km ±10.2
------------	-------------------------------	---	---

**4,042,774 PATIENTS**  
24.6 % of patients were prescribed ATB

**15,179,384 CONSULTATIONS**  
10.1 % of consultations led to a prescription for ATB

## MAIN CLASSES OF ATB DISPENSED



## FACTORS ASSOCIATED WITH THE 491 “HIGH PRESCRIBERS”



## DISCUSSION

- **High prescribers:** senior GPs, located far from emergency departments, in deprived areas; with a patient base predominantly male or of young children, with few comorbidities or precarious conditions;
- Regional disparities.
- ATB: further analyses required to study spectrum, duration, adequacy.

➔ These results could allow the Regional Antibiotic Therapy Centre to promote appropriate use among high prescribers with target interventions.

