

Salmonella spp. isolates in Portugal, 2024

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P136



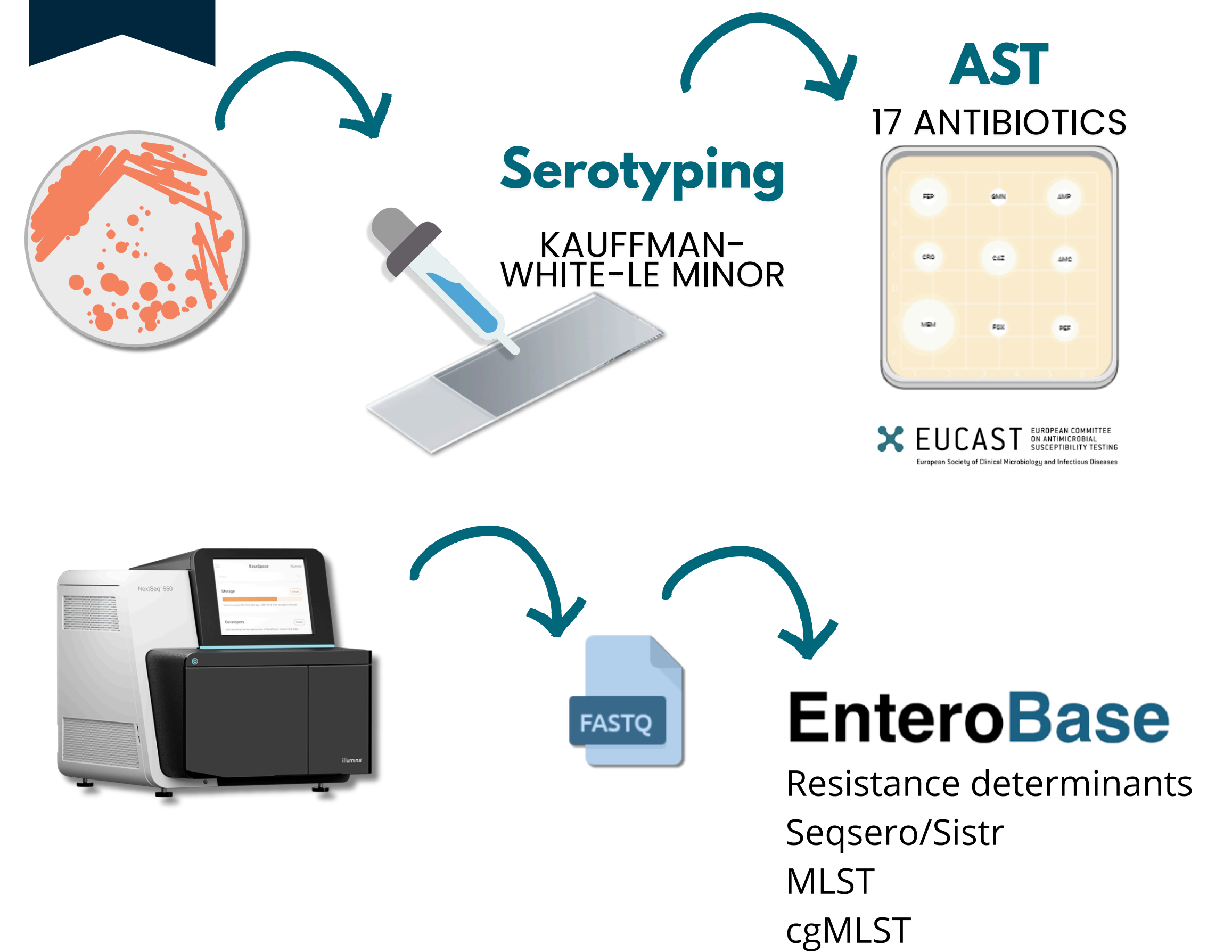
1 Introduction

Salmonella spp. remains one of the main causes of gastrointestinal infections in the European Union, only preceded by *Campylobacter* spp. In 2023, there were 77,486 confirmed cases of human salmonellosis in the European Union, and *S. Enteritidis*, *S. Typhimurium* and its monophasic variant remained the most common serovars.

Understanding the genetic and phenotypic characteristics of *Salmonella* isolates is essential for tracking sources of contamination, monitoring antimicrobial resistance, and improving outbreak response.

Evaluation of *Salmonella* spp. isolates circulating in Portugal in 2024

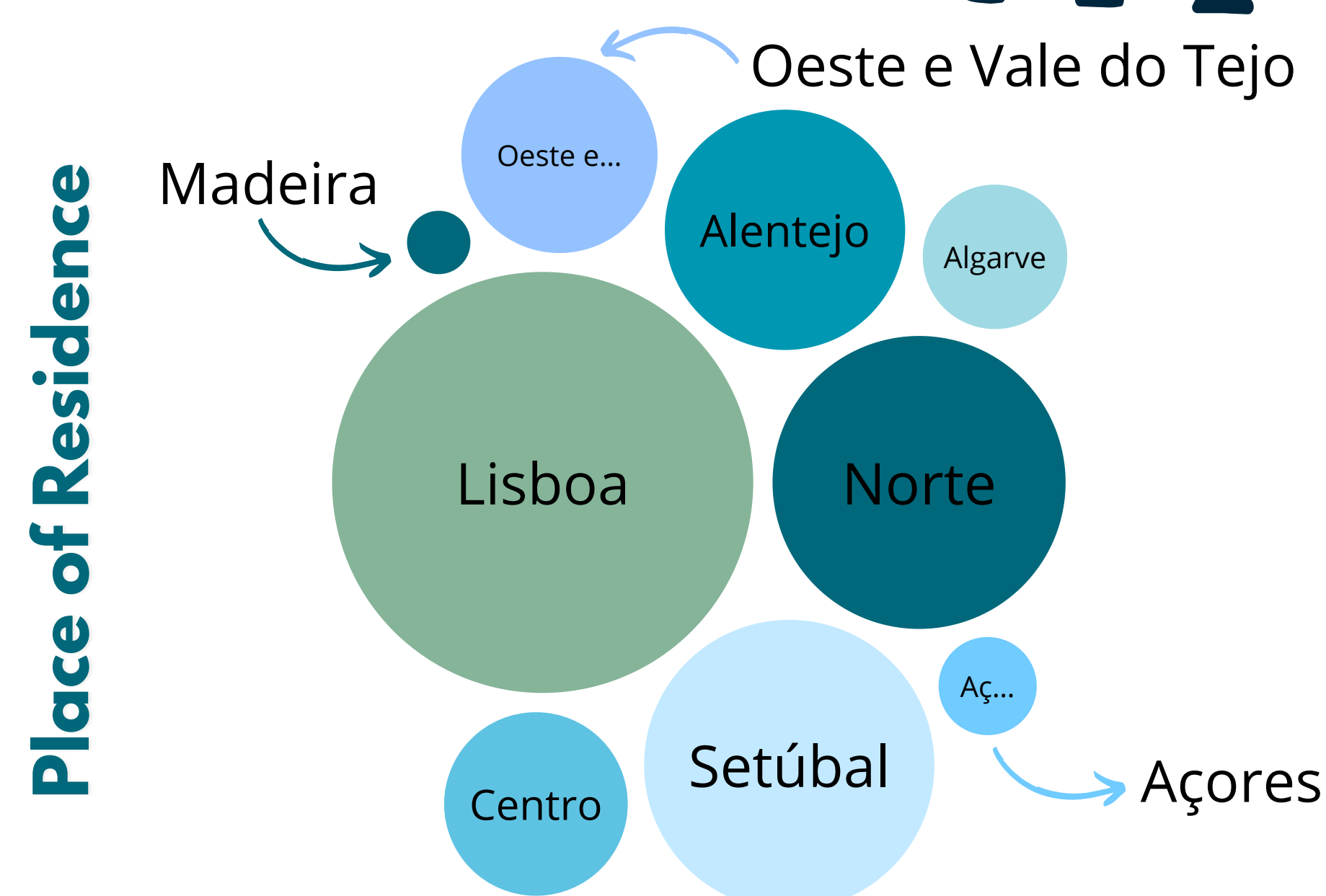
2 Methodology



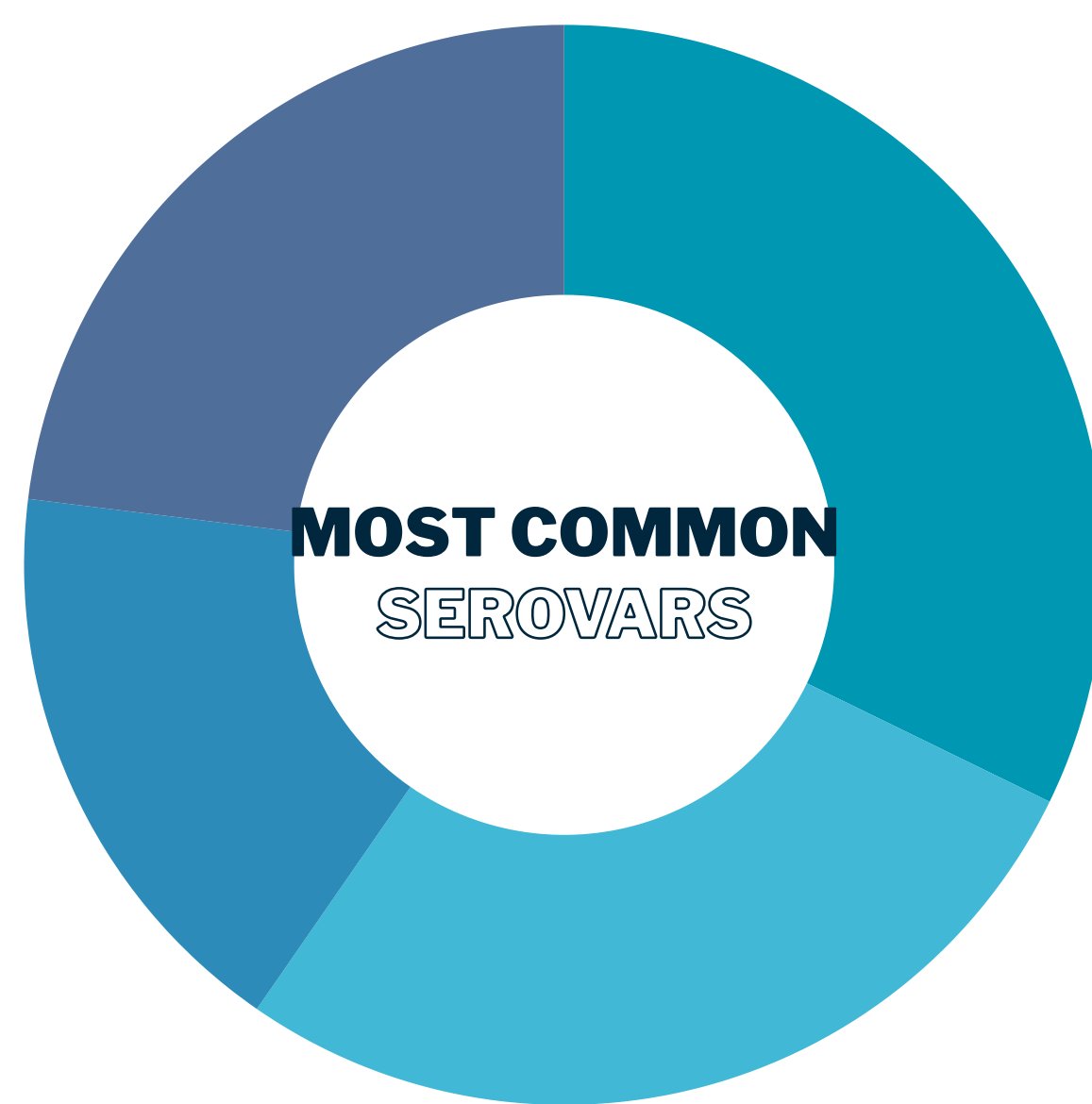
3 Results

Total number of **873** isolates

40% increase comparing to 2023



● Monophasic Typhimurium 1.4.[5].12:i:-
● Enteritidis ● Typhimurium ● Others



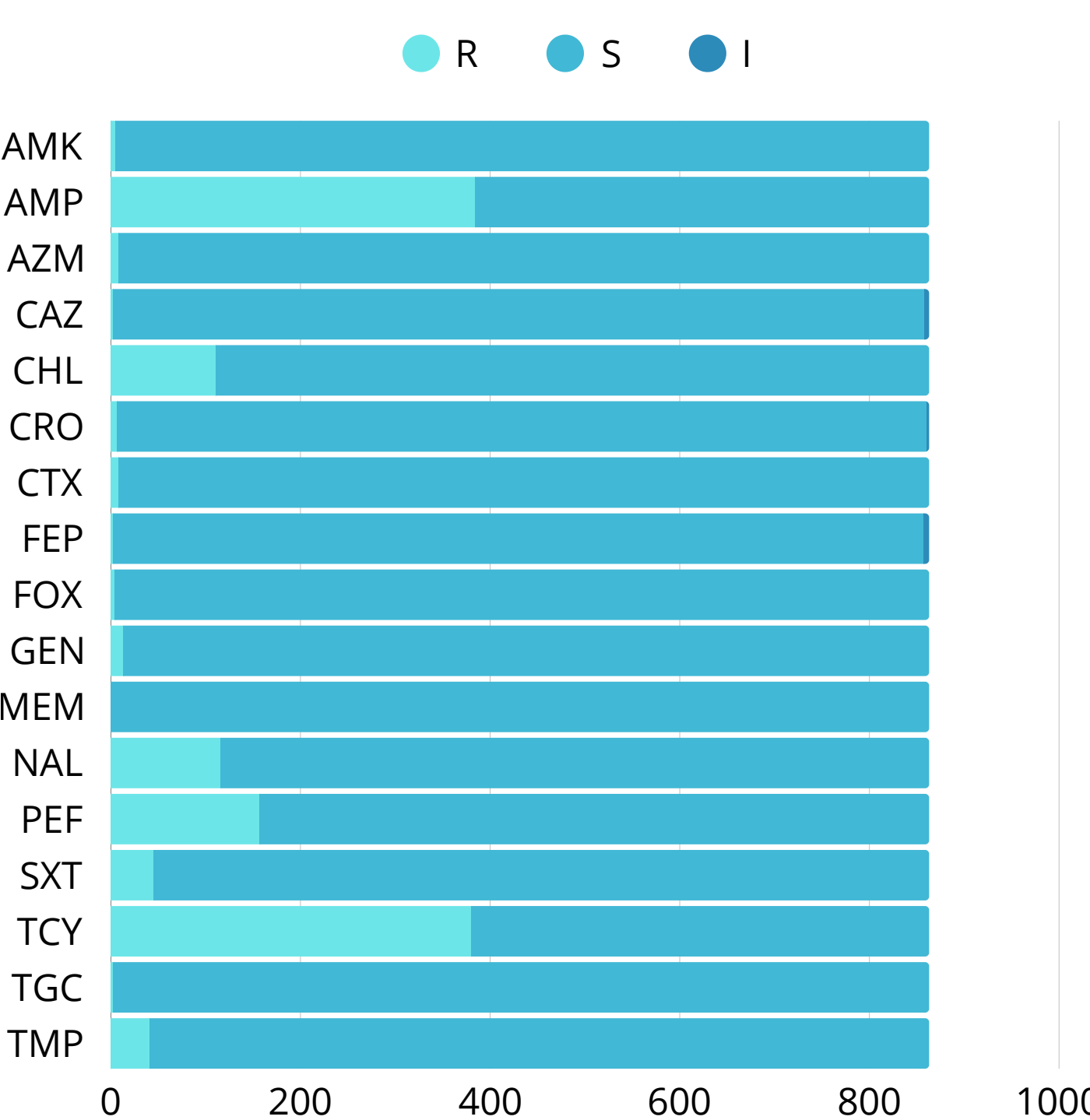
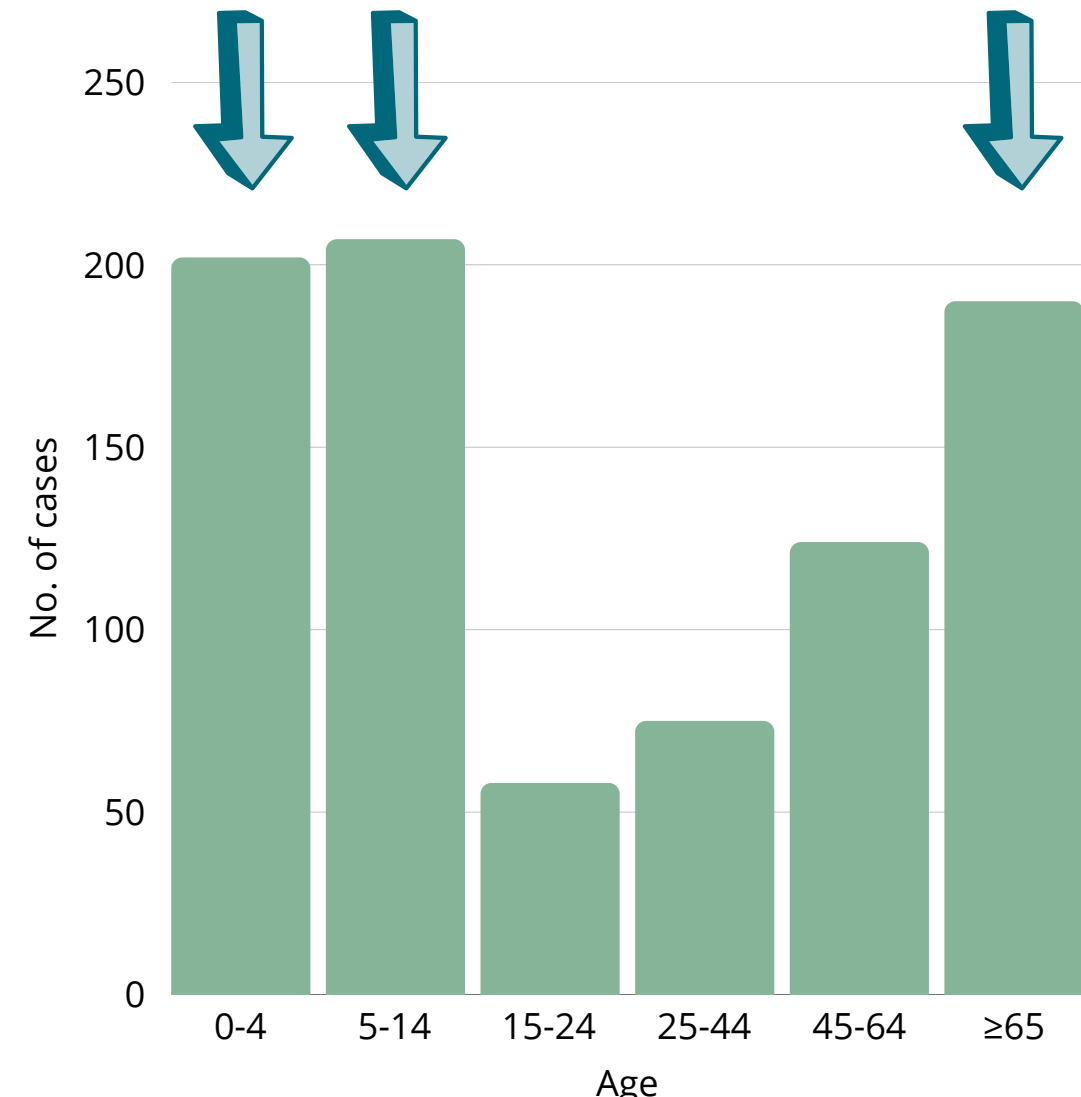
19.5% MDR

- Typhimurium 55.4%
- Monophasic variant 31.1%

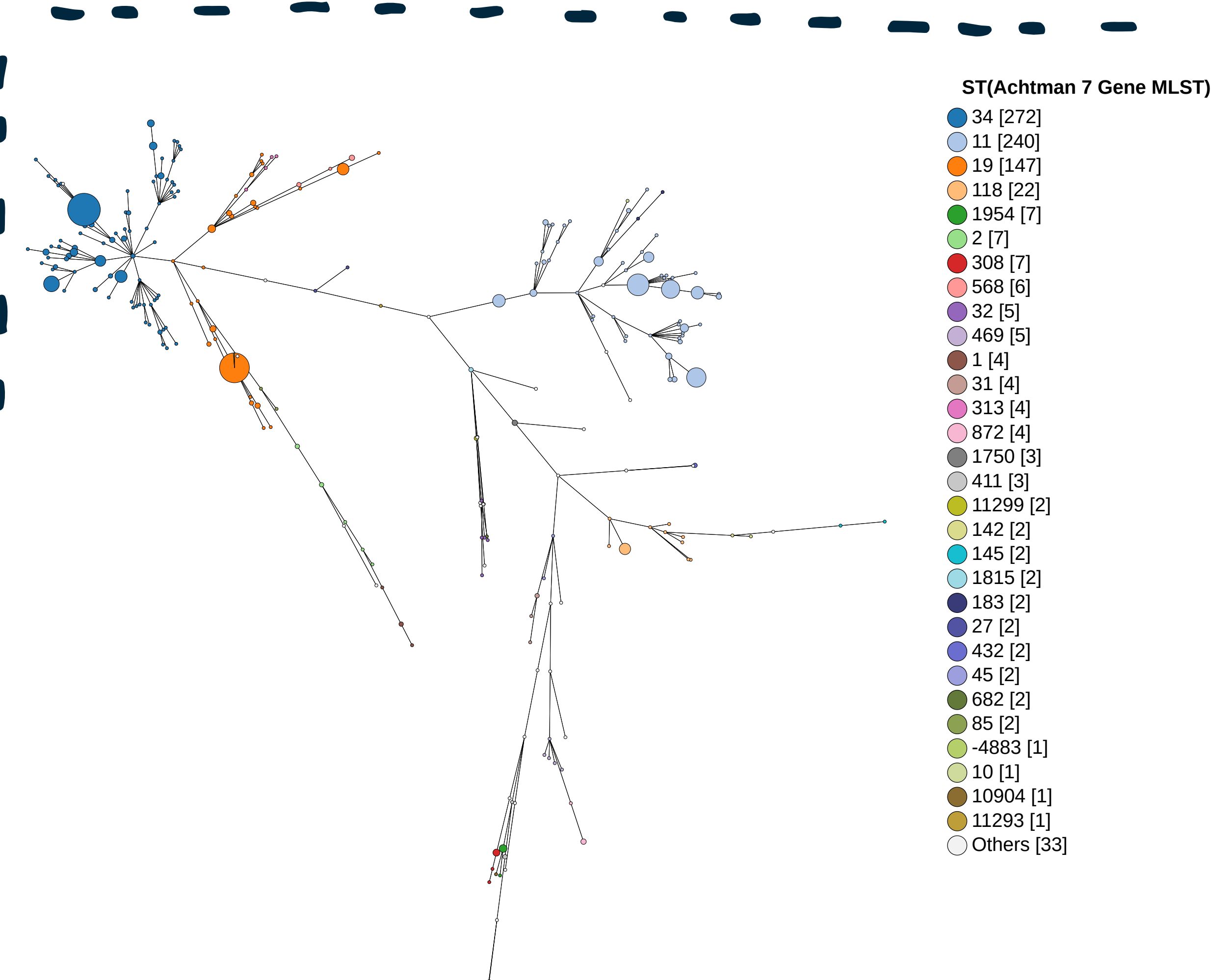
ESBL

- bla*_{OXA-1} Stanley + *bla*_{OXA-48}
- bla*_{DHA-1} Newport
- bla*_{CTX-M-9} MonophasicTyphimurium
- bla*_{CTX-M-65} MonophasicTyphimurium

Affecting mostly children, infants and the elderly



AMK: Amikacin; AMP: Ampicillin; AZM: Azithromycin; CAZ: Ceftazidime; CHL: Chloramphenicol; CRO: Ceftriaxone; CTX: Cefotaxime; FEP: Cefepime; FOX: Cefoxitin; GEN: Gentamicin; MEM: Meropenem; NAL: Nalidixic Acid; PEF: Pefloxacin; SXT: Sulphamethoxazole+Trimethoprim; TCY: Tetracycline; TGC: Tigecycline; TMP: Trimethoprim.



4 Conclusion

The considerable increase in cases was intrinsically connected to several clusters of the most frequent serovars, most specially of MDR isolates. To our knowledge, this was the first time a carbapenemase producer *Salmonella*, isolated from a human clinical sample, was detected in Portugal. *Salmonella* continued laboratory surveillance and antimicrobial resistance monitoring are essential for disease prevention and control.

