



Global
**Antibiotic
Resistance**
Partnership

CDDEP THE CENTER FOR
Disease Dynamics,
Economics & Policy
WASHINGTON DC • NEW DELHI

NASF public sector data and initiatives

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NASF surveillance

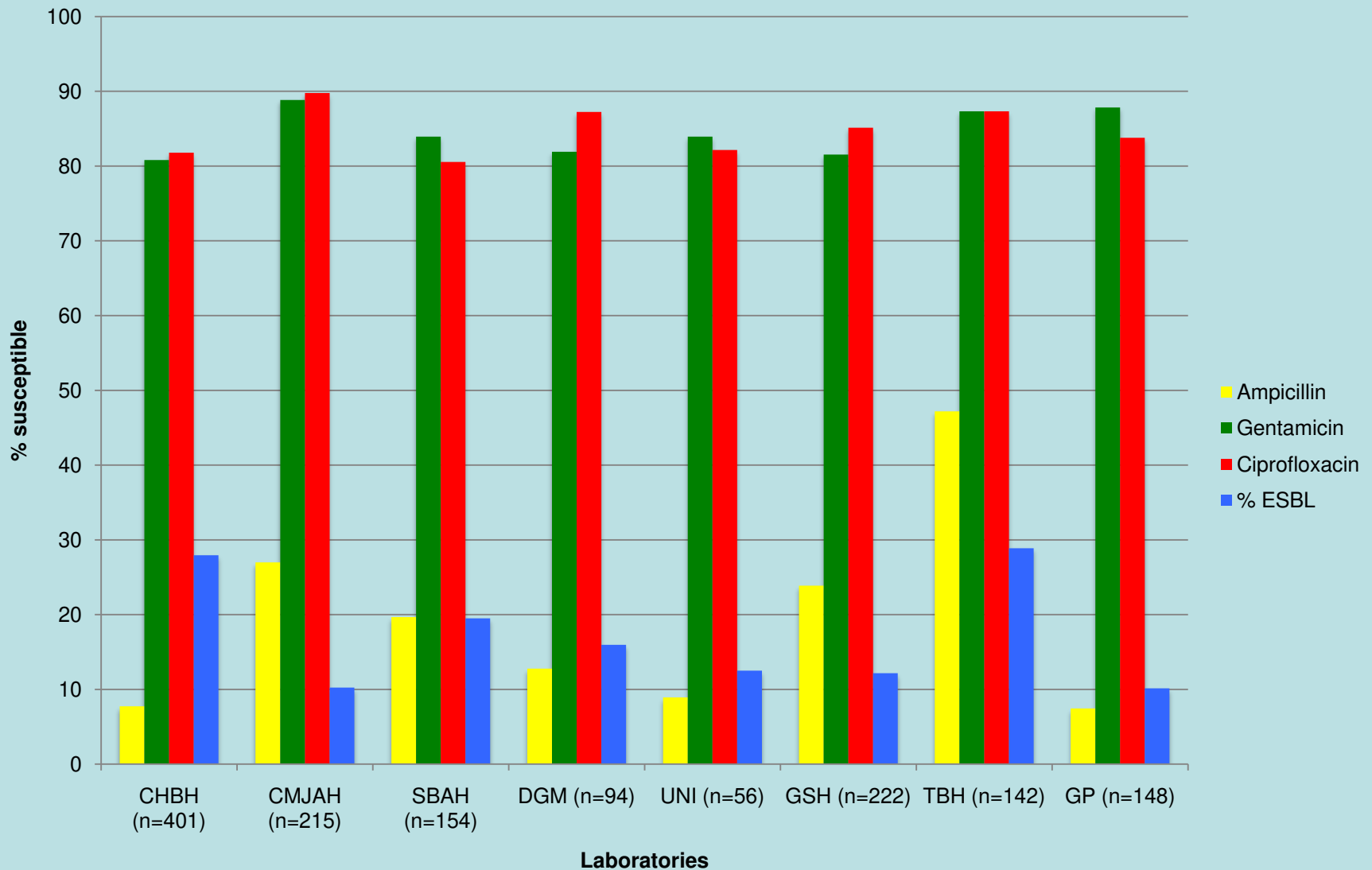
- Antimicrobial resistance patterns on isolates from blood and cerebro-spinal fluid
- Public sector/NHLS laboratories
- National basis
- 2002-2008
- Information disseminated via publications in local journals or via website

Methods

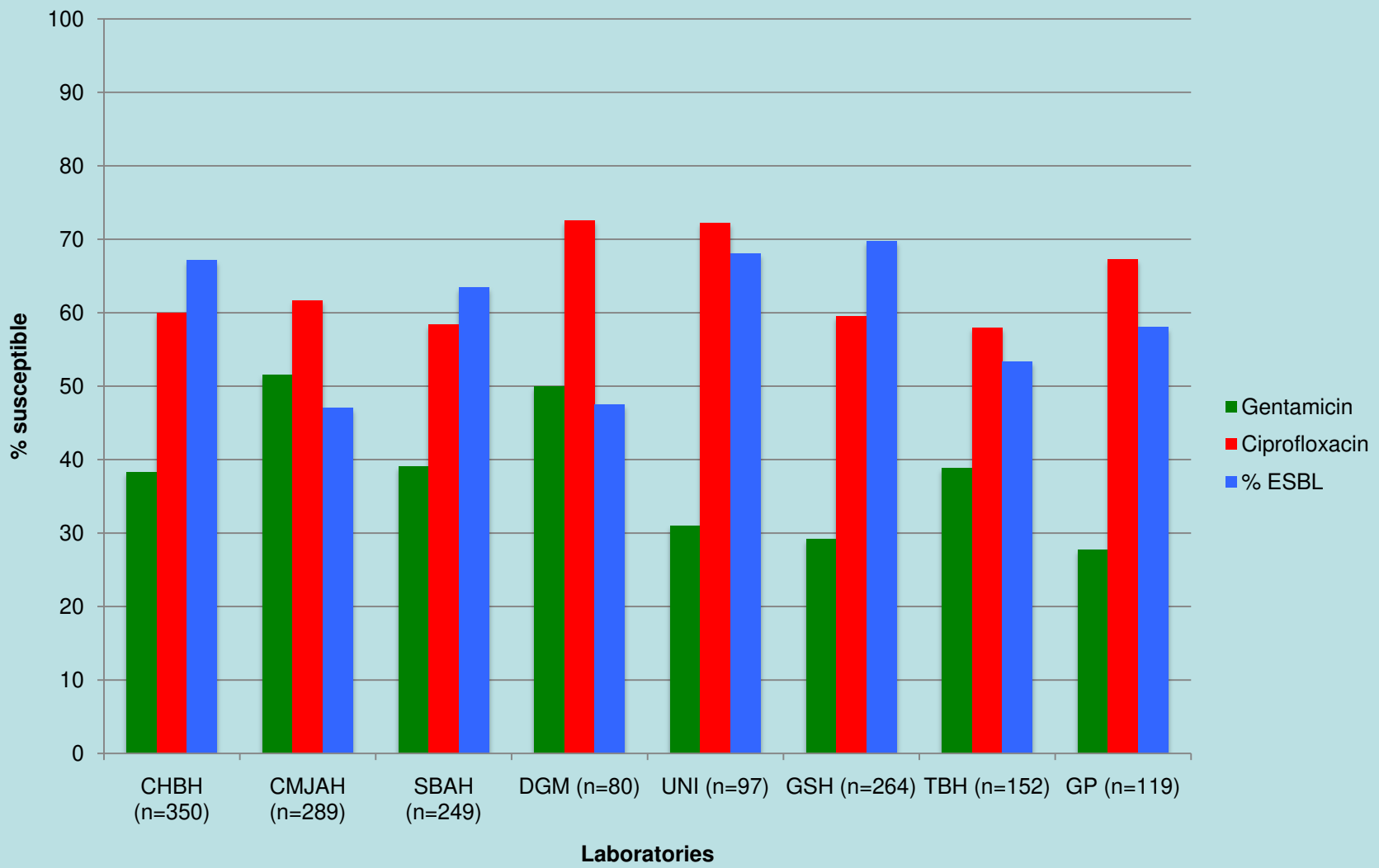
- Voluntary participation of laboratories, chiefly from academic centres
- Decentralised data collection at each laboratory under the supervision of microbiologist, with checking and analysis of all data by national co-ordinator, supported by editorial committee
- According to CLSI guidelines
 - No duplicates
 - Minimum of 30 isolates per species
 - No selective testing

Analysis and Presentation of Cumulative Antimicrobial Susceptibility Test Data: approved guideline- Third edition. M39-A3. 2009

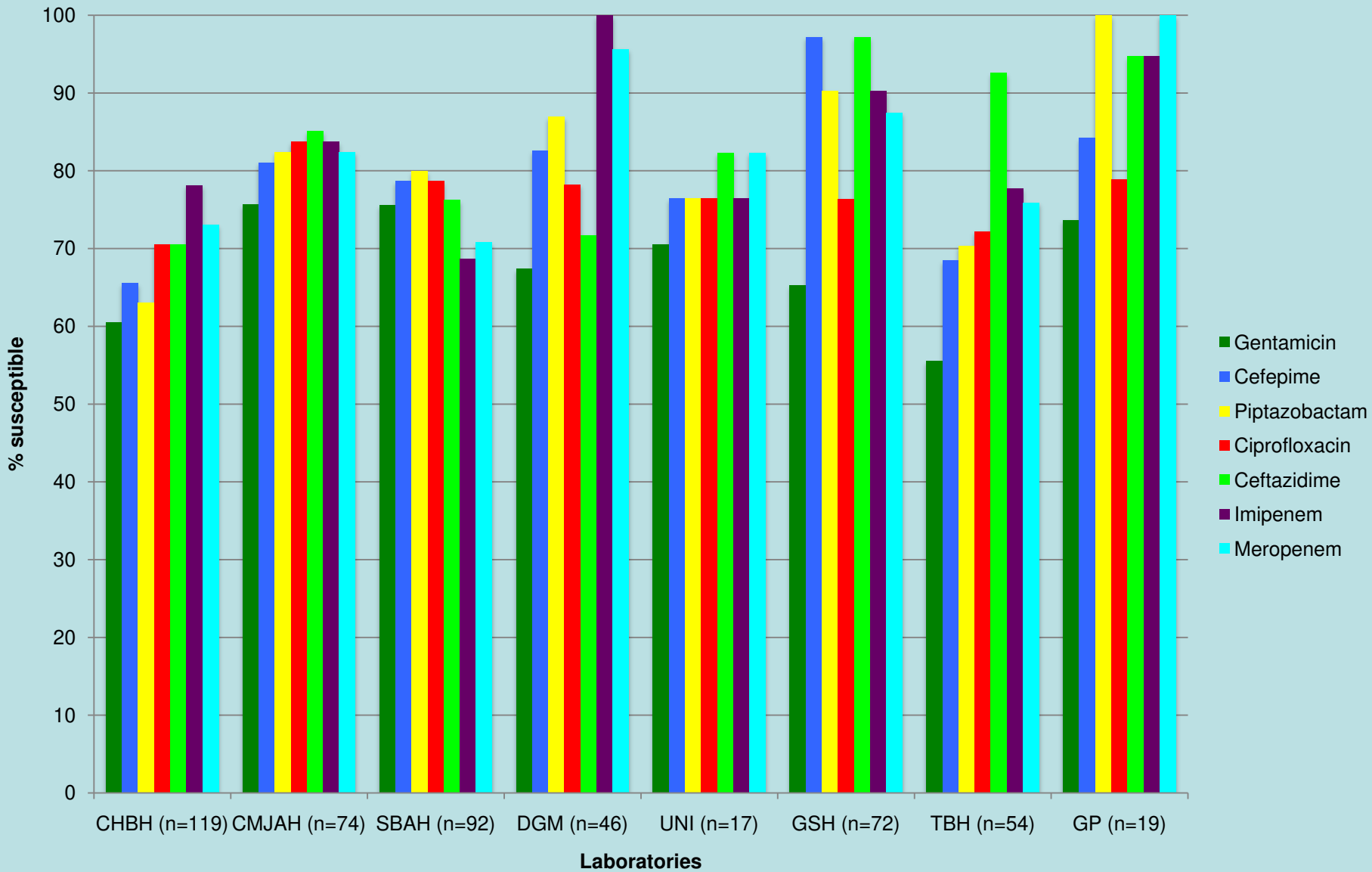
Susceptibility of *Escherichia coli* from blood culture



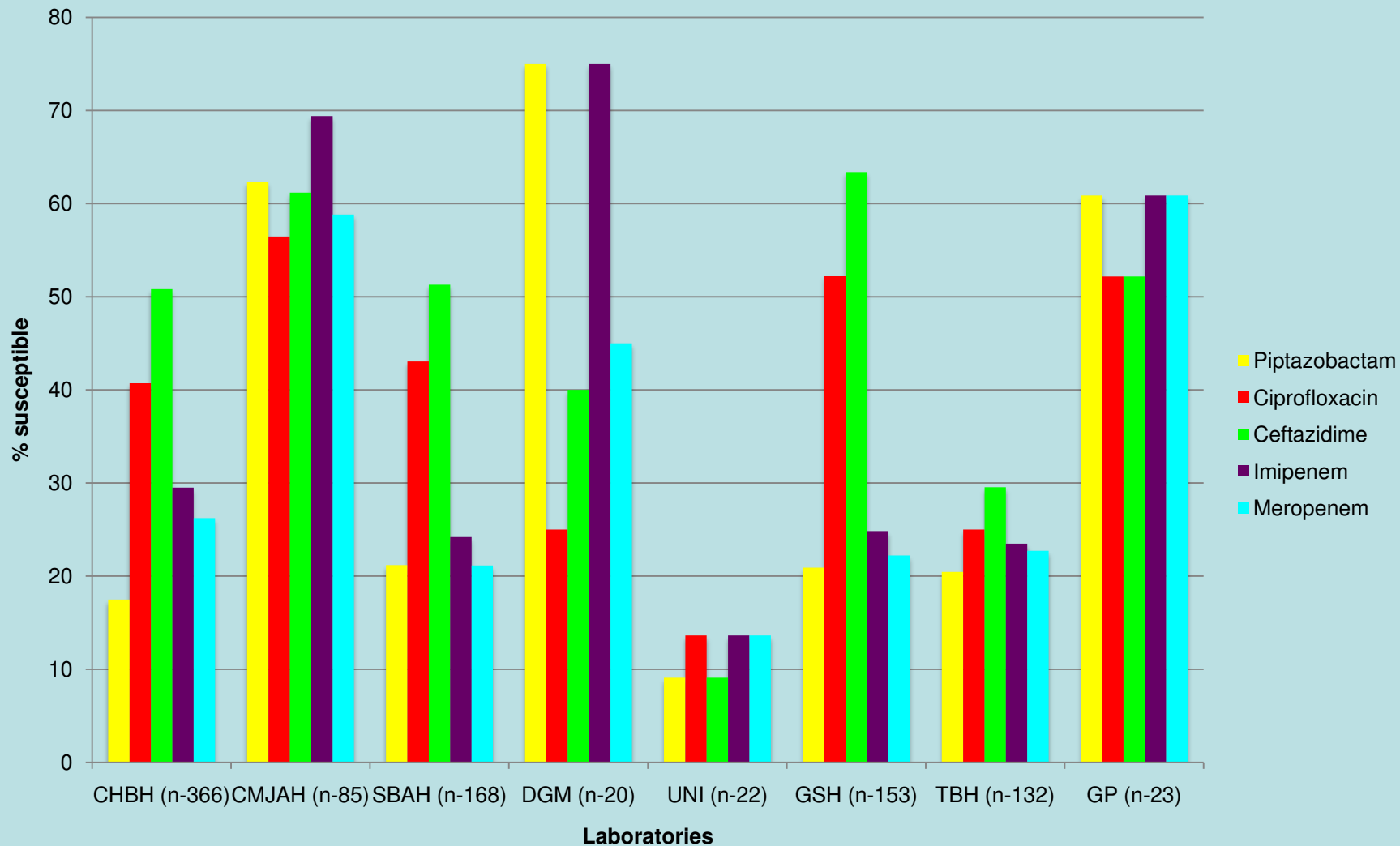
Susceptibility of *Klebsiella pneumoniae* from blood culture



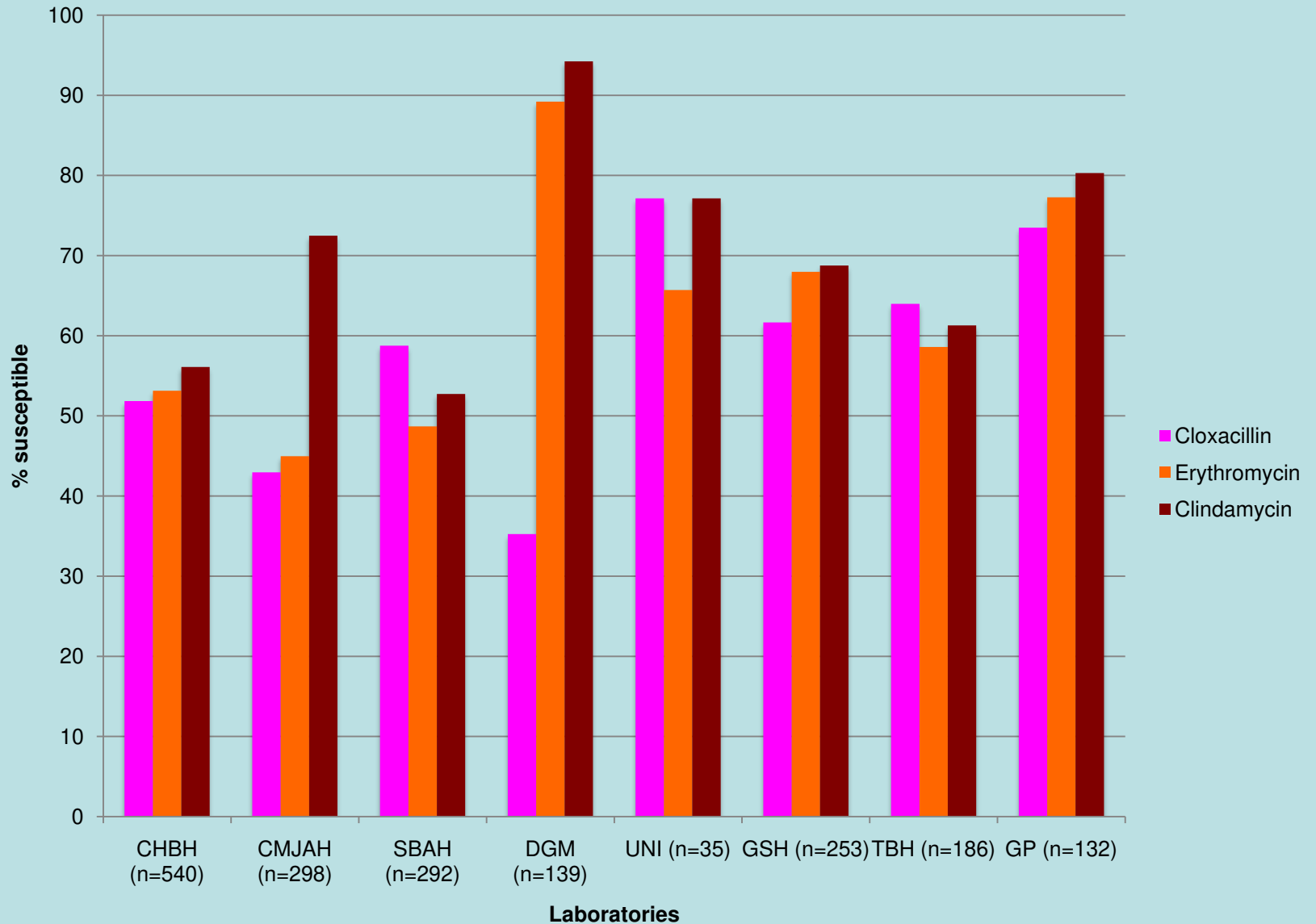
Susceptibility of *Pseudomonas aeruginosa* from blood culture



Susceptibility of *Acinetobacter baumannii* complex from blood culture



Susceptibility of *Staphylococcus aureus* from blood



Limitations

- Dependent on accurate identification and antimicrobial susceptibility testing at laboratory level
- IT system
- Laboratory based surveillance

In the future

Ongoing efforts for quality assurance

Regular review of data items and methods of data retrieval

Include statistics

- 95% confidence intervals to quantify precision of estimates
- Determine statistical significance of differences between 2 rates

Conclusion

NASF public sector antimicrobial susceptibility data

- Monitors national and local resistance patterns
- Supplies valuable information provided due recognition of its limitations
- Thanks to all participating laboratories and to editorial committee