

BSI Data Report

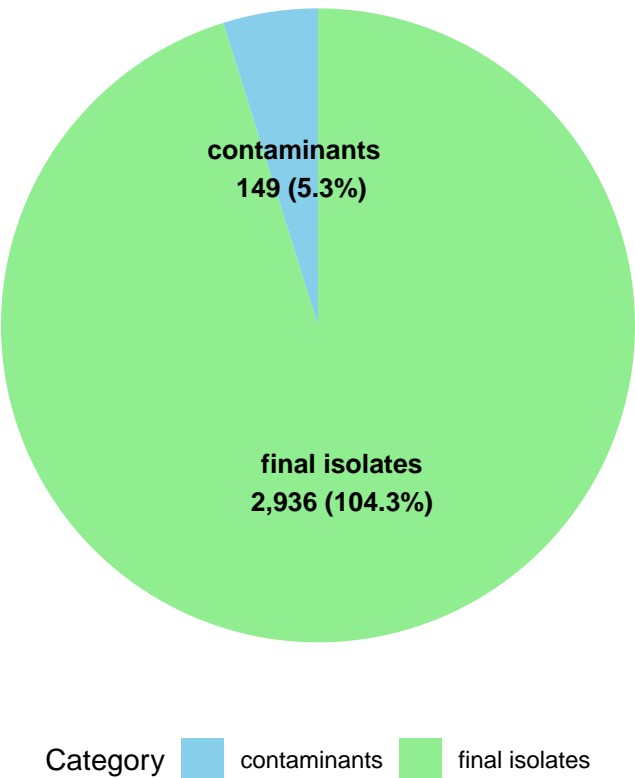
Table of contents

| | | |
|----------|---|----------|
| 1 | Summary | 2 |
| 1.1 | Data cleaning and pre-processing | 2 |
| 1.2 | Health care facilities | 2 |
| 2 | Patient Demographics | 3 |
| 3 | Episodes | 4 |
| 3.1 | Type of episodes | 4 |
| 3.2 | Composition Episode Type | 4 |
| 3.3 | Infection type | 4 |
| 4 | Context (Specialty Analysis) | 5 |
| 4.1 | Specialty Distribution | 5 |
| 4.2 | Number of Specialties per Patient and Episode | 5 |
| 4.3 | Top 20 Pathogen Distribution by Specialty | 5 |
| 5 | Antibiograms | 6 |
| 6 | Hospital Analysis | 7 |
| 6.1 | Hospital Summary | 7 |
| 6.2 | Ward-Level Episode Analysis | 7 |

1 Summary

1.1 Data cleaning and pre-processing

The raw data on blood culture and patient data contained a total of ****2,816**** blood culture isolates from ****5**** health care facilities. After removing contaminants (common commensals occurring just once per patient in any 3 day period), a total of ****2,936**** final isolates were identified.



1.2 Health care facilities

****5**** health care facilities were included in the study. ****2,816**** positive blood cultures were included, with ****149**** identified as contaminants.

2 Patient Demographics

The raw dataset included blood cultures from **1,096** patients. Demographic data on these patients is shown below.

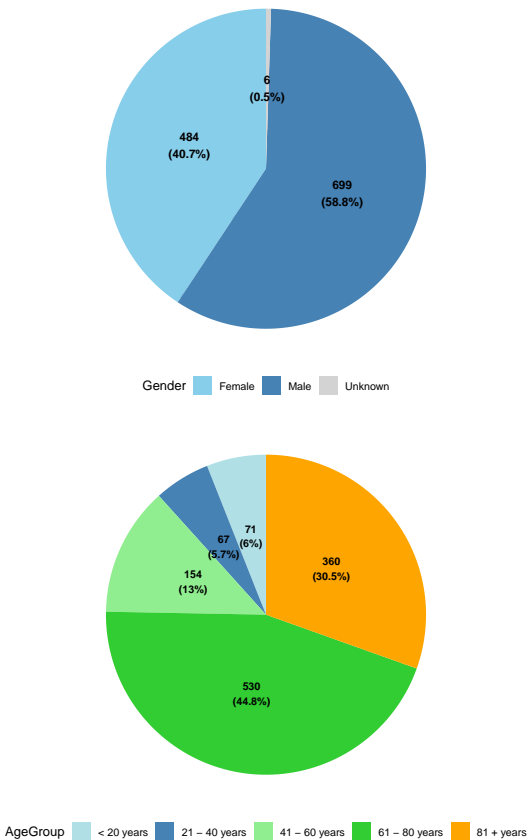


Table 1: Gender Distribution

| Gender | Patients (n) | Percentage (%) |
|---------|--------------|----------------|
| Female | 484 | 40.7 |
| Male | 699 | 58.8 |
| Unknown | 6 | 0.5 |

Table 2: Age Distribution

| Age group | Patients (n) | Percentage (%) |
|---------------|--------------|----------------|
| < 20 years | 71 | 6.0 |
| 21 - 40 years | 67 | 5.7 |
| 41 - 60 years | 154 | 13.0 |
| 61 - 80 years | 530 | 44.8 |
| 81 + years | 360 | 30.5 |

The mean (median) age of the study population was **66.54** (**73**).

3 Episodes

3.1 Type of episodes

3.2 Composition Episode Type

3.2.1 Monomicrobial Episodes

3.2.2 Polymicrobial Episodes

3.3 Infection type

Episodes view requires patient, isolate, resistance tables and computed episodes.

4 Context (Specialty Analysis)

4.1 Specialty Distribution

4.2 Number of Specialties per Patient and Episode

4.3 Top 20 Pathogen Distribution by Specialty

Context view requires ward/specialty columns (e.g., UnitSpecialtyShort or PatientSpecialty) in patient data.

5 Antibigrams

Required columns (antibiotic_name, sir_value) not found in resistance data.

6 Hospital Analysis

6.1 Hospital Summary

6.2 Ward-Level Episode Analysis

Hospital analysis requires EHRBSI, patient, isolate, and res tables with episodes computed.

Hospital-specific filtering was not applied for this report.

Report generated: 2025-10-24 15:15:26.441675

Country/Dataset: MT