EXTENSIVELY AND PANDRUG RESISTANT PSEUDOMONAS AERUGINOSA INFECTIONS: ANALYSIS AND OUTCOMES
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OBJECTIVES
Identify and describe extensively-drug resistant (XDR) and pandrug resistant (PDR) Pseudomonas aeruginosa (PSA) infections, their management and outcomes.

MATERIALS AND METHODS

Inclusion criteria
- Positive cultures in diagnostic samples for XDR and PDR PSA.
- Directed antibiotic treatment with:
  - Systemic
  - Inhaled
  - Intratracheal
  - OR combination

Variables
- Charlson comorbidity index (CCI) at the beginning of hospitalization.
- Previous antibiotic treatment
- Previous hospitalization
- Patients transferred from another hospital/sociosanitary center.
- PSA strains characterization
- Antibiotic treatment

Endpoints
- Clinical/microbiological resolution
  - OR
  - Death

RESULTS

87 different patients = 155 infections
Median age = 67 years (IQR 50-75)
76% males

<table>
<thead>
<tr>
<th>CCI</th>
<th>3 (IQR: 1-5)</th>
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<tbody>
<tr>
<td>Previous hospitalization</td>
<td>43.9%</td>
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<tr>
<td>Previous antibiotics</td>
<td>42.4%</td>
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<td>Patients from another hospital/sociosanitary centre</td>
<td>33%</td>
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<td>Time of hospitalization (days)</td>
<td>60 (IQR: 26-129)</td>
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<td>Clinical resolution</td>
<td>75.5%</td>
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<td>Microbiological resolution</td>
<td>54.2%</td>
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<td>Death</td>
<td>19.4%</td>
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PSA characterization
- Meropenem sensitivity
  - Sensitive 20%
  - Intermediate 33%
  - Resistant 47%
- 5.8% PSA PDR strains
- 17.4% colistin resistant strains

Antibiotic treatment
- Intratracheal antibiotics: 4%
- Inhaled antibiotics: 1%
- Combined treatment: 27.1%

CONCLUSIONS
- This kind of infections were produced in elder population with moderate CCI.
- High percentage of meropenem resistant strains were found.
- High rate of clinical resolution was observed.

Conflict of interest: nothing to disclose

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