Disaster management in hospital pharmacies is poorly studied and trained. This study assesses the benefit of full-scale simulations to improve hospitals pharmacists’ disaster preparedness.

**Rationale**

This study highlights the value of full-scale disaster simulations for hospital pharmacies. The number of correct actions increased significantly. Globally, full-scale simulations have improved the preparedness of the hospital pharmacies involved and promoted staff awareness.

**Method**

**Scenarios**

Multidisciplinary working group: creation + validation of scenarios: 1 = major road accident, 2 = terrorist attack

**Drill 1**

Full-Scale simulation scenario 1; 1:1; ½ day; surprise; 4 multidisciplinary evaluators; 2 coordinators

**Improvement**

Hot and cold debriefing; creation of a disaster plan if not present and training of employees on it

**Drill 2**

Full-Scale simulation: scenario 2; 1:1; ½ day; surprise; 4 multidisciplinary evaluators; 2 coordinators

**Evaluation**

Harvard model with evaluation grid used to list the expected actions on a quantitative basis and to judge their quality

**Results**

<table>
<thead>
<tr>
<th>Pharmacies results</th>
<th>Hospital A</th>
<th>Hospital B</th>
<th>Hospital C</th>
<th>Hospital D</th>
<th>Averages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate of action performed [%]</td>
<td>Ex 1</td>
<td>Ex 2</td>
<td>Ex 1</td>
<td>Ex 2</td>
<td>Ex 1</td>
</tr>
<tr>
<td>62</td>
<td>75</td>
<td>66</td>
<td>83</td>
<td>76</td>
<td>91</td>
</tr>
<tr>
<td>Global quality of all actions</td>
<td>2.9</td>
<td>3.5</td>
<td>2.7</td>
<td>3.6</td>
<td>3.3</td>
</tr>
<tr>
<td>Quality of actions performed</td>
<td>4.0</td>
<td>4.3</td>
<td>3.6</td>
<td>4.1</td>
<td>4.0</td>
</tr>
<tr>
<td>Time to gather command group [min]</td>
<td>50</td>
<td>5</td>
<td>No</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>SOP</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Ex 1 = drill 1; Ex 2 = drill 2

**Improvements**

Full-scale simulation resulted in the creation of a disaster plan in every pharmacy that did not have one → Improvement of crisis management

**Challenges**

- Communication → Structure transmission (reformulation) → Setting-up of a management rhythm

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**Contact**

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