Evaluation of Pharmaceutical Interventions Performed on Medication Errors Detected in the Prescription

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Pharmaceutical validation consists in verify medical prescriptions (dosage, route of administration, pharmaceutical presentation) and check the suitability of treatment in the approval indications, patient characteristics and domiciliary medication.

**Objective:** to analyze the pharmaceutical interventions (PI) performed in the hospital and measure the degree of acceptance.

**Material and methods**
- Prospective study that included all the PI performed during 3 months of follow-up (January to March 2018).
- PI were made through notes by the pharmacist in the electronic prescription.
- Variables collected: type of intervention, drug, therapeutic group, acceptance or rejection and time of acceptance.

**Results**

- **Dosage mistakes:**
  - Overdosing: 127
  - Underdosing: 48
  - Renal insufficiency: 11
  - Hepatic insufficiency: 7

- **Duplicities:**
  - 22

- **Wrong presentation:**
  - 29

- **Sequencial therapy:**
  - 11

- **Antibiotic recommendation:**
  - 43

- **Conciliation at admission:**
  - 22

- **Interactions:**
  - 22

- **Non-indicated drugs:**
  - 22

- **Other:**
  - 110 nulls (medical discharge)

- 611 PI

- 275 accepted
- 226 rejected
- 110 nulls (medical discharge)

- 54% acceptance

- 48 hours to consider acceptance

**Conclusions**

Many medication errors occur that must be detected and corrected. The rate of acceptance is lower than expected, so it is important for pharmacists to specialize in different areas of knowledge to perform high quality pharmaceutical interventions that can help physicians in the electronic prescription and improve the safety of patients.