

## Congruence of severity ratings assigned by two drug interaction databases in haematological treatment sheets

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### Objetives

To compare frequency and severity of potential drug-drug interactions (DDIs) occurring in a haematological unit and detected by two drug interactions databases.

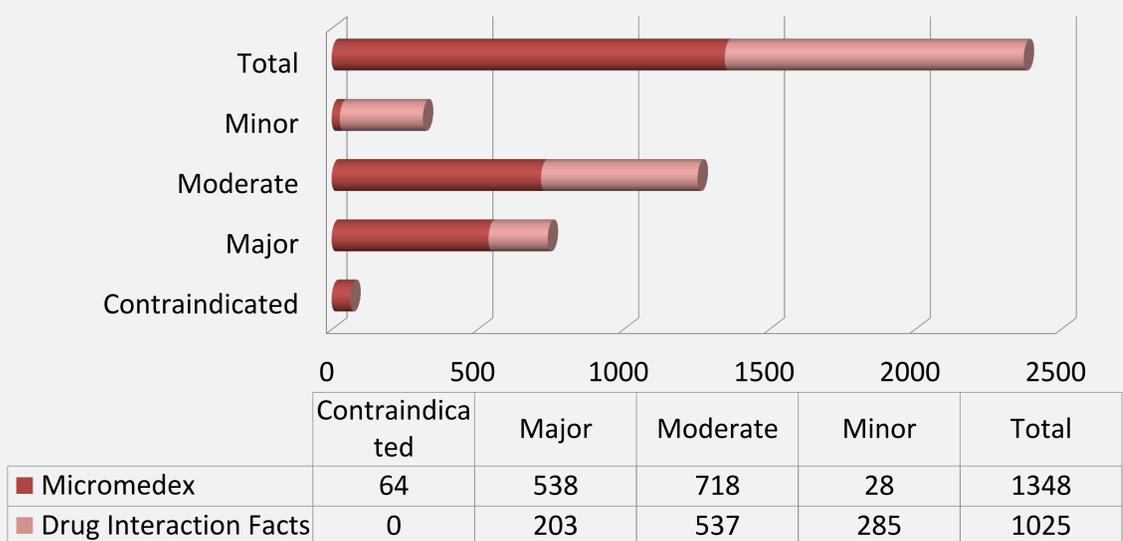
### Study design

A prospective, observational and descriptive study was carried out from November 2012 to February 2013. Twice a week, every patient's treatment sheet was collected and screened through two drug interactions databases: Thomson Micromedex™ and Drug Interaction Facts™. All identified potential DDIs were recorded and graded by their level of severity.

### Results

Among 317 analyzed treatment sheets, a total of 2373 potential DDIs were detected by both databases. According to Micromedex, 1348 potential DDIs were found, counting 176 different pairs of drugs. Regarding Drug Interaction Facts, 1025 potential DDIs were found, counting 124 different pairs of drugs.

Number of DDIs detected by both databases



There was a pool of 225 different pairs of drugs detected by both databases, irrespective of how many times these interactions appeared.

- Upon assessing the total number of pairs of drugs identified by each database, Micromedex identified 78.2% (176/225) and Drug Interaction Facts, 55.1% (124/225) of the potential interactions.
- Upon evaluation of the congruence of severity ratings between both databases, there was an agreement in 16.4% of the 225 pairs of drugs identified (37/225).

### Conclusions

The lack of agreement between different databases enhances the complexity to detect potentially significant drug interactions in clinical practice.

### Disclosure

Authors of this presentation have nothing to disclose.

