Collation and compilation of drug-related information


**Online sources**: AOL Health, BCCA Cancer Drug Manual, Caremark, Discovery Health, Doublecheck MD, Drugs.com, DrugBank, Drug Digest, PharmGKB, PDRhealth™, Medscape, Micromedex® v5.1., Up To Date v16.2., Product information of individual drugs, Published literature from PubMed, Scopus and Science Direct

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**Data on drugs and chemotherapy regimens**
- Generic names and indexed terms of ACDs and psychotropic drugs, Pharmacological categories, Mechanisms of action, Pharmacokinetic parameters
- Names or acronyms of chemotherapy regimens, Drugs in the regimen, Types of cancers treated, Substantiating references

**Data on drug interactions**
- Interaction effects, Mechanisms of interaction, Substantiating evidences, References, Proposed management plans

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**Creation of the OncoRx-MI application**
- Compiled data distributed into interrelated tables in Microsoft Excel and stored in a Structured Query Language database
- Cascading style sheets used for the designing of web documents
- Web documents uploaded onto a web-hosted domain
- **Software**: Adobe Dreamweaver CS4, XAMPP (v2.5.8), Filezilla (v3.2.8.1), SQL Manager 2007 for MySQL (v4.4)
- **Programming scripts**: HTML, XHTML, PHP, javascripts, MySQL

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**Figure 1.** Flowchart showing the process of creating the OncoRx-MI application.
Users can search for drug interactions either by anticancer drugs or chemotherapy regimens.

An interaction search between the chemotherapy regimen FEC and fluoxetine using the iPhone dropdown list.

**Figure 2.** The search interfaces of OncoRx-MI on the Apple iPhone.
Figure 3. Results page of OncoRx-MI showing the interaction search between the regimen FEC and fluoxetine. Users can access links to information about the chemotherapy regimen, pharmacokinetics of the drugs and the detected drug interactions.
**Figure 4.** The OncoRx-MI web clip stores the shortcut to the database on the iPhone’s home screen.
Figure 5. Different search interfaces of the OncoRx-MI application and its parent database seen on internet browsers.