## Collation and compilation of drug-related information

**Hardcopy sources:** American Hospital Formulary Service (AHFS) Drug Information 2007, British National Formulary (53<sup>rd</sup> ed.), Drug Interaction Facts 2008, Hansten & Horn's Drug Interactions Analysis and Management (3<sup>rd</sup> ed.), Lexi-Comp's Drug Information Handbook (15<sup>th</sup> ed.), Lexi-Comp's Drug Information Handbook for Oncology (6<sup>th</sup> ed.)

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



## 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



## 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

**Figure 1.** Flowchart showing the process of creating the OncoRx-MI application.

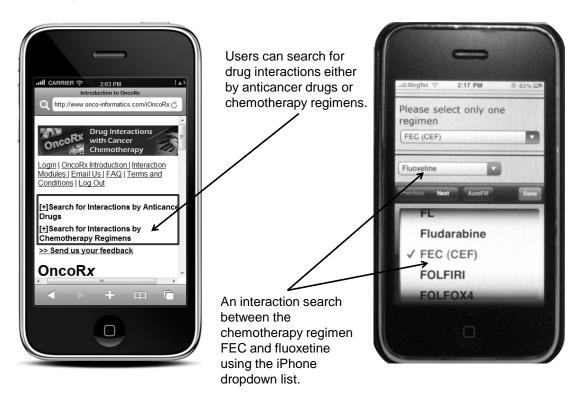
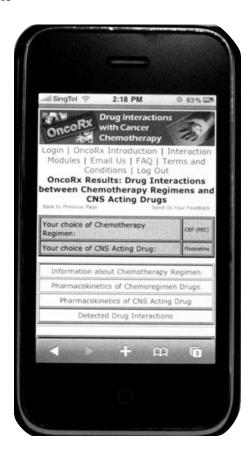


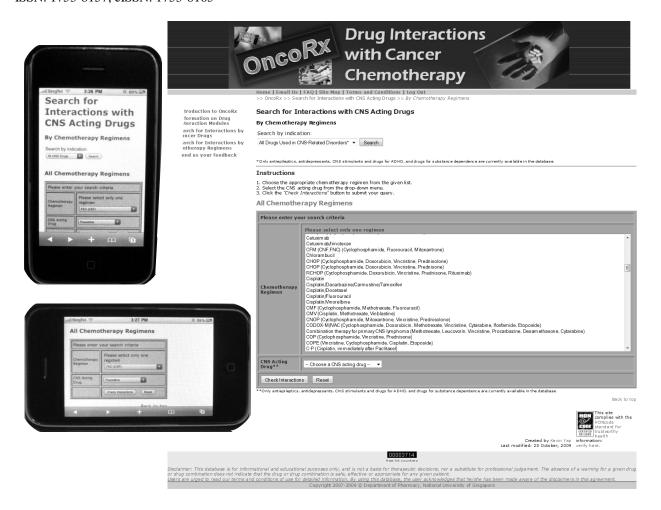
Figure 2. The search interfaces of OncoRx-MI on the Apple iPhone.



**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.