CHAPTER 3

Objectives & Aims
3.1 Objectives of Thesis

Major objectives of the thesis were to apply existing statistical methods for signal detection and to rationalize the use of Bayesian methods:

- To extract the Canadian Adverse Drug Reaction Database for signal detection of anti-cancer drugs.
- To generate new signals and other useful information for safest use of multiple drugs anti-cancer (Paclitaxel, Docetaxel, Cisplatin, Cyclophosphamide, Vincristine and Carboplatin) to improve their clinical efficacy & minimize side effect profile.
- To evaluate the frequency of Tachycardia, Flushing, Ototoxicity, Neutropenia, Peripheral Neuropathy and Pruritis associated with multiple drugs anti-cancer (Paclitaxel, Docetaxel, Cisplatin, Cyclophosphamide, Vincristine and Carboplatin) in different stratified groups.
- To make the healthcare professionals aware of usefulness of signal detection.

3.2 Aims of Thesis

Thesis was planned in such a way to help mankind in a safety aspect of widely used anti-cancer drugs (Paclitaxel, Docetaxel, Cisplatin, Cyclophosphamide, Vincristine and Carboplatin):

To measure the Class specific Signal detection of Tachycardia, Flushing, Ototoxicity, Neutropenia, Peripheral Neuropathy and Pruritis associated with multiple drugs anti-cancer (Paclitaxel, Docetaxel, Cisplatin, Cyclophosphamide, Vincristine and Carboplatin) using various statistical methods. To measure the class specific Signal detection of Tachycardia, Flushing, Ototoxicity, Neutropenia, Peripheral Neuropathy and Pruritis associated with several anti-cancer drugs (Paclitaxel, Docetaxel, Cisplatin, Cyclophosphamide, Vincristine and Carboplatin) by stratifying available data in two groups of male and female.

- To measure the class specific signal detection of Tachycardia, Flushing, Ototoxicity, Neutropenia, Peripheral Neuropathy and Pruritis associated with multiple drugs anti-cancer (Paclitaxel, Docetaxel, Cisplatin, Cyclophosphamide, Vincristine and Carboplatin) associated with several drugs anti-cancer drugs anti-cancer (Paclitaxel, Docetaxel, Cisplatin, Cyclophosphamide, Vincristine and Carboplatin) by stratifying available data in two different age groups.
- To promote rational and safe use of multiple drugs anti-cancer (Paclitaxel, Docetaxel, Cisplatin, Cyclophosphamide, Vincristine and Carboplatin).
- To encourage and rationalize the use of Bayesian methods in SD.