Issues related to electronic prescribing therapy management
Summary

Drug therapy management, as core of the medication flow process, can play a key role in the rising costs of healthcare, as it relates to both workflow efficiency and patient safety.

Health Information Technology, when designed, implemented, and used appropriately, can be a positive enabler to transform the way healthcare is delivered. Computerized physician order entry (CPOE) technology allows physicians to enter orders into a computer instead of handwriting them and it can substantially decrease the overuse, underuse, and misuse of healthcare services. This technology can yield many significant benefits and is an important platform for future changes to the health care system. E-prescribing allows for prescribing the most medically appropriate and cost effective prescription at the point of care, it can help eliminate medication errors, improve patient safety, and reduce costs by making the medication therapy management process more efficient.

This dissertation reports on issues related to electronic prescribing therapy management. Purpose of the present work is to illustrate results of software deployment in three hospital wards and software extension, adding new applications in the electronic prescribing software. Software deployment and extension are presented with the analysis of all the processes related to therapy management.

A complete snapshot of European Union’s latest directives regarding standalone software as medical devices is shown in detail and usability issues related to medical devices network software are explained and described. The nowadays importance to obtain a certification for a I class electronic prescribing software is discussed.