Abstract

Purpose: To determine the readiness of a system of software (ATC Method 2-v.2.3) developed by the Resource Center for Emerging Technologies (RCET) for supporting QA of cooperative group clinical trials within the American College of Radiation Oncology (TC) and to test the readiness of an enhancement to support a new data exchange format. The approach involved a phased development over 8 months, with rigorous testing of the software.

Results: The system was found to be ready for clinical use. Testing of version 2.3 of this software in preparation for its use to support clinical trials demonstrated that it could perform the required functions.

Conclusions: The software is ready for use. Further testing is planned to ensure that it meets all requirements.

Introduction

The Advanced Technology QA Consortium (ATC) is working to develop a system of software (ATC Method 2-v.2.3) for supporting QA of cooperative group clinical trials within the American College of Radiation Oncology (TC). This paper describes the development and testing of this system.

Methods and Materials

Test Suite

The test suite comprises a set of tests designed to evaluate the performance of the ATC Method 2-v.2.3 software. The tests include:

• Test the system to ensure that it meets all requirements.
• Test the system to ensure that it is ready for clinical use.

Results

The system was found to be ready for clinical use. Testing of version 2.3 of this software in preparation for its use to support clinical trials demonstrated that it could perform the required functions.

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