VARIAN medical systems

OncQT Oncology query tool

OncQT is a powerful and secure oncology query tool that lets users retrieve data from the Varian application databases for customized reporting and analysis.

System highlights

- Requires no technical or database expertise
- Wizard-guided query construction
- Customizable presentation of results
- Aggregate data can be exported to other applications for further analysis
- Security for data access control

An oncology information system (OIS) captures an extraordinary amount of clinical and administrative data that can be analyzed to reveal important information about your practice. However, since creating detailed reports for data analysis often requires a technical understanding of database structure, accessing the data can be challenging for many clinical users. OncQT simplifies the reporting process, making it easier for you to turn the data stored in your OIS into useful, actionable information.

Clinicians, managers, and other non-technical users in your department can use OncQT to query your Varian application databases in an interactive manner to conduct population-based clinical research, or to perform periodic assessments of department operations. OncQT is designed to complement your standard reports and can give you a deeper understanding of your clinical and administrative practice patterns.

Simple, powerful query construction

OncQT gives you two options for defining query criteria: a step-by-step wizard utility, or a more open-ended approach for advanced users. Both methods allow users to interact with the data and make on-the-spot query modifications to tailor the results.

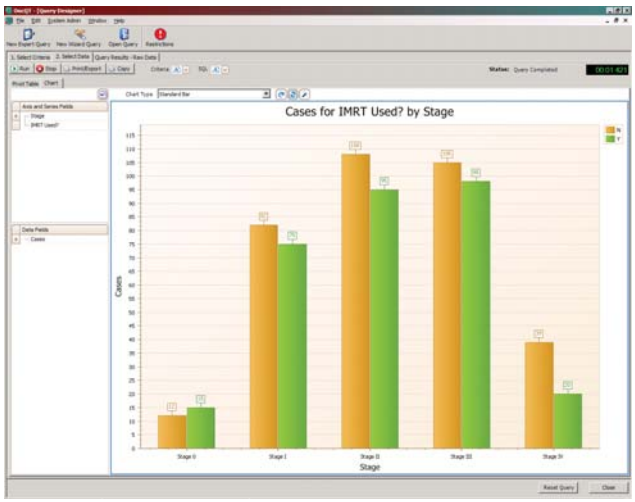
The configurable OncQT wizard prompts you to answer detailed questions that help you consider relevant criteria to include in your query. By simply answering each question, you can define optimal search parameters and conditions.

With the advanced mode, designated expert users in your department can use a graphical, cross-tab feature to define criteria using any available data element. This method allows those with the appropriate user rights to construct queries with a broader range of attributes and values.

Customized reporting and analysis

OncQT provides data that may help:

- Oncologists monitor survival rates based on diagnosis, staging, and treatment method
- Managers and administrators confirm that treatment was delivered per clinical guidelines
- Research office staff conduct population-based clinical research
- Managers and administrators analyze drug usage



Flexible presentation & analysis options

Once you have defined your query constraints, OncQT lets you decide how the information is displayed. You can review the results as raw data, in a graph, or in a summarized table format. Queries, presentation information, and display formats can be saved for future reference and re-use.

OncQT offers a variety of statistical analysis tools, including sum, min/max, average, standard deviation, mean, median, mode, and variance. You can save the aggregate results data from any query into a variety of common file formats including XML for export to complex statistical analysis software.

Customizable security settings

OncQT has security controls in place to safeguard your data from unauthorized access. Each user is assigned a unique user name and password. This enables you to control access to areas within OncQT, restrict access to certain types of data, and audit the queries that are run by individual users.

Data access is controlled by assigning members to specific user groups. Group levels determine which data elements or data subsets users can access. For example, you may decide that certain users can only view data for patients with a specific diagnosis or patients at a particular clinic.

System compatibility

OncQT is a stand-alone application and database that runs on a separate reporting server. It is compatible with the ARIA® oncology information system for medical oncology, radiation oncology, and CCS (Comprehensive Cancer Solution).

Users can construct queries of the following information in the OncQT database:

- Patient demographic information
- Diagnosis, staging, and non-cancer problems
- Performance status, exam results, toxicity assessments, and lab results
- Patient history: family, medical & procedural, social, and gynecological
- Treatment regimens, drug orders, drug administration (medical oncology version only)
- Radiation treatment information: physician intent, treatment plan, and RT delivery details (radiation oncology version only)

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VARIAN medical systems

USA Headquarters, California
Varian Medical Systems
Palo Alto, CA
Tel: 650.424.5700
800.544.4636
Fax: 650.493.5637
www.varian.com

Headquarters Europe, Eastern Europe, Africa, Middle & Near East
Varian Medical Systems International AG
Zug, Switzerland
Tel: 41.41.749.8844
Fax: 41.41.740.3340
info.europe@varian.com

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