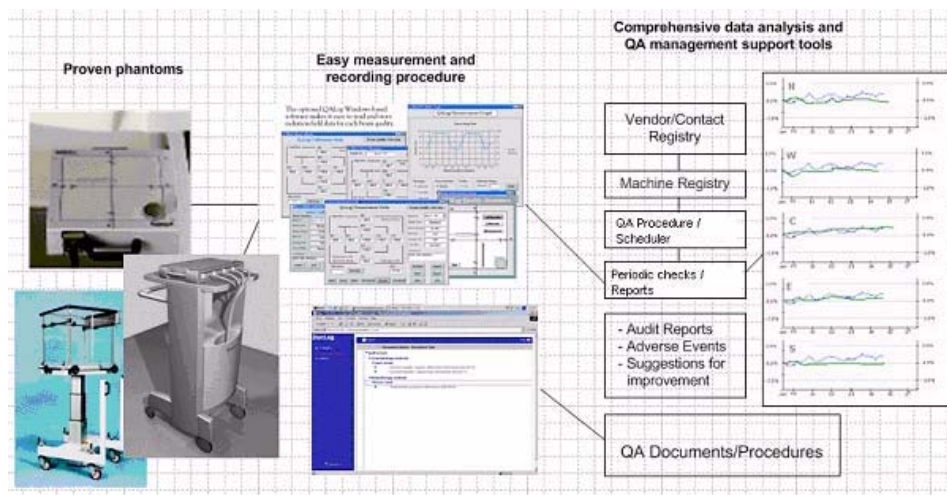


# MachLog

## QA Data Management System



ONCOlog Medical QA AB is a medical expert company providing unique products for Quality Assurance and Information Management in Oncology.

MachLog is Web-based and it supports interactive communication via Internet  
 MachLog is dynamic and the user may configure his own measurement forms  
 MachLog is a comprehensive tool for fully managing **Machine** QA processes  
 MachLog has language flexibility and different languages are easily adapted

### *Functionalities*

1. **Database for archiving and web-publishing of QA documents**
2. **Manufacturer and contact person registry**
3. **Equipment (machine) registry**
4. **QA activity scheduler**
5. **Periodic checks and measurements**
6. **Data analysis module**
7. **Adverse Events database**
8. **Database for improvement suggestions**
9. **Benchmarking**
10. **Invoicing**

### 1. Database for archiving and web-publishing of QA documents

E.g. procedures and methods, instructions, audit reports, manuals, standards, regulations, reference documents, links.

### 2. Manufacturer and contact person registry

A comprehensive contact registry containing address data, phone numbers and e-mail addresses for vendors, suppliers, institutions and regulatory authorities.

### 3. Equipment (machine) registry

A Machine/Equipment form containing relevant data including serial numbers, delivery dates, contract information, warranty information, technical parameters and features etc.

### 4. QA activity scheduler

This form consists of a comprehensive QA planner and scheduler for the QA activities in the radiotherapy clinic. An automatic function outlines/books a given set of planned activities for a given period (year). Tests and measurements are made in compliance with regulatory standards and prescribed protocols at correct time by authorized personnel using validated equipment.

### 5. Periodic checks and measurements

Instructions and forms for periodic measurements, built on existing protocols but with dynamic database structure (user defined). Storage of "raw data" in any format, e.g. as text, spreadsheets, curves, images. Easy input of comments e.g. on data evaluation.

Workflow with electronic signature.

Periodical checks and report forms for each machine containing measurements and observations done according to a checklist.

QA instruments with digital output are interfaced for simple and user-friendly recording of measurements.

### 6. Data analysis module

Numerical and graphical tools, report printout, comparisons between old and new measurements, trends, comments. Structured presentation of data. Easy to use data transfer with export in MS Excel format. Measurements displayed graphically e.g. over time. Trends and deviations are easily monitored.

### 7. Adverse Events database

The adverse event report form contains a description of an event as well as functions for follow up, action plans and an action log recording as well as activities taken to solve a problem.

The report may be regarding methods and equipment used in the clinic as well as regarding events concerning patients

### 8. Database for improvement suggestions

A structured database for ideas for improvements on equipment and procedures.

### 9. Benchmarking

The regularity of measurements and other QA procedures can be audited and compared.

E.g. specific performance of similar machines can be compared between clinics on a voluntary basis.

### 10. Invoicing

Possibility to record QA activities and create invoices to clinics and hospitals for QA related services.

### Control, confidentiality and integrity:

- Data can be verified and authorized from any Internet connected computer.
- MachLog supports high Internet security mechanisms including comprehensive access control management, database encryption, Internet traffic encryption and secure authentication.
- All database activities are logged for full process control.