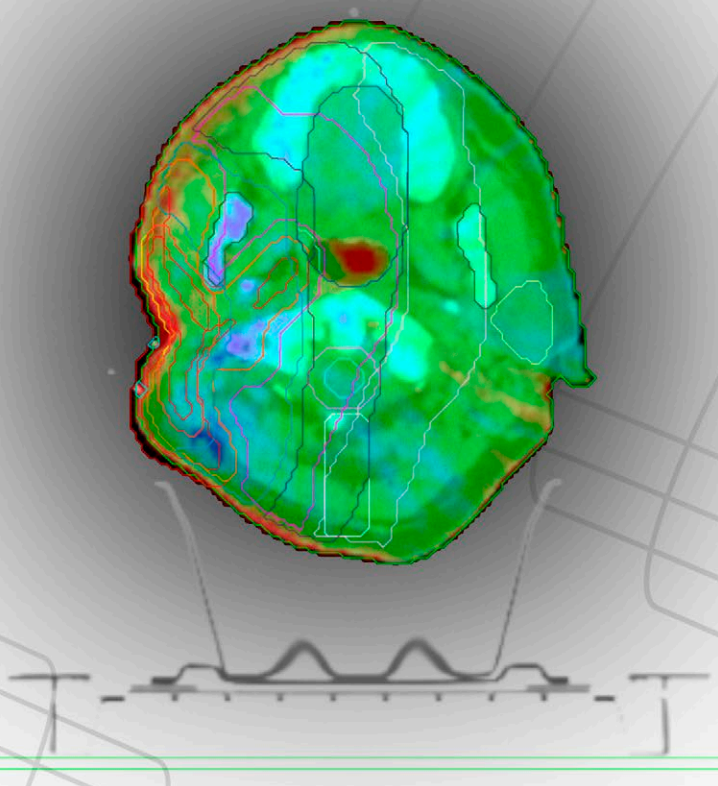
STANDARD IMAGING®

PATIENT DOSIMETRY

AUTOMATED SECOND CHECK WITH MONTE CARLO ACCURACY



IMSURE 3D™ SOFTWARE

PATIENT DOSIMETRY

STANDARD IMAGING®

IMSURE 3D™ SOFTWARE

- MC dose calculation and plan QA
- Accuracy of Monte Carlo
- Custom machine-specific beam models
- Comprehensive analysis and reporting
- Streamlined web-based user interface
- Service-oriented architecture
- Seamless integration
- Automated workflow
- No proprietary hardware needed

MONTE CARLO BASED INDEPENDENT CHECK

- Patient Worklist
  - Plan Evaluation Metrics
  - DVH Analysis
  - Dose and Gamma Slice Viewer
  - Gamma Pass Rate
  - Beam Data Table
  - Plan Complexity Metrics
- Templates for Plan Evaluation Metrics
- Customizable Setup
- Email Notifications

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INDEPENDENT PATIENT SPECIFIC QA

AUTOMATED SECOND CHECK WITH MONTE CARLO ACCURACY.

TIME-SAVING QA ROUTINE

Software easily identifies errors and provides tools for an intuitive, comprehensive analysis. Quickly and easily assess plans from anywhere using the web-based interface.

MONTE CARLO ACCURACY

The Monte Carlo algorithm is the gold standard for patient specific QA calculation accuracy. Custom machine-specific beam models ensure the highest accuracy.

QUICK CALCULATIONS

Proprietary multi-core CPU based variance reduction allows for calculation times of around a minute. Automated, time-saving workflow produces 3D dose calculations in minutes with reliable results regarding treatment plan quality.

MAXIMIZE MONTE CARLO

Supports all major treatment machines:

- Elekta®
- Varian® (including Halcyon™ and Ethos™)
- Siemens®
- Accuray®
- TomoTherapy®
- Radixact®
- CyberKnife®-systems
- ZAP-X®

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> **TG 219 recommends that secondary dose/MU calculation should be performed for every IMRT/VMAT plan, at least in 1D but preferably in 2D/3D, regardless of the method of measurement- based verification utilized. A main advantage of an independent dose calculation method for IMRT is that it is far less time consuming than experimental methods for patient-specific QA. urthermore, such calculational procedures do not require machine time or additional effort to perform the measurements. These advantages cannot be neglected when evaluating the overall IMRT QA strategy in a department; as personnel feel increasingly confident about the reliability of techniques such as IMRT, it is reasonable to revise efforts in order to reduce the overall workload".**
>
> AAPM TASK GROUP 219 REPORT

IMSURE 3D™ SOFTWARE RECOMMENDED SYSTEM REQUIREMENTS

Minimum

The following are the minimum recommended specifications for the server on which IMSure 3D Software will be installed:*

CPU — x64-based processors 4C/8T, 1.4 GHz or faster

RAM — 12 GB of RAM

Free Hard Disk Space — 20 GB (Installation)

Operating System — Windows** Server 2012 R2 Standard or newer with IIS enabled

Software — .NET 4.6.2, .NET 3.5 (Windows Server 2016+)
IIS

Database — Microsoft SQL Server 2012 Express or newer

Monitor — Medical grade with minimum native display resolution of 1024x768 and 32-bit color

Input Device — Standard keyboard and wheeled mouse

Language — English (US) or English (UK)

**Minimum specifications will allow users to run typical patient data using a "Fast" Minimum Uncertainty setting with a grid voxel size of 3mm x 3mm x 3mm.*

Recommended

For optimal system performance, the following are the recommended specifications for the server on which IMSure 3D Software will be installed:

CPU — x64-based processors 8C/16T, 1.4 GHz or faster

RAM — 20 GB of RAM

Free Hard Disk Space — 20 GB (Installation)

Operating System — Windows** Server 2012 R2 Standard or newer with IIS enabled

Software — .NET 4.6.2, .NET 3.5 (Windows Server 2016+)
IIS

Database — Microsoft SQL Server 2012 Standard or newer

Monitor — Medical grade with minimum native display resolution of 1024x768 and 32-bit color

Input Device — Standard keyboard and wheeled mouse

Language — English (US) or English (UK)

***Windows is a registered trademark of Microsoft Corporation.*

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