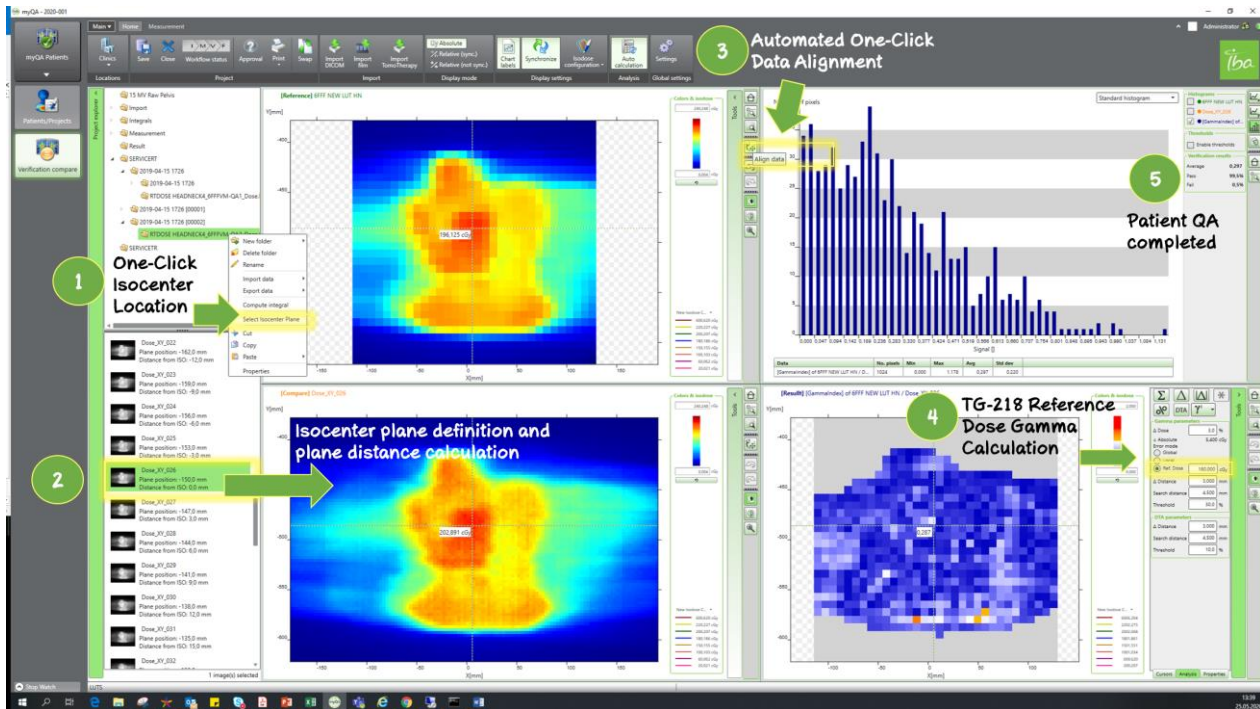


Upgrade from OmniPro IMRT to myQA Patients

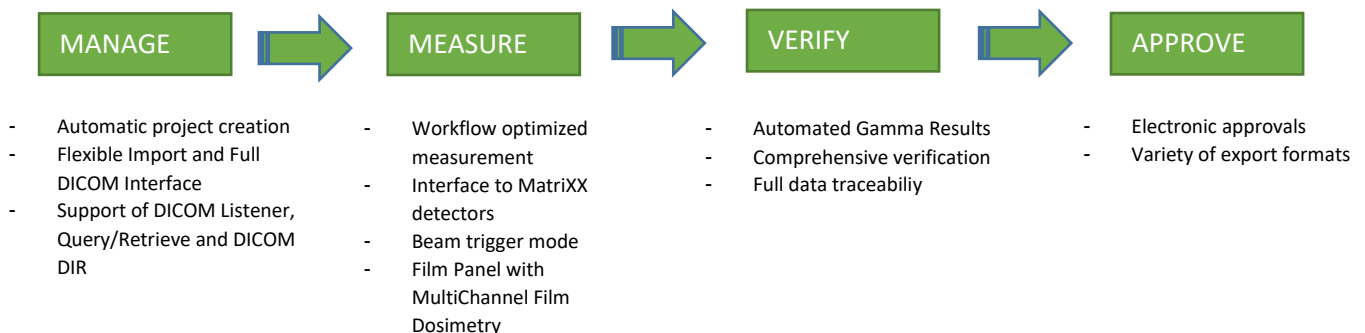


myQA Patients Key Benefits

- ✓ Your Patient QA on myQA Platform together with your Machine QA & Beam Scanning
- ✓ myQA connects staff, locations and satellites to give you full patient data access.
- ✓ Patient QA workflow efficiency including instant status management and due dates.
- ✓ New level of the data integrity and traceability through change from a file-based workflow to a single central database.
- ✓ Reliable reporting of your Patient QA for documentation and audits

myQA Patients – Efficiency of the comprehensive plan verification

Advanced Patient QA application for VMAT, IMRT and FFF treatments





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- ✓ Novel Gamma Index analysis with different selectable dose reference levels
- ✓ Extensive data visualization in 1D and 2D: profiles, isodose overlays, dose distributions, histograms and gamma statistics
- ✓ Compatible with all major TPS systems

Multichannel Film Dosimetry in myQA Patients

Multichannel Film dosimetry data can be imported, calibrated and analyzed. This feature includes:

- Implementation of multichannel algorithm analysis based on R. Mayer et al, Med. Phys. 39 (2012), 2147
- Optical Density directly calculated from Analog to Digital Conversion value
- Improved "fit function" for the generation of calibration curves

myQA Patients 2020-001 Highlights

myQA Patients 2020-001 release brings further improvements to the fast and accurate dosimetric analysis of the measured and calculated patient plan dose distributions.

- ✓ Better detection of the clinically relevant dose deviations is possible now with TG-218 compliant gamma analysis tools
- ✓ Overall speed of the evaluation is increased with automated selection of the isocenter plane and fast automatic alignment of the dose distributions
- ✓ Wizard for Creation of the customized angular response correction tables (LUT) for the further improvement of accuracy and research applications

Auto Alignment of the Reference and Compare Datasets

Manual alignment of the dose distribution planes have always been time-consuming process. With the new Auto Alignment feature, myQA Patients Software is intending to speed up Patient QA workflow and provide consistent results during the measurement session.

Auto Plane Selection based on the DICOM RT Plan Isocenter

Selection of the proper dose plane for comparison in the QA phantom has always been manual process and would start with search of the beam or plan isocenter. Now, myQA Patients can identify the isocenter location in one mouse click in the dose planes, based on the information available with DICOM RT Plan import.

Gamma index calculation following TG-218 Reference dose guidelines

For the gamma analysis AAPM TG-218 Report advises to use the global normalization with reference dose selection as better approach, compared to the maximum dose.



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“The global normalization point should be selected whenever possible in a low gradient region with a value that is $\geq 90\%$ of the maximum dose in the plane of measurement. This will provide a more realistic measure of the comparison between the two dose distributions.”

Tolerance limits and methodologies for IMRT measurement - based verification QA: Recommendations of AAPM Task Group No. 218 M. Miften et al.

myQA Patients is now providing Reference dose gamma calculation formalism where any value in Gy or % of the maximum dose can be selected by user for the gamma analysis.

Look Up Table Creator

Angular correction is essential for the MatriXX measurements in true composite measurements of IMRT and VMAT treatments. Besides Monte Carlo based look up tables provided by IBA Dosimetry, now any user can create own angular correction factors for the individual phantom assemblies and beam qualities and apply different approaches for the LUT creation including the off- axis chamber positions.