Sun**CHECK**[™] Patient

Specifications



General Specifications (applies to all unless	s noted)		
Browser support	Google Chrome (recommended), IE 11		
Meets Reimbursement/Reporting Requirements	Yes		
Supported Treatment Modalities	HDR Brachytherapy, 3D CRT, IMRT, VMAT, SRS and SBRT		
API Connectivity	Yes, SunCHECK Patient		
Plan Quality Checks - PlanCHECK™			
Treatment Planning Systems Supported	Varian Medical Systems® Eclipse™ via Scripting, others via DICOM		
Physics Checks	Rules-based checks: Treatment and non-treatment beam verifications, plan parameters, structures and deliverability		
Dosimetric Checks	Structure-based checks: Dose/volume metrics with user-definable constraints; complex dosimetry metrics such as: Conformality Index, Conformation Number, Gradient Index and Gradient Measure for multiple structures, plus Homogeneity Index, Inhomogeneity Index and more		
Secondary Calculations - DoseCHECK™			
Supported Systems	 Elekta and Varian Medical Systems[®] Linacs, including Varian Medical Systems[®] Halcyon[™] System Accuray TomoTherapy Hi-Art[®], H-Series[™] and Radixact[®] Systems, including Precision Treatment Planning System Varian Medical Systems[®] and Elekta HDR Brachytherapy Systems 		
Dose Calculation Algorithms	 Conventional Linacs: Collapsed Cone Convolution Superposition TomoTherapy Systems: Monte Carlo HDR Brachytherapy: TG-43 compliant algorithm 		
Available Analysis & Pass/Fail Criteria	 Photon: Composite & Beam Point doses, MUs*, 3D Dosimetric Analysis Electron: Beam Point doses HDR: Composite Point doses, Source Information, Multi Fraction Plans, 3D Dosimetric Analysis 		
Pre-Treatment QA - PerFRACTION™			
Data Sources	EPID and/or Log Files (dependent on Linac and imaging type used in delivery), and/or ArcCHECK array		
Available Analysis & Pass/Fail Criteria	 Composite and Beam Point Doses, 2D Relative Dose Analysis, 3D Dosimetric Analysis 2D Absolute Dose Analysis (Absolute Dose Option**) 		
In-Vivo Monitoring - PerFRACTION™			
Dose Calculation Image Set	Planning CT, Cone Beam CT (CBCT Recalculation Option**)		
Available Analysis & Pass/Fail Criteria	 Composite and Beam Point Doses, 2D Relative Dose Analysis, 3D Dosimetric Analysis 2D Absolute Dose Analysis (Transit Dosimetry Option**) 		

*Varian Medical Systems® and Elekta Linac Plans only, not applicable for TomoTherapy **PerFRACTION Dosimetry Package



All data used is best available at time of publication. Data is subject to change without notice.

Sun**CHECK**[™] Machine

Specifications



Genera	l Specifications (applies to all	unless noted)				
Browser	support	Google Chrome (recomme	Google Chrome (recommended), IE 11			
Meets Re	eimbursement/Reporting Requirer	ments Yes				
Daily, M	Ionthly, Annual QA					
Protocol support		• TG-51 • DIN • Daily QA Support: TG-66, T				
Direct De	evice Connection	Daily QA [™] 3, IC PROFILER [™]	Daily QA™3, IC PROFILER™ and Quad Wedges (Optional)			
maging	g, VMAT, MLC QA - SNC Mach	ine™				
Image Quality: CBCT, kV, M MLC VMAT			٨V			
MLC/ Me	echanical					
VMAT		 Dose Rate vs. Gantry Spee Leaf Speed Arc Point Dose DMLC Point Dose 	eed nt Dose			
Sun Nuclear Phantoms		Additional Phantom Compatibility				
	Line Pairs (mm):	0.1, 0.2, 0.5, 1.0 ± 0.025	Sun Nuclear	MultiPHAN [™] , CT ACR 464 Phanton		
MV-QA	ROI:	9 (4 spatial, 4 contrast, 1 center)	Standard Imaging	PIPSPro Phantoms		
	Dimensions (cm):	12.7 L x 10.2 W x 2.5 D	Phantom Laboratory	CatPhan 503, 504, 600, 604		
	Line Pairs (mm):	0.6, 1.2, 1.8, 2.4 ± 0.01	Leeds	TOR 18FG		
kV-QA	ROI:	28 (4 spatial, 23 contrast, 1 center)	Varian Medical Systems®	Las Vegas Phantom		
	Dimensions (cm):	12.7 L x 12.7 W x 1.6 D	PTW	EPID QC Phantom		
	Field Sizes (cm):	10 x 10; 15 x 15	GE Medical Systems	GE Daily Phantom		
FS-QA	Markers (±0.1mm):	56 - Field size (7 per field edge)	Varian Medical Systems® is a registered trademark, and Varian™, Halcyor trademarks, of Varian Medical Systems, Inc. Sun Nuclear Corporation is r affiliated with or sponsored by Varian Medical Systems, Inc.			
	Dimensions (cm):	17.8 L x 17.8 W x 0.6 D				
WL-QA	Dimensions (cm):	6.0 x 6.0 x 6.0				
	Sphere Size (mm):	7.0				

