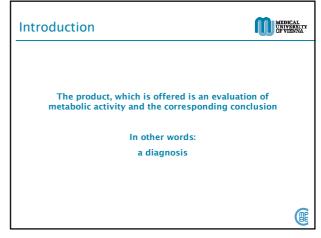
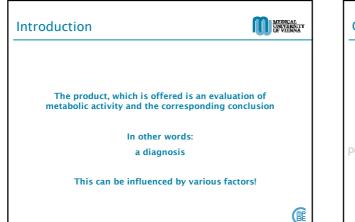
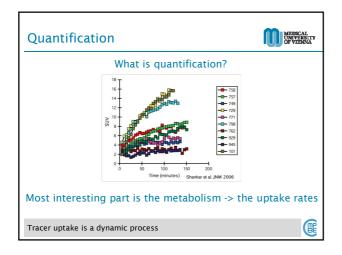


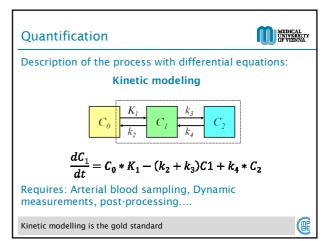
Introduction	EDECAL MUVERSITY VIENNA	
Quality management system		
Programme that controls how quality is maintained and ensured throughout an organization		
Quality Assurance		
General concepts of actions that ensure that a delivered service meets the requirements		
Quality control		
A specific set of measurements focused on monitoring the performance of a system.		
IAEA Human Health Series No. 1		

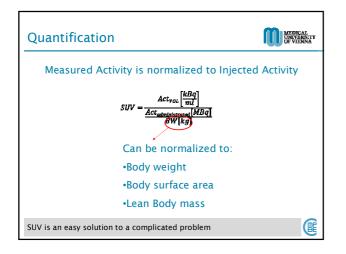


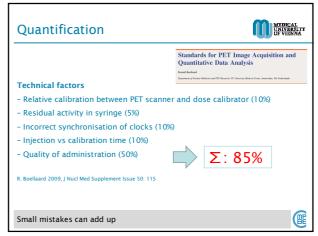


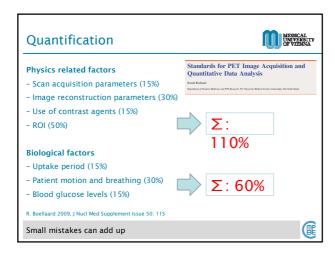


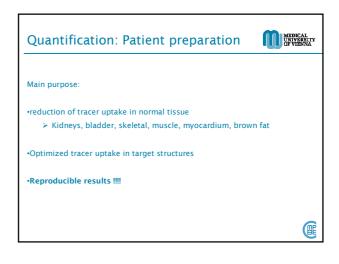


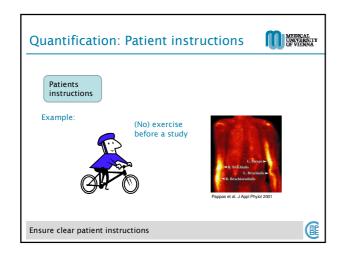


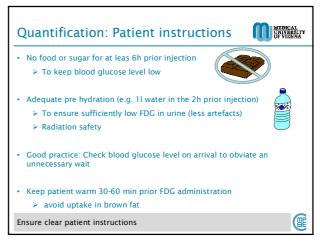


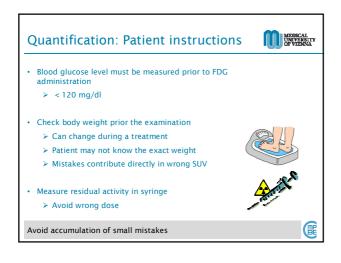


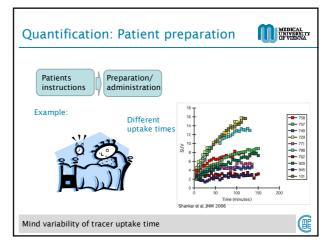


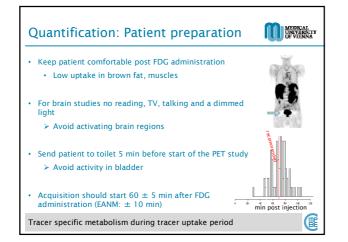


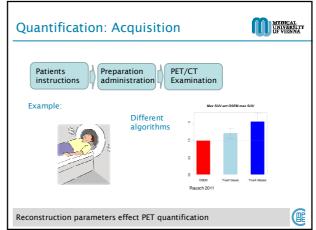


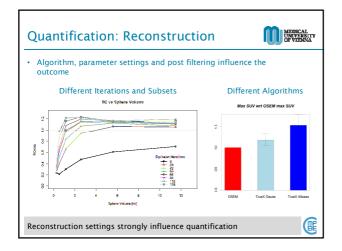


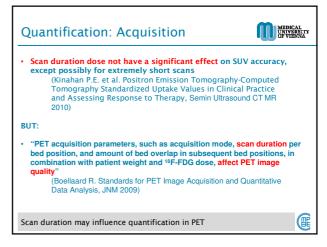


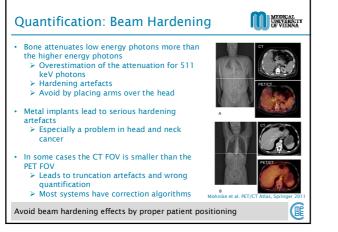


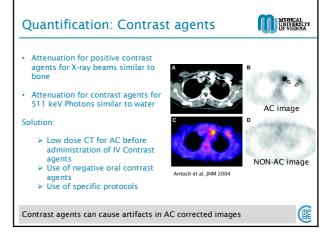


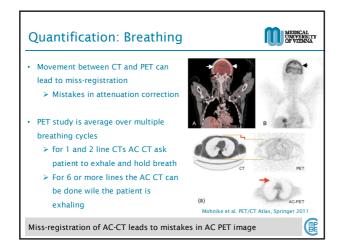


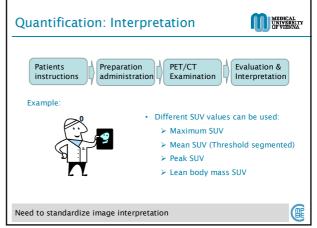


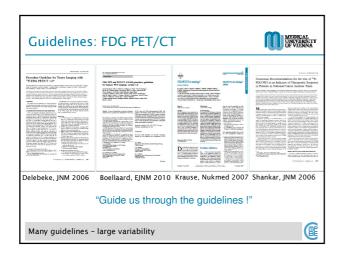






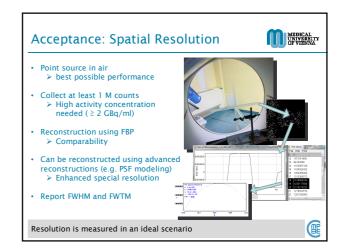


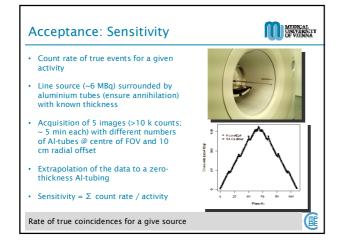


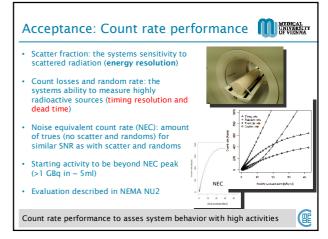


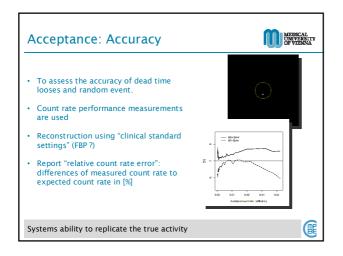


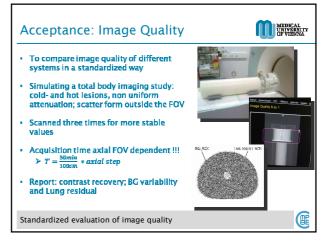
Acceptance testing	MEDICAL UNIVERSITY OF VIENNA
"After installation,, a nuclear medicine instrument must thorough and careful acceptance testing, the aim being to the instrument performs according to its specifications ar clinical purpose."	o verify that
Busemann S. et al. EJNMMI 2010	; 37:662-671
Testing •Standards like NEMA NU2 or IEC performance standards •Clinical Settings (!?) •Additional tests for individual components •Reference data for future QC tests Basically the same at end of warranty	NACE OF THE SECOND SECO
Prerequisite for clinical operation	e

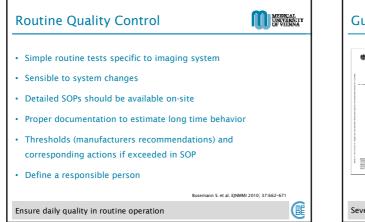






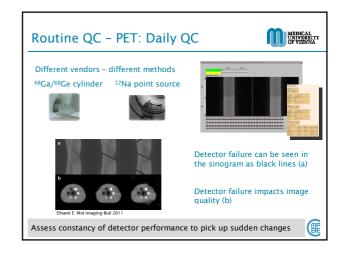


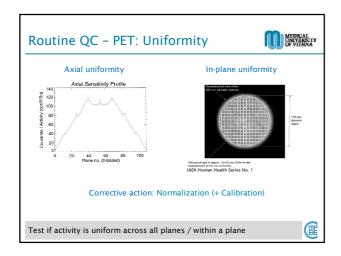


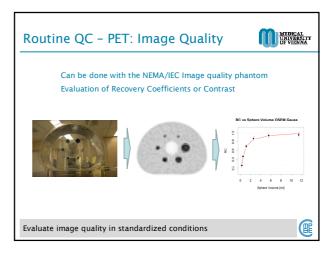


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National gui	delines	EANM guidelines	IAEA guidelines

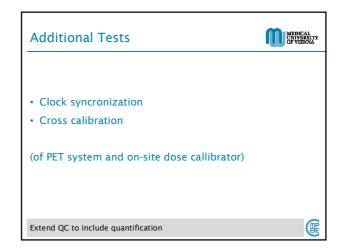
Test	Purpose	Frequency
Physical inspection	Check gantry covers and patient handling system	Daily
Daily QC	Test proper functioning of detector modules	Daily
Uniformity	Axial uniformity across image planes	After maintenance normalization
Normalization	System response to activity in the FOV	Variable (min 6- monthly)
Calibration	Calibration factor from voxel to true activity	Variable (min 6- monthly)
Spatial resolution	Spatial resolution	Yearly
Sensitivity	Volume response to a source of activity concentration	Monthly
Image quality	check hot and cold lesions	Yearly

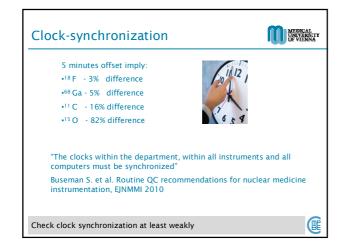


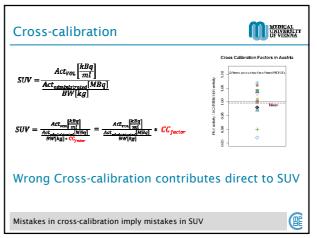


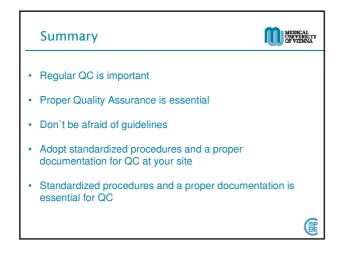


Test	Purpose	Frequency
X-ray CT – daily	Daily procedures due to manufacturer`s recommendation	Daily
X-ray CT – numbers	Determine CT number accuracy	Monthly
X-ray CT – alignment	Determine 3-D alignment of PET and CT	At least monthly
X-ray CT – performance	Check according to national radiation safety	As advised
	Check according to national radiation safety	monthly











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