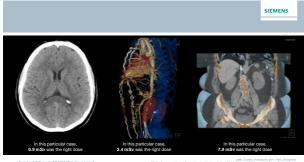


SIEMENS

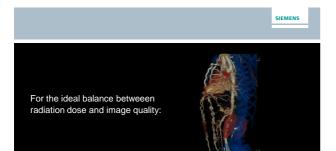


Restricted © Siemens AG 2014 All rights reserve Page 2 07-22-2014



Restricted © Siemens AG 2014 All rights reser Page 3 07-22-2014





Restricted © Siemens AG 2014 All rights reserved. Page 4 07-22-2014





## Handzettel 2

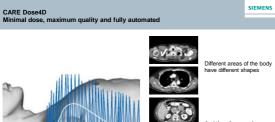
	lose tech							SIEMENS
Prover		on and tech	nological	leadership	SAFIRE	Dose Alert	Stellar Detector	ADMIRE*
	6			Dashboard	٨	*		•
19	30s	1990	s	2000s		2010s		(C)
A	daptive Cardio Sequence	Flash Spiral	X-CARE	IRIS	80 kV Pediatric Protocols	Dual Source CT	Adaptive Dose Shield	Selective Photon Shield
	-1 <b>1</b>		٨	Ş	<u>~</u>	Ò		1

Restricted © Siemens AG 2014 All rights re Page 7 07-22-2014

CARE Dose4D Minimal dose, maximum quality and fully automated Fully automated dose modulation in real time · Highest dose savings without IQ compromise Protocols automatically adapted Modulation based on the topogram and online Fully adjustable with CARE Dose Configurator

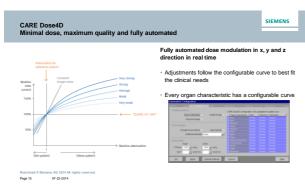
#### SIEMENS

Restricte Page 8 ns AG 2014 Al 07-22-2014



And therefore need customized dose (= tube current)

ins AG 2014 A 07-22-2014 Restrict Page 9

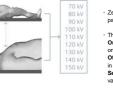


SIEMENS

# CARE kV First automated voltage setting

Allows contrast-to-noise ratio to be optimized

Page 11





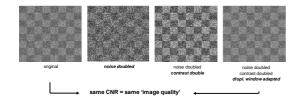
Zero click automated kV setting for each individual patient

The three different modes of CARE kV
On: Optimized tube voltage and tube current based on the patient's size and clinical question
Off: The scan is performed with the kV setting defined in the respective scan protocol.
Semi: A user specified kV setting will be used and mAs-values will be adjusted.

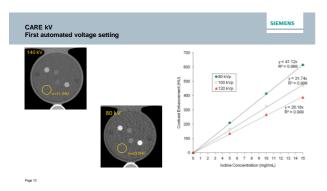
CARE kV First automated voltage setting

SIEMENS

Optimization of kV to minimize patient dose at maintained image quality



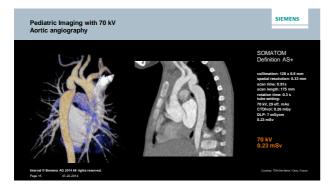
Page 12



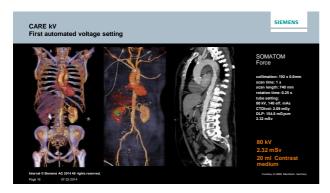


CARE KV Enst automated voltage setting

Page 14

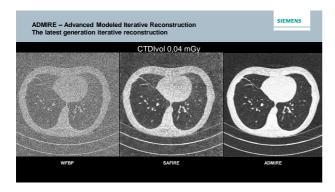


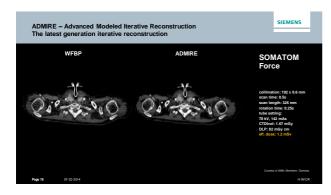


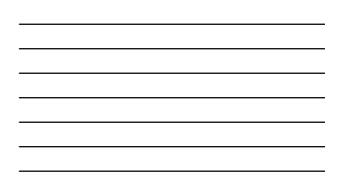


#### ADMRE - Advanced Modeled Iterative reconstruction Difference Improved IQ at excellent dose values On the fly powerful dose reduction, excellent inage quality and everyday suitability Optimize To be approxed in the fly powerful dose reduction, excellent inage quality and everyday suitability On the fly powerful dose reduction, excellent inage quality and everyday suitability Optimize To be approxed in the fly powerful dose reduction, excellent inage quality and everyday suitability On the fly powerful dose reduction, excellent inage quality and everyday suitability Optimize To be approxed in the fly powerful dose reduction, excellent inage quality and everyday suitability On the fly powerful dose reduction, excellent inage quality and everyday suitability Optimize To be approxed in the fly powerful dose reduction on the fly powerful dose reduction

Page 17







# ADMIRE – Advanced Modeled Iterative Reconstruction The latest generation iterative reconstruction

SIEMENS

<b>Î</b>	Topogram		Recon job	12345	678 s	Series description Tho T	horAbd 7.0 Br4	0.3	
<u>-</u>	- Head		1.	Slice	7.0 mm 🔳	Recon job type	• Axial 3	D	
•	Neck	. ,	ADMIRE Kernel		ongth 3 #	Recon region CAP - Lung apex to	Narrow	Wide •	
<b>&amp;</b>	Pause		FAST Vindow		2 I 2			733.0 mm 丑	
• 1	Topogram					E	nd position	933.0 mm 🖽	
in the second se	ThorAbd	0000 ,	НО	FoV FoV	380 mm 코	Image order	Craniocaudal		
5				Center X	0 mm 퐈		Increment	7.0 mm 丑	
-			Overview	Center Y	0 mm 코	No	of images.	29 册	
			Mirroring None		Comments			<u>×</u>	
	Load Hold	Recon	Extended CT :	Extended CT scale				<u>×</u>	
	Hoten	interest.	Routine	Scan		Auto Tasking			

Restricted © Siemens AG 2013 All rights reserved. Page 20 07-22-2014

## FAST Planning Radiation reduction starts with good planning Safe, fast and standardized Automated organ-based scan range planning based on anatomical landmarks

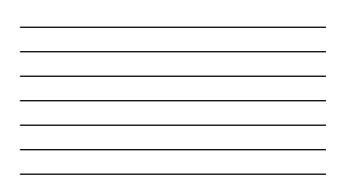
Dose saving by perfect planning Auto iso-center positioning Optimized workflow

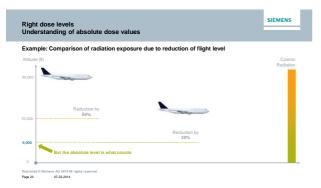
SIEMENS



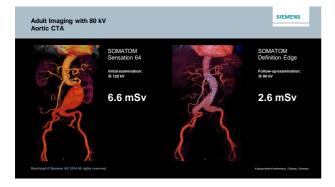
Restricted © Siemens AG 2013 AE rights reserved Page 21 07-22-2014













Right dose levels Regional reference values as a guidance						
		Switzerland	Germany	Europe	USA	
Head		65 mGy	65 mGy	60 mGy	75 mGy	
Thorax		15 mGy	12 mGy	30 mGy	n.a.	
Abdomen		15 mGy	20 mGy	35 mGy	25 mGy	

#### Restricted © Siemens AG 2014 All rights rese Page 25 07-22-2014

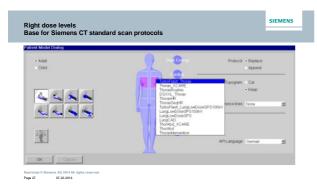
SIEMENS Right dose levels Recommendations from experts **SRA** 

Siemens Radiation Reduction Alliance

15 key opinion leaders in radiology
Drive research to improve radiation reduction technologies
Create recommendations for clinical practice everywhere

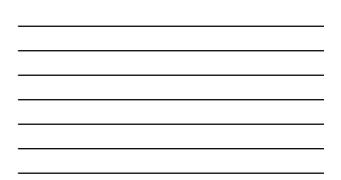
7

Restricted © Siemens AG 2014 All rights reserved. Page 26 07-22-2014

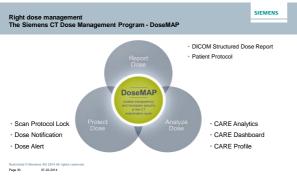














#### Analyze Dose Assess the dose situation

Pre-examination dose checkup

 CARE Dashboard\*: Overview of used dose features per scan

 CARE Profile\*: Visualization of dose distribution prior to scan at every z-position



SIEMENS

Restricted © Siemens AG 2014 All rights reserve Page 31 07-22-2014



# <text><section-header><section-header>

Handzettel 11

Restricted © Siemens AG 2014 All rights reserved. Page 33 07-22-2014



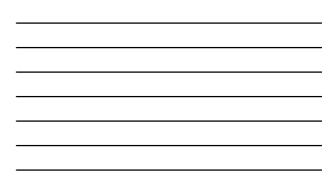
#### SIEMENS

Large portfolio available to increase your skills

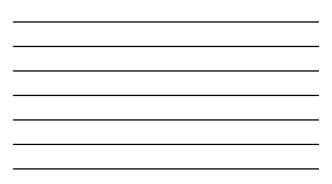
- Dedicated Siemens YouTube Channel
- "How to Guides"
- Webinars
- e-learnings
- Siemens Healthcare "Guide to right dose"

Restricted © Siemens AG 2014 All rights reser Page 34 07-22-2014









CARE Right Committed to the Right Dose in CT SIEMENS

CARE Right Committed to the Right Dose in CT

Restricted © Siemens AG 2014 All rights reserve Page 37 07-22-2014

