

Content

Flash Imaging Technology/Contrast Medium	
Second-Generation Dual Source Computed Tomography	
<i>Siemens Healthcare, Forchheim, Germany</i>	11
Ultravist: A Workhorse Is Constantly Being Reinvented with New Scanner Generations	
<i>Bayer Healthcare, Berlin, Germany</i>	23
Sub-mSv Cardiac	
Sub-mSv Coronary CT Angiography – Overview	
<i>University of Giessen, Germany</i>	41
Sub-mSv Coronary CT Angiography	
<i>University of Giessen, Germany</i>	49
CT Angiography of Acute Chest Pain	
<i>William Beaumont Hospital, Royal Oak, MI, USA</i>	59
Sub-mSv Coronary CT Angiography Using the Prospectively Triggered Sequential Scan Mode	
<i>Peking Union Medical College Hospital, Beijing, China</i>	67
Dual Energy CT	
Dual Energy CT – Overview	
<i>University of Munich, Germany</i>	77
Dual Energy CT Angiography	
<i>University of Munich, Germany</i>	83
Dual Energy Imaging in the Liver and Kidney	
<i>University Hospital Zurich, Switzerland</i>	91
Dual Energy Lung Perfusion and Ventilation	
<i>Asan Medical Center, Seoul, Korea</i>	99
Dual Energy CT of Renal Stones and Gout	
<i>Mayo Clinic, Rochester, MN, USA</i>	109

Flash Thorax

Flash Thorax – What Is New in Technology?

Samsung Medical Center, Seoul, Korea 125

Definition Flash Acute Chest Pain Evaluation

Seoul National University Hospital, Seoul, Korea 129

Sub-second Scanning of the Thorax with Flash Mode

University Lille Nord de France, Lille, France 139

Diagnosis of Pulmonary Embolism by Contrast-Enhanced Flash CT

Medical Academy for Postgraduate Education, Moscow, Russia 149

Special Flash Topics

Brain Perfusion CT Imaging and CT Angiography

University of Acibadem, Istanbul, Turkey 161

Imaging of Pediatric Congenital Heart Disease Using Definition Flash

Marie Lannelongue Hospital, Le Plessis-Robinson, France 173

Definition Flash – Cardiac Perfusion

MUSC, Charleston, SC, USA 185

Contrast Optimization for Modern CT Imaging

RWTH Aachen University, Germany 195

Assessment of Vascularization by Body Perfusion CT

King's College, London, UK 207

Current Dose Levels and Dose Reduction Techniques in CT Imaging

Mayo Clinic, Rochester, MN, USA 217

Abbreviations 227