SIEMENS

L1VOl3 (+30%)

L2VOl3 (-4%)

RECIST Change
<=   – 30 %
>   – 30 %
<   + 20 %
>=   + 20 %
Other

CT Clinical
Engines
2015
Edition

siemens.com/ct-oncology

Get further.
With the CT Oncology Engine.

Driving progress through comprehensive follow-up assessment

"Get further"
VS. "Staying at the same level"

Second best is not an option

Get further with your CT.

Medical progress never happens by simply maintaining the status quo. Year after year, the CT Clinical Engines enhanced your clinical capabilities by providing better diagnostic confidence and improving process efficiency by saving working steps and making your entire patient pathway even faster.

Gain a profound insight into a patient's oncological treatment response during follow-up – with comprehensive visual trending information that is automatically provided with the 2015 Edition. See how a tumor changed over the course of treatment by setting historical data against current measurements. Best of all: *syngo*.PET&CT Cross-Timepoint Evaluation does all this automatically at the click of a button.

Driving progress through comprehensive follow-up assessment.

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Bringing color to the follow-up – oncological assessment at a glance

Comprehensive assessment in oncological follow-up

Benefit from visual trending information in follow-up
*syngo.*PET&CT Cross-Timepoint Evaluation

How do you assess response in the oncological treatment of your patients? How do you enable your referrers to assess condensed follow-up information at a glance? *syngo.*PET&CT Cross-Timepoint Evaluation calculates and displays relevant visual trending over time. In the background, *syngo.*via automatically registers prior time-point, extracts previous measurements, and sets them in relation to your semi-automatic measurements of lesions from the current examination to create a comprehensive summary. Best of all: This is all available with a single mouse click in the new trending workflow step.

This workflow step provides you with all you need for a comprehensive comparison of the patient's follow-up. The trending graph represents a curve over time of the complete tumor burden or a specific lesion – allowing you to compare RECIST, volume, or any other measured parameter. The trending table allows you to explore several parameters in parallel, while the color-coded trending VRT visualizes tumor size changes at a glance – based on the RECIST standard.

Combining speed and high spatial resolution
SOMATOM Perspective

Diagnostic and therapeutic follow-up imaging requires a versatile CT scanner that is able to scan long ranges at the speed of a breath hold. Furthermore, it needs to display even the smallest anatomical structures in high spatial detail to enable clinicians to find small suspicious lesions as early as possible. This is essential in initial diagnosis, staging, as well as in follow-up imaging, which is an essential part of ongoing patient monitoring.

SOMATOM Perspective delivers exactly this: Providing fast acquisition, it covers large scan areas and eliminates motion artifacts caused by breathing. In fact, it offers image acquisition with up to 128 slices, a spatial resolution of 0.4 mm, and the raw-data-based iterative reconstruction software SAFIRE. The CT system can even increase clinical flexibility and allow you to extend your scope of clinical applications, e.g. into the field of CT-based oncological intervention. Since it is available in different configurations, SOMATOM Perspective meets both your clinical and economical expectations.

By combining SOMATOM Perspective with the CT Oncology Engine, Siemens created a solid foundation for substantiated oncological imaging services.
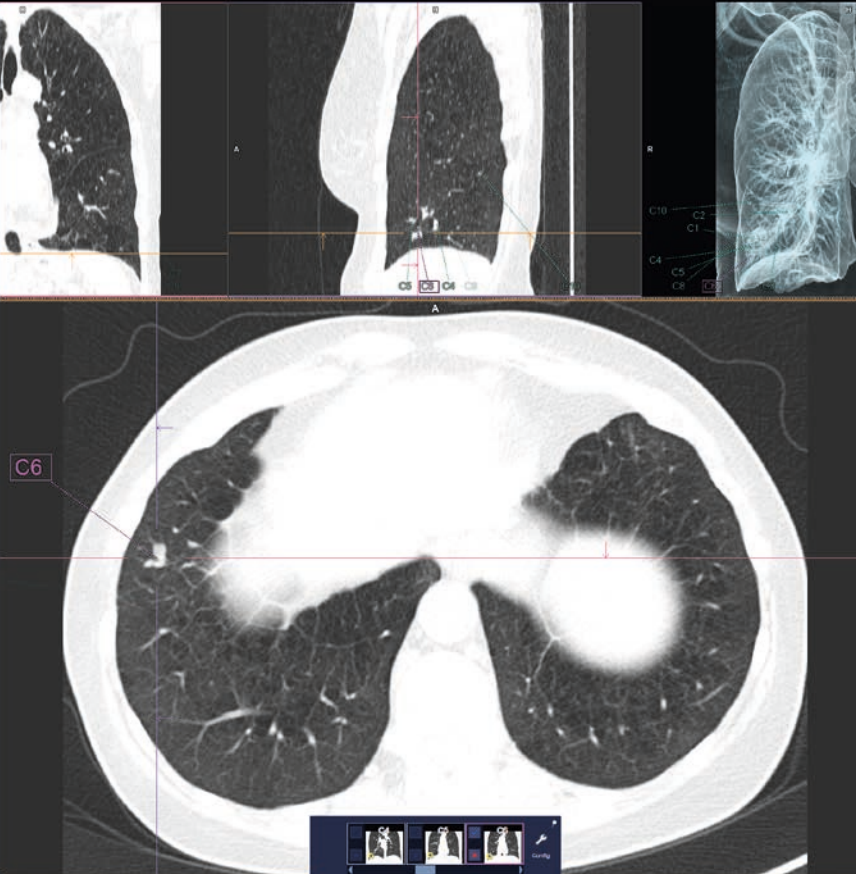
CAD results available wherever you want to review them
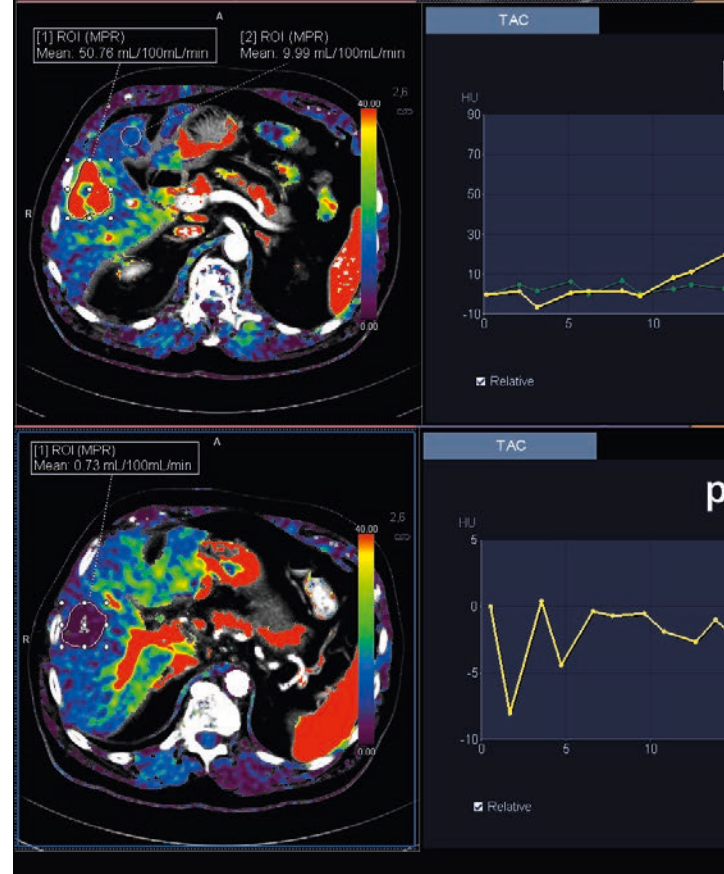
Pinpoint the difference in perfusion

Holistic oncological imaging

Benefit from Lung CAD – reinforced by Rapid Results Technology
*syngo*.CT Lung CAD

Wouldn't you profit from Lung CAD (computer-aided detection) technology available directly at your workplace? *syngo*.via immediately starts working for you when a chest CT arrives on its server. Pre-processing provides you with CAD results as soon as you open the patient's case. Whether you prefer reviewing potentially – suspicious CAD-marked lesions in *syngo*.via or directly in your PACS-reading environment – Rapid Results Technology now offers both.

Analyze a tumor's viability with contrast-enhanced dynamic CT
syngo.CT Body Perfusion[1]

How do you decide whether a patient's therapy is successful or not? And when? Modern oncological therapies show their potential at an early stage, long before the lesion is changing in size. Therefore, the demand for ways of differentiating responders from non-responders is rising. *syngo*.CT Body Perfusion offers in-depth assessment of a tumor's viability by looking into its perfusion and vascularization.
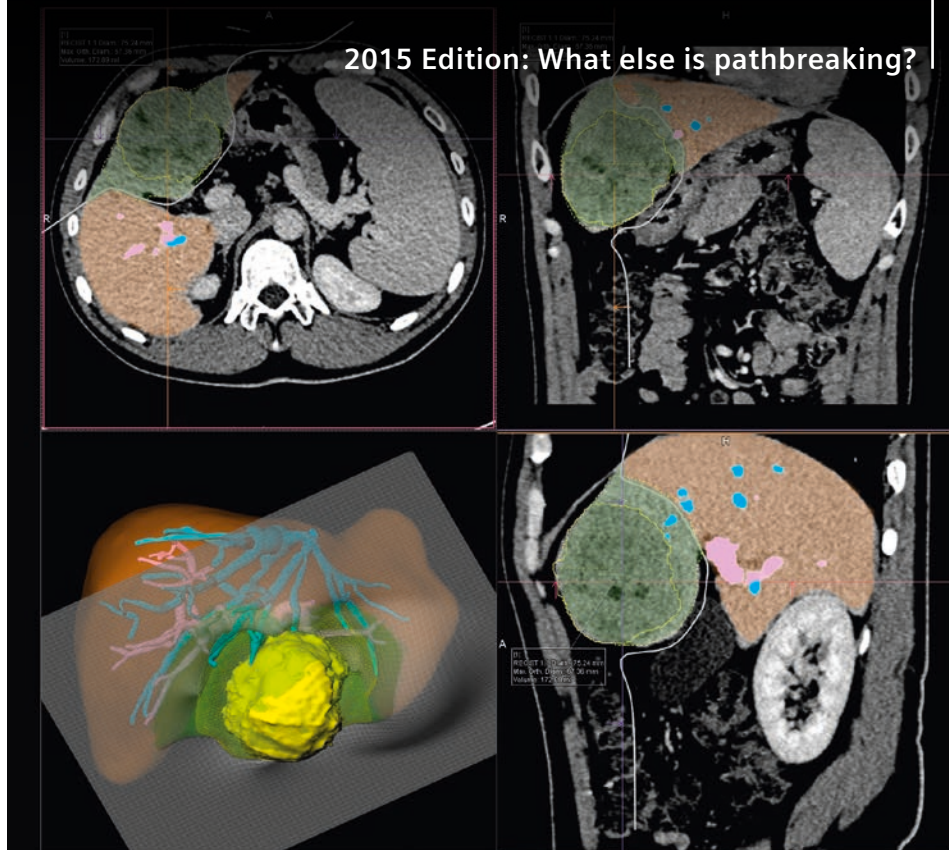
pre TACE
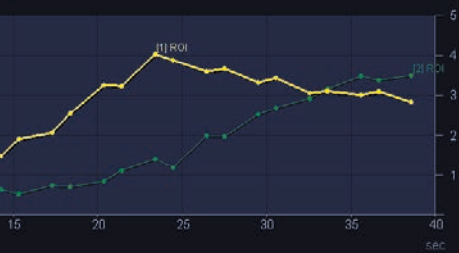
post TACE

Enabling comprehensive quantifications in virtual planning

Utilize the full potential of virtualization and quantification
*syngo*.CT Liver Analysis[1]

How do you satisfy your referrers' request for virtual planning and quantifying for complex liver surgery? In the operating room, there is usually no time for several approaches – so the right one should be known beforehand. It would be even better if several possibilities could be tried, and resected volumes precisely measured, in advance. *syngo*.CT Liver Analysis provides you with virtual scalpels to plan and measure potential interventions in liver surgery.

Your benefits at a glance

- Increase the reputation of your institution by widening your field of oncological applications

- Increase reading efficiency with CAD second-reader support – everywhere

- Enhance patient outcome by comprehensively evaluating tumor perfusion for early therapeutic assessment

- Improve quality of care by performing and quantifying liver resection surgery virtually
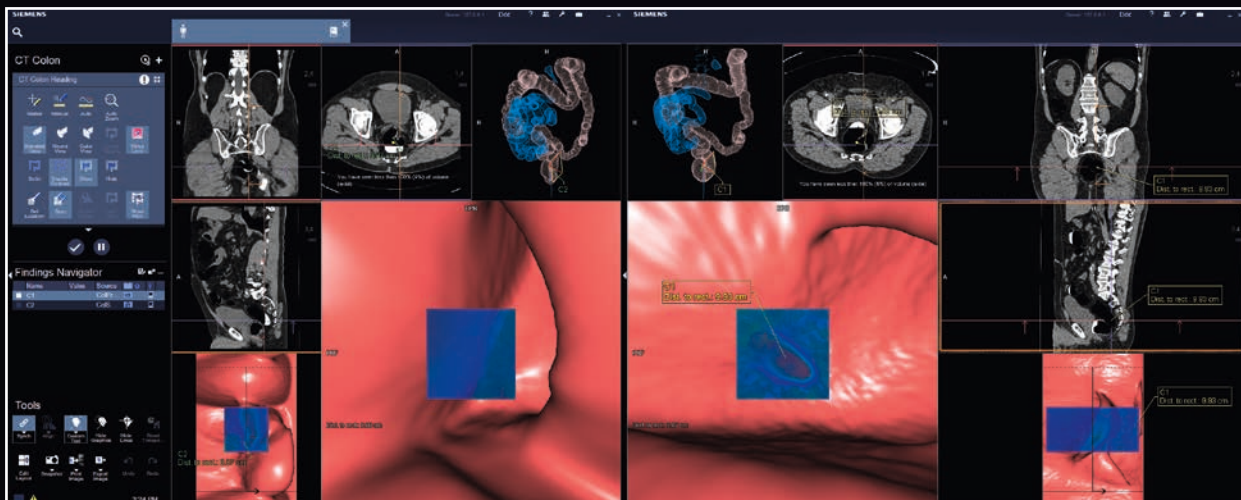
[1] Optional

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Get further – with our
CT Oncology Engine
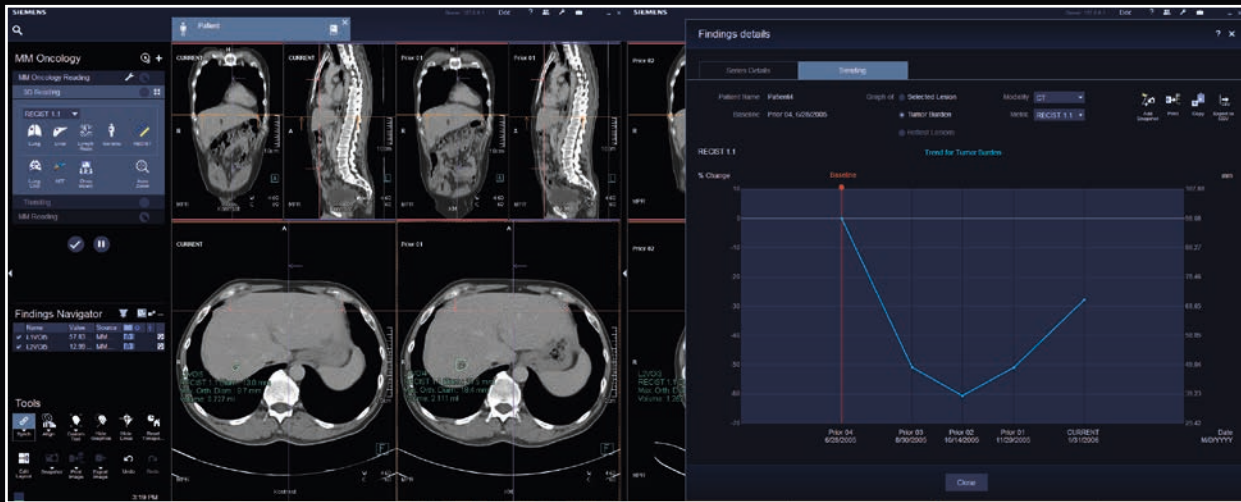
Automated segmentation and measurement of lesions
syngo.CT Segmentation

Trending and tumor growth rate at a glance
*syngo*.PET&CT Cross-Timepoint Evaluation

Visualization, comparison, and synchronized navigation of up to eight different timepoints
syngo.PET&CT Onco Multi-Timepoint

Complete 2D/3D assessment in virtual colonography
syngo.CT Colonography
syngo.CT Colonography Advanced

Second-reader support – automatic detection of colon polyps
syngo.CT Colonography – PEV

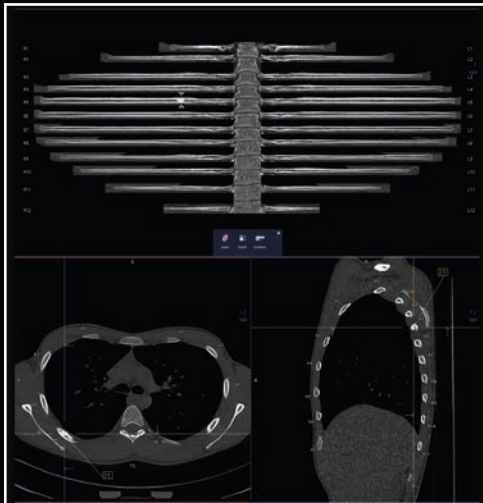# and optional applications
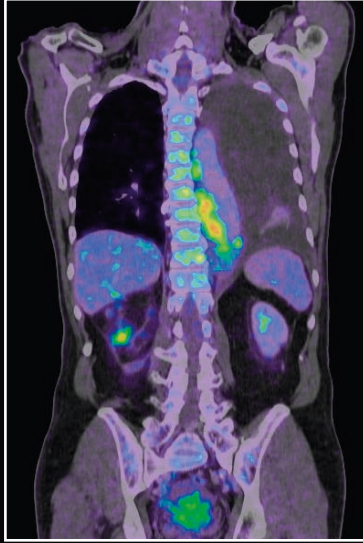
Comprehensive PET segmentation and evaluation
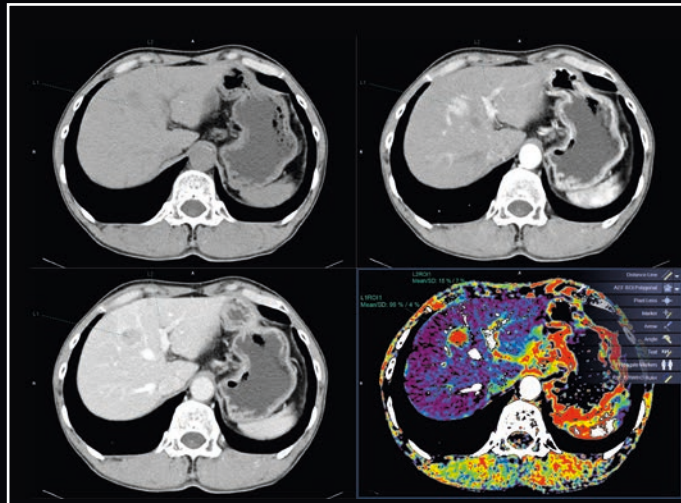*syngo*.PET Segmentation[1]

Assessment and therapy monitoring of lung parenchyma diseases
syngo.CT Pulmo 3D[1]

Quantitative oncological assessment with Dual Energy
syngo.CT DE Virtual Unenhanced[1]

Bony structures and lesions at a glance
syngo.CT Bone Reading[1]

Assessment of the Arterial Enhancement Fraction (AEF) of multi-phase abdominal CT
syngo.CT Onco Function – Hepatic AEF[1]

In the event that upgrades require FDA approval, Siemens cannot predict whether or when the FDA will issue its approval. Therefore, if regulatory clearance is obtained and is applicable to this package, it will be made available according to the terms of this offer.

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