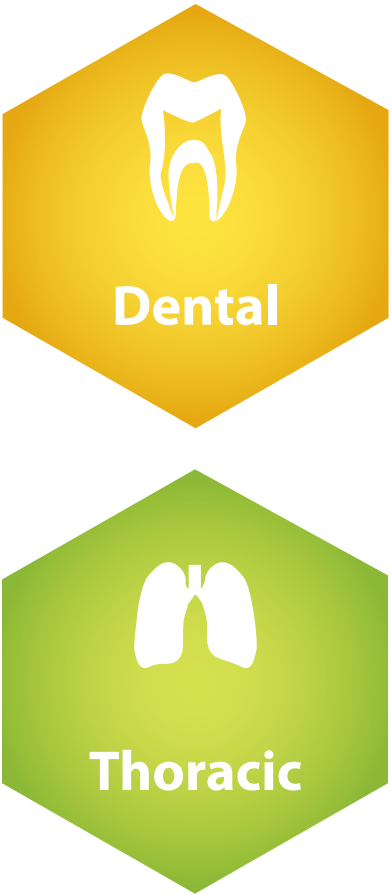


Comprehensive CT/MR Insight

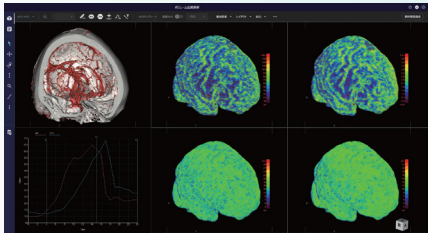
Advanced Visualization Clinical Applications



Advanced clinical applications spanning a broad range of anatomy and physiology across multiple specialties, on a vendor-neutral platform.



CTApplication
Volume Perfusion Analysis



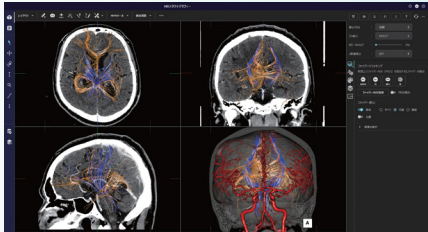
Analyzes blood flow of the brain or abdomen using volumetric data scanned over time. Multiple perfusion maps are available, including BF, BV, TTP and MTT.

CTApplication
CT Perfusion Analysis



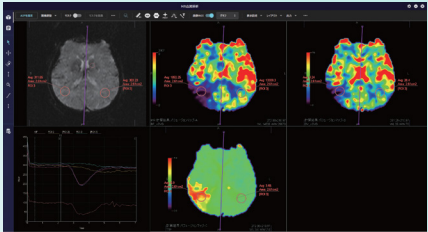
Analyzes blood flow of the brain or abdomen using data scanned at the same cross-section over time. Multiple perfusion maps are available, including BF, BV, TTP and MTT.

MR Application
MR Tractography



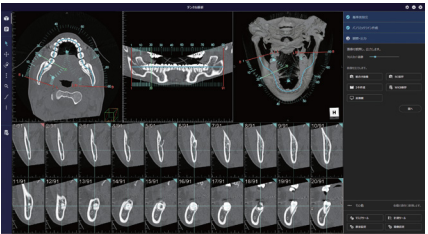
Displays fiber tracking from DTI (diffusion tensor imaging) data. Nerve fibers can also be fused with CT and other MR images.

MR Application
MR Brain Perfusion Analysis



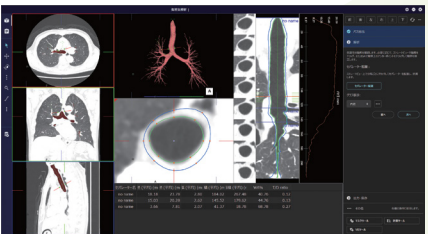
Analyzes blood flow of the brain using data scanned at the same cross-section over time. Multiple perfusion maps are available, including BF, BV, TTP and MTT.

CTApplication
Dental Viewer



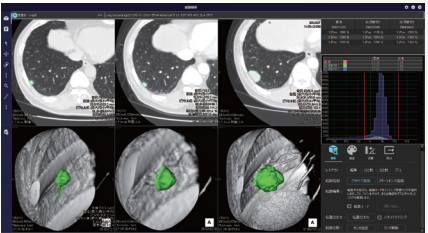
Displays panoramic and cross-cut images generated by curved MPR from CT images.

CTApplication
Bronchus Analysis



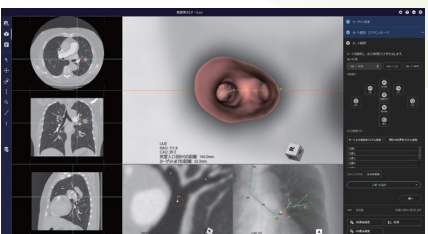
Automatically extracts the bronchi from CT data. The bronchus centerline can be created by one click. Wall thickness and other measurements are available for quantitative assessment of the bronchi.

CTApplication
Lesion Analysis



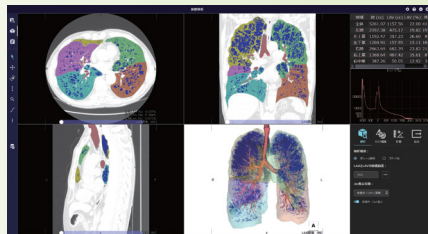
Extracts lung lesions and measures their volumes and diameters. Changes in the lesion over time can be observed.

CTApplication
Virtual Bronchoscopy



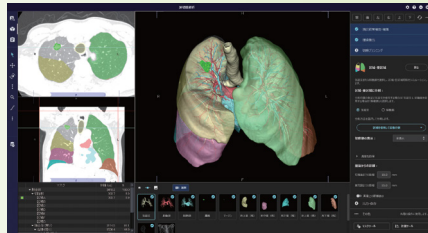
Using chest CT data, this protocol extracts the bronchi, and creates and navigates a virtual bronchoscopic pathway.

CTApplication
Pulmonary Analysis



Automatically extracts bronchi, lung fields and lung lobes from CT chest data. Low attenuation area and volume can be measured, and the Goddard Score can be calculated.

CTApplication
Lung Resection Planning

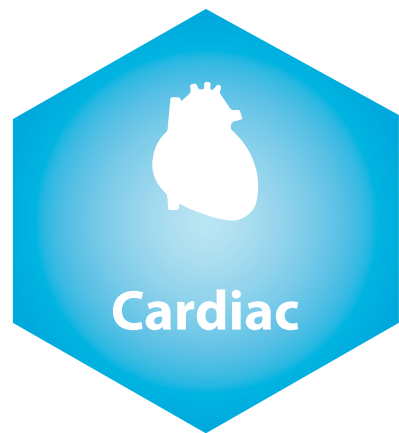


Automatically extracts the bronchi, lung lobes, PA, PV from contrast or non-contrast CT chest data, and shows their positions with lesions. The area to be resected can be simulated.

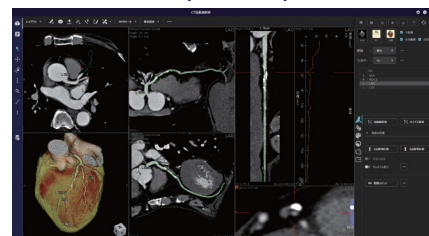
Head

Dental

Thoracic

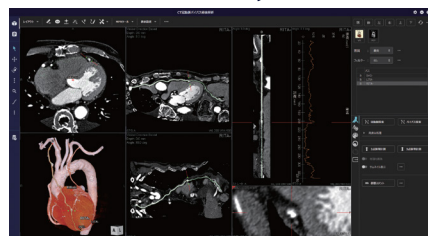


CTApplication CT Coronary Analysis



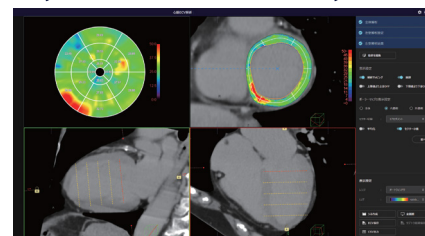
Automatically extracts and labels the coronaries and displays in CPR, straight view and short axis view. Vessel stenosis and plaque can be measured.

CTApplication Post-CABG Analysis



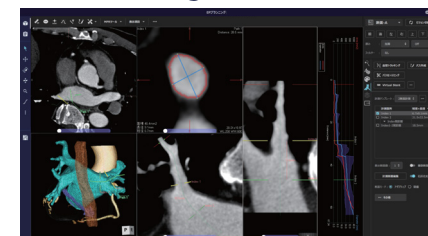
Automatically extracts and labels the coronary artery bypass vessel and displays in CPR, straight view and short axis view.

CTApplication Myocardial ECV Analysis



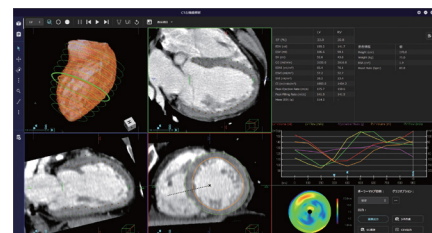
Extracellular volume fraction (ECV) is calculated and mapped using hematocrit values from non-contrast and delayed images or iodine maps.

CTApplication EP Planning



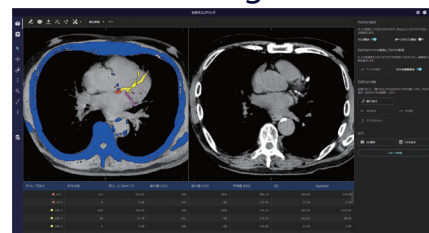
Automatically extracts the LA, PV, coronary sinus and arteries, and esophagus from contrast CT images. VR, VE views and measurement of PV are available.

CTApplication CT Cardiac Function



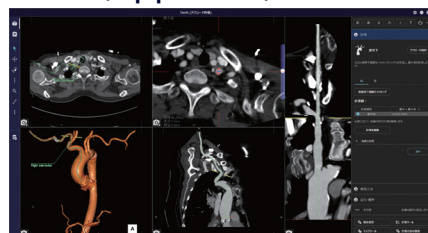
Automatically extracts the myocardial contours of the LV and endocardial contours of the RV. Calculations include ejection fraction and LV wall thickness.

CTApplication Calcium Scoring



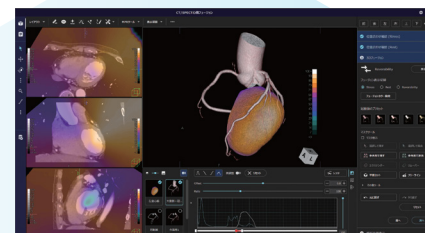
Using non-contrast CT, coronary artery calcification is automatically scored and labeled. Agatston scores, volume scores, and voxel counts are calculated.

CTApplication TAVR (Approach)



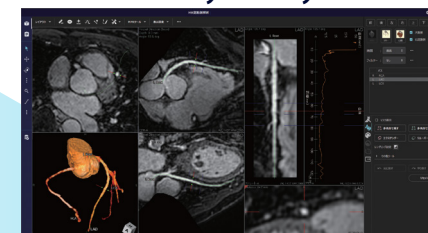
Evaluate the femoral, subclavian or transapical approach required before TAVR procedures.

CTApplication CT/SPECT Cardiac Fusion



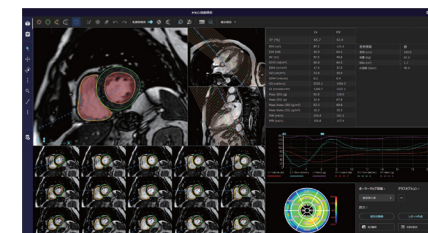
Displays fusion of SPECT and CT images. Reversibility and washout rate are automatically calculated and mapped in Stress and Rest.

MRApplication MR Coronary Analysis



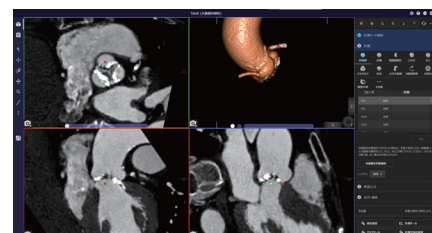
Automatically extracts and labels the coronaries and displays in CPR, straight view and short axis view.

CTApplication MR Cardiac Function



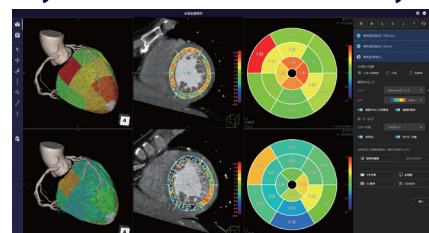
Automatically extracts the myocardial contours of the LV, and calculates ejection fraction, wall thickness, wall thickness ratio and regional wall motion. RV ejection fraction is available.

CTApplication TAVR (Aortic Valve)



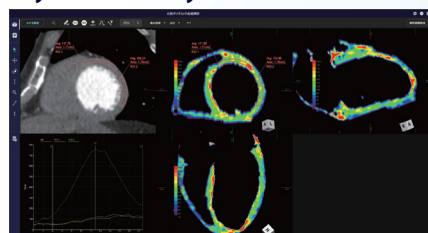
Measures the aortic valve for TAVR planning.

CTApplication Myocardial Perfusion Analysis



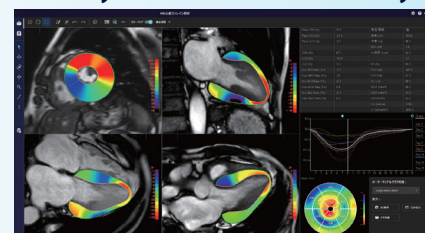
Assessment of LV myocardial blood flow as transmurial perfusion ratio can be done using contrast-enhanced CT data at stress and at rest.

CTApplication Dynamic Myo. Perfusion



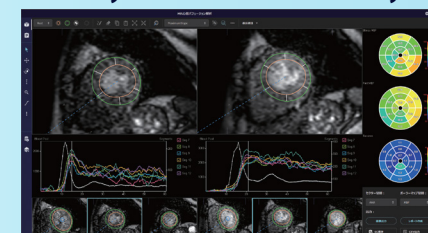
Enables analysis of myocardial perfusion from contrast-enhanced CT volumetric data of the heart acquired over time. Blood volume and blood flow maps are available.

MRApplication MR Myocardial Strain Analysis



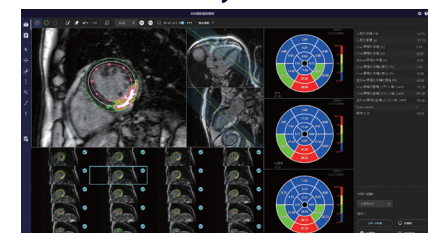
Measures myocardial strain from automatically extracted LV myocardial contours from multi-phase cine MR heart data. Color maps, graphs and polar maps can be displayed.

MRApplication MR Myo. Perfusion Analysis



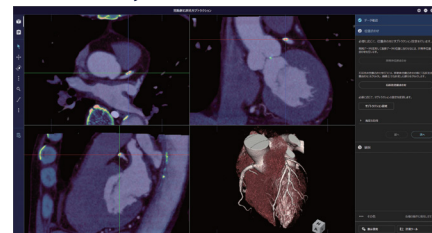
Allows for quantitative assessment of myocardial ischemic area from perfusion data. The myocardial contours of the LV are automatically extracted.

MRApplication MR LGE Analysis



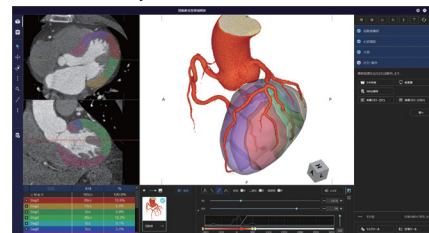
Displays the location and extend of high signal areas from delayed contrast enhanced images. Enables assessment of regional myocardial viability with a polar map.

CTApplication Coronary Calcium Subtraction



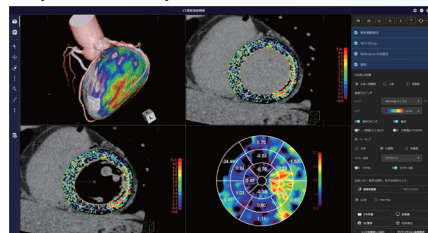
Subtracts pre- and post-contrast CT images of coronary arteries and shows the results in VR and MIP.

CTApplication Coronary Territories



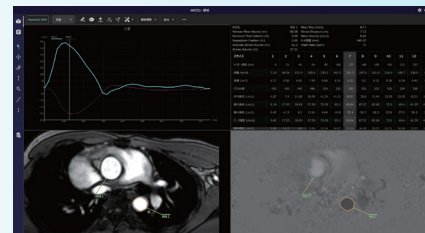
Segments the coronaries and myocardium using contrast enhanced CT images and provides volumes of myocardium segments.

CTApplication Myo. Delayed Enhancement



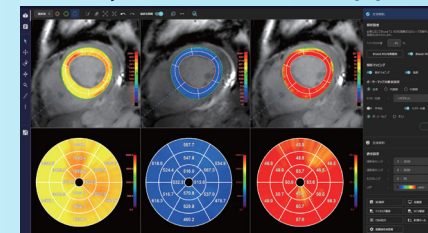
Using coronary delayed contrast CT data, delayed enhancement is calculated using SD or FWHM methods and mapped to SA cross-sections and 3D images.

MRApplication MR Flow



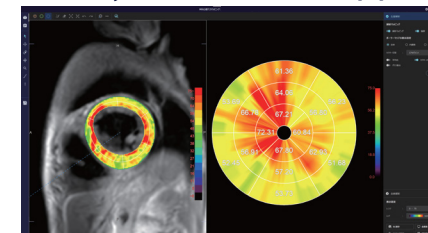
Calculates blood flow and velocity of the specified vessel. Qp/Qs can be measured from two series.

MRApplication MR Myocardial T1 Mapping



Measures and maps T1 values from cardiac MR data with T1 changes over time. Polar map of ECV is also available using pre-and post-contrast data.

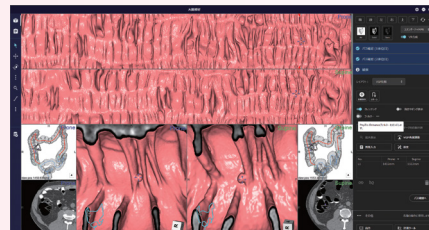
MRApplication MR Myocardial T2 Mapping



Measures and maps T2 values from data acquired at several different TEs. The T2 values for the whole, endocardium, and epicardium are displayed as polar maps.

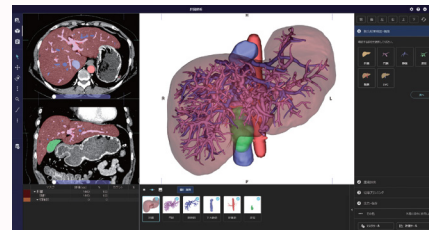
Abdominal

CT Application Colon Analysis



Automatically extracts colon centerline, shows file and virtual endoscopic views. Supports dual positions, digital cleansing, auto measurements.

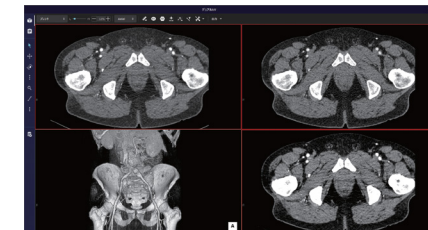
CT Application Liver Analysis



Supports liver resection planning. Features include non-rigid registration, auto extraction of liver vasculature, and volume measurements.

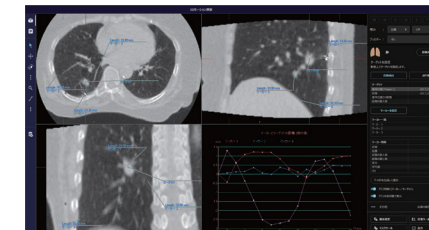
All-around

CT Application Dual kV



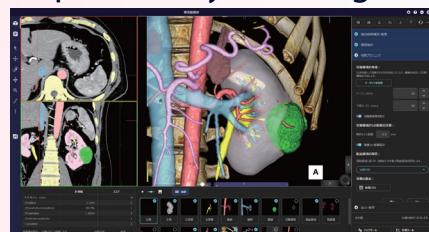
Generates blended, subtraction and virtual non-contrast (VNC) images using CT data of different tube voltages.

CT Application IG Motion Measurement



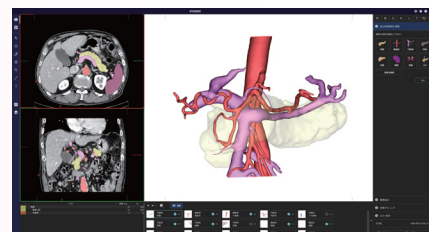
Using dynamic CT chest or abdomen data scanned under natural breathing, track and measure a marker which suggests the position of a lesion.

CT Application Nephrectomy Planning



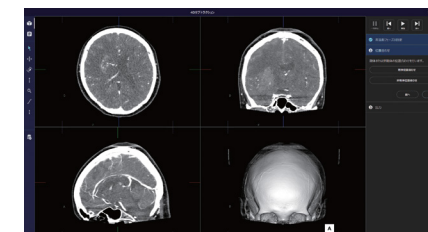
Automatically extracts the kidneys, arteries, veins and ureters, enabling 3D representation of tumor-vessel positioning and anatomy and resection simulation.

CT Application Pancreas Resection Planning



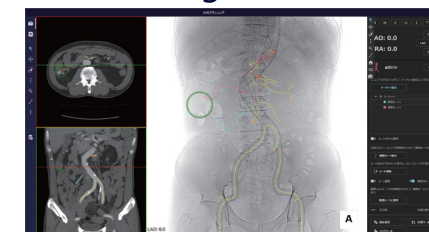
Automatically extracts the pancreas and its vasculature. Resection simulation and measurement of remnant pancreas volume are possible.

CT Application 4D Subtraction



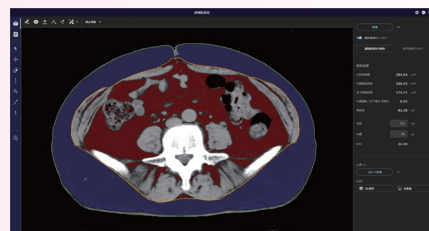
From contrast-enhanced CT volume data taken over time, a series of bones, etc. designated as plain data are subtracted using non-rigid registration.

CT Application IVR Planning



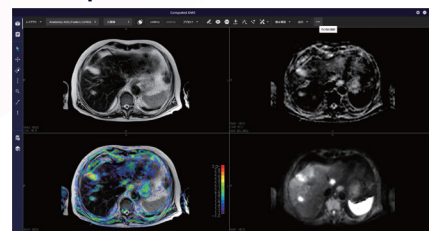
Shows the outline of large vessels from contrast CT images and displays position on a virtual fluoro image. Simulating probe position in drainage is also available.

CT Application Fat Measurement



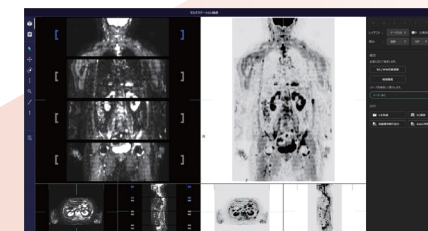
Measures distribution and area of subcutaneous and visceral fat and abdominal circumference.

MR Application Computed DWI



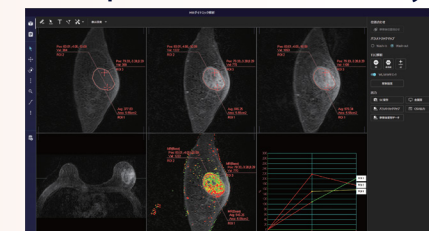
Create ADC maps, and computed DWI images with the desired b-value from two sets of DWI images with different b-values.

MR Application MR Combination



Enables opening multiple MR series of the same sequence captured at different positions to observe, combine, and save into one series.

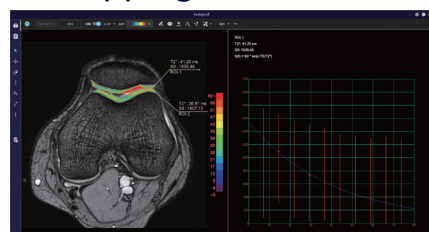
MR Application Multiparametric MR Analysis



Using contrasted dynamic MR images of regions such as breast gland or prostate, this protocol displays parametric maps calculated from changes in signal values.

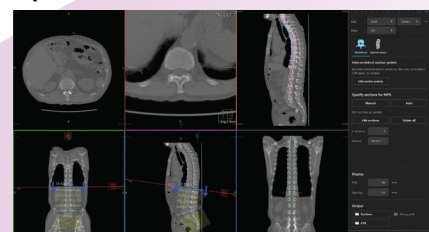
Extremity /Spine

MR Application Tx Mapping



Measures T2, T2*, or T1p values of the specified ROI and shows color maps.

CT Application Spine MPR Batch



Creates a series of sequential images of the vertebrae and intervertebral space, or along the curve of the spine. Auto-labeling of the vertebra is supported.

CT Applications

MR Applications

Head	<input type="checkbox"/> Volume Perfusion Analysis <input type="checkbox"/> CT Perfusion Analysis	<input type="checkbox"/> MR Tractography <input type="checkbox"/> MR Brain Perfusion Analysis
Dental	<input type="checkbox"/> Dental Viewer	
Thoracic	<input type="checkbox"/> Bronchus Analysis <input type="checkbox"/> Pulmonary Analysis <input type="checkbox"/> Lesion Analysis <input type="checkbox"/> Lung Resection Planning <input type="checkbox"/> Virtual Bronchoscopy	
Cardiac	<input type="checkbox"/> CT Coronary Analysis <input type="checkbox"/> Post-CABG Analysis <input type="checkbox"/> CT Cardiac Function <input type="checkbox"/> Calcium Scoring <input type="checkbox"/> TAVR (Approach) <input type="checkbox"/> TAVR (Aortic Valve) <input type="checkbox"/> CT Myocardial Perfusion <input type="checkbox"/> CT Myocardial Dynamic Perfusion <input type="checkbox"/> Coronary Calcium Subtraction <input type="checkbox"/> Coronary Territories <input type="checkbox"/> CT Myocardial Delayed Enhancement <input type="checkbox"/> CT Myocardial ECV <input type="checkbox"/> EP Planning <input type="checkbox"/> CT/SPECT Cardiac Fusion	<input type="checkbox"/> MR Coronary Analysis <input type="checkbox"/> MR Cardiac Function <input type="checkbox"/> MR Myocardial Strain Analysis <input type="checkbox"/> MR Myocardial Perfusion <input type="checkbox"/> MR LGE Analysis <input type="checkbox"/> MR Flow <input type="checkbox"/> MR Myocardial T1 Mapping <input type="checkbox"/> MR Myocardial T2 Mapping
Abdominal	<input type="checkbox"/> Colon Analysis <input type="checkbox"/> Fat Measurement <input type="checkbox"/> Liver Analysis <input type="checkbox"/> Nephrectomy Planning <input type="checkbox"/> Pancreas Resection Planning	<input type="checkbox"/> Computed DWI
Extremity /Spine	<input type="checkbox"/> Spine MPR Batch	<input type="checkbox"/> Tx Mapping
All-around	<input type="checkbox"/> Dual kV <input type="checkbox"/> IG Motion Measurement <input type="checkbox"/> 4D Subtraction <input type="checkbox"/> IVR Planning Multi-modality <input type="checkbox"/> 3D Standard <input type="checkbox"/> 4D Viewer <input type="checkbox"/> Cine Viewer <input type="checkbox"/> Fusion Viewer <input type="checkbox"/> Slab MIP <input type="checkbox"/> Subtraction	<input type="checkbox"/> MR Combination <input type="checkbox"/> Multiparametric MR Analysis

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