FUJIFILM
Value from Innovation

SYNAPSE 3D

Synapse 3D Clinical Application

Pancreas Analysis

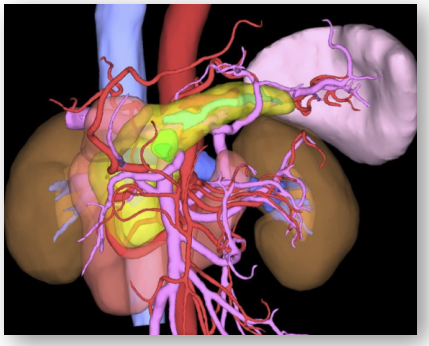
Automatically segment and extract the pancreas and nearby vessels and regions from contrast-enhanced CT images to display results in 3D for preoperative planning. The remnant pancreas volume and resection plane area can also be observed.

Recommended image type ▶ Contrast-enhanced CT images (up to three phases)
Analysis target ▶ Pancreas

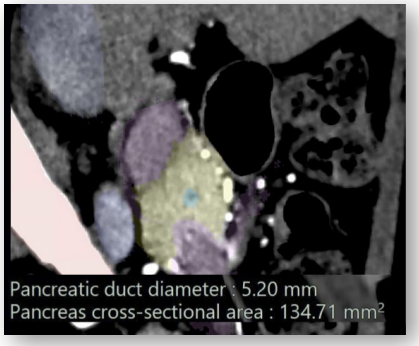
VARIOUS DISPLAYS FOR PREOPERATIVE PLANNING

Automatically extract vessels and regions for assistance with preoperative planning and volume calculation for pancreatectomy.

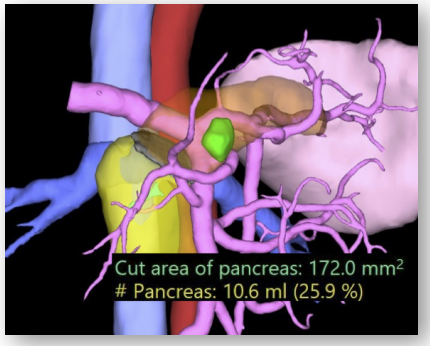
Display pancreas' peripheral region.



Measure resection plane and pancreatic duct diameter.

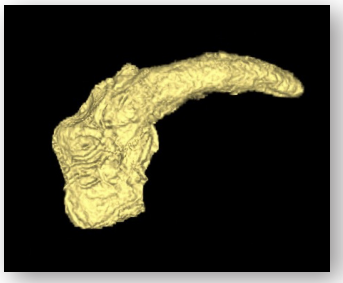


Calculate volume of remnant pancreas.

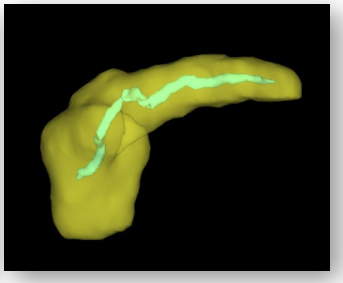


AUTOMATIC SEGMENTATION

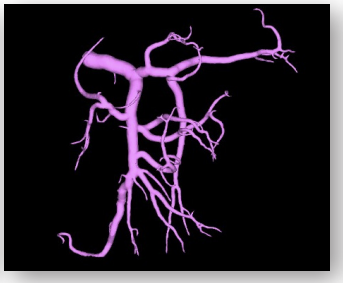
Pancreas



Pancreatic duct



Portal veins

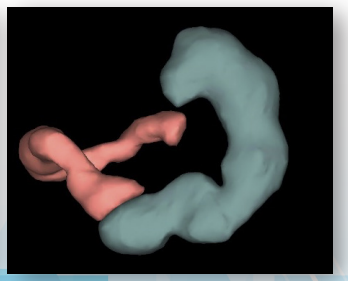


Arteries

Spleen

Kidney/renal vein

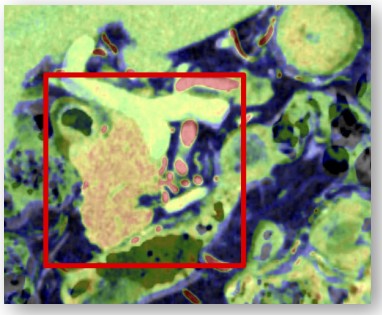
Stomach/duodenum



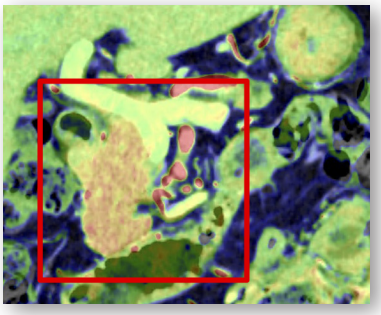
- Use deep learning functionalities trained by arterial and portal phase CT images to segment pancreatic parenchyma, duct, portal veins, arteries, etc.

IMAGE REGISTRATION

Rigid registration (linear)



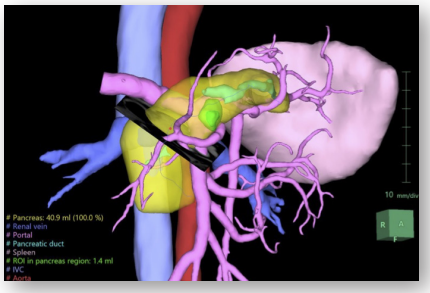
Non-rigid registration (deformed)



- See more accurate registration.

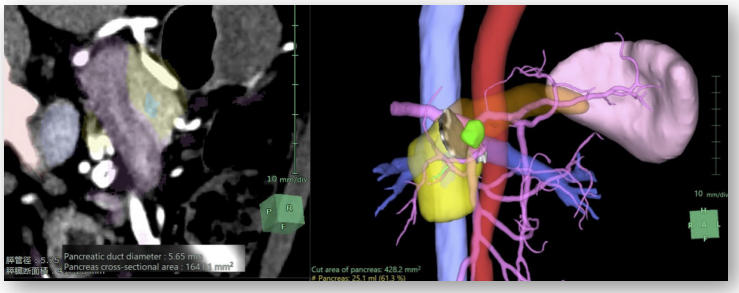
RESECTION PLANNING

Resection planning



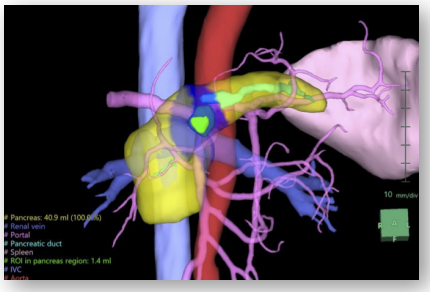
- Access from any position by moving 3D orthogonal plane.

Resection plane



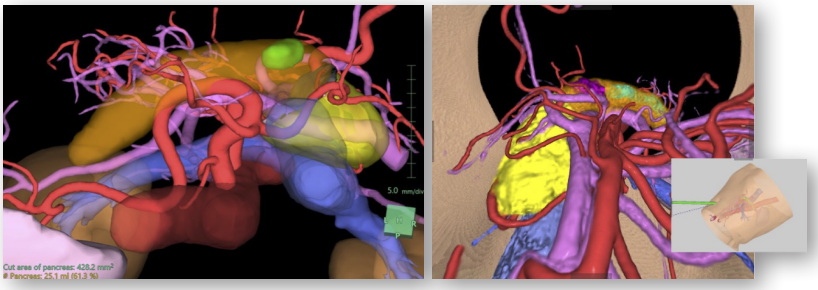
- View in 2D or 3D. Display orthogonal cross-section view to measure resection plane and pancreatic duct diameter.

Margin



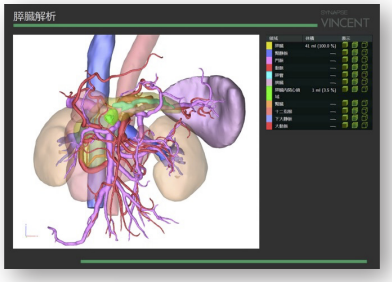
- Set pancreas as region of interest and adjust distance.

Operation simulation



- Adjust to an appropriate angle for presurgical planning. Resection simulation information can also be launched in the Endoscope Simulator.

Export as 3D PDF



- Use the surface option to export pancreas analysis results as 3D PDF for use in operating room.

To learn more, contact your local sales entity, or visit 3DEnterpriseImaging.com. *Please note: The content of the URL is for the US region. The actual solution may be different in your region.*

SYNAPSE® 3D

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