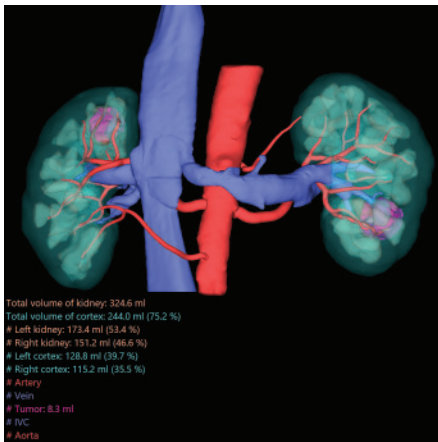




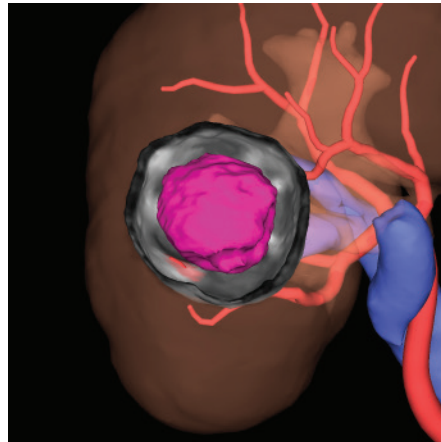
Visualize, plan and execute with 3D precision

Kidney Analysis

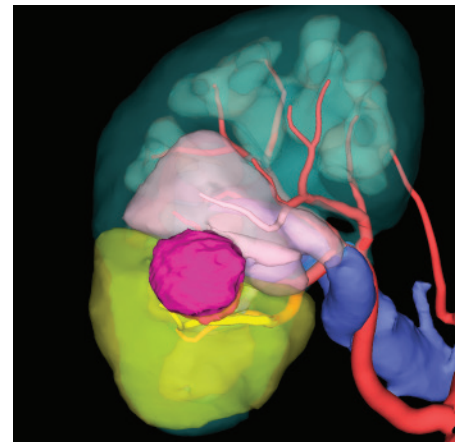
Partial Nephrectomy Planning



3D Image



Partial Nephrectomy Plan



Arterial clamping area

| Server | Minimum requirements |
|-----------------|---|
| OS | Microsoft® Windows Server® 2019 Standard Edition (x64) |
| CPU | Intel® Xeon® Processor 16 cores, 2.0 GHz, 2 CPUs |
| Main memory | 128 GB |
| HDD | SATA 7200 rpm For OS and software: 80 GB For DB: 500 GB For setting : 100 GB For images: depends on the image storage |
| Network adaptor | 1000 BASE-T |
| USB | 1 port |
| Graphic | VRAM : 2.0 GB, DirectX 11 |
| Monitor | SXGA (1280 x 1024) single screen |

| Stand-alone Laptop | Minimum requirements |
|--------------------|--|
| OS | Microsoft® Windows 10 Professional (x64) |
| CPI | Intel Core i7-78 20HQ 2.9GHz, Quad core |
| Main memory | 32 GB |
| HDD | 1 TB SATA 6.0 Gb/s NCQ HOD (7200 rpm) RAID1 |
| Network adaptor | 1000 BASE-T |
| USB | 1 port |
| Graphic | VRAM : 1.0 GB |
| Monitor | 17.3 Inch Full HD (1920x1080) LCD monitor LED backlight |

Synapse 3D surgical planning module for partial nephrectomy procedures provides surgeons with accurate data and tools to simulate procedures to aid in surgical precision and improved patient outcomes.

Not only can it simulate the procedure itself, but it can also simulate selective arterial clamping of the arteries contained in the area to be resected.

Additionally, it can also automatically separate and display the cortex and medulla of the kidney, to calculate the actual functional kidney volume in the area of selective arterial clamping and the remaining volume after partial resection.

- 3D Visualization of the kidney and surrounding organs for precise analysis and planning.
- Automatic segmentation kidney parenchyma, Kidney cortex, renal artery, renal vein, and surrounding organs to perform partial nephrectomy simulations. Easily extract kidney, renal cortex, vessels, renal sinus fat, and surrounding organs to perform nephrectomy simulations.
- Evaluate optimal kidney/cortex volume, and plan the surgical procedures accordingly.

