

KLARITY SGRT 4DCT Training

4DCT

PRAY



CT Operation

患者训练

预设置

选择门控模式

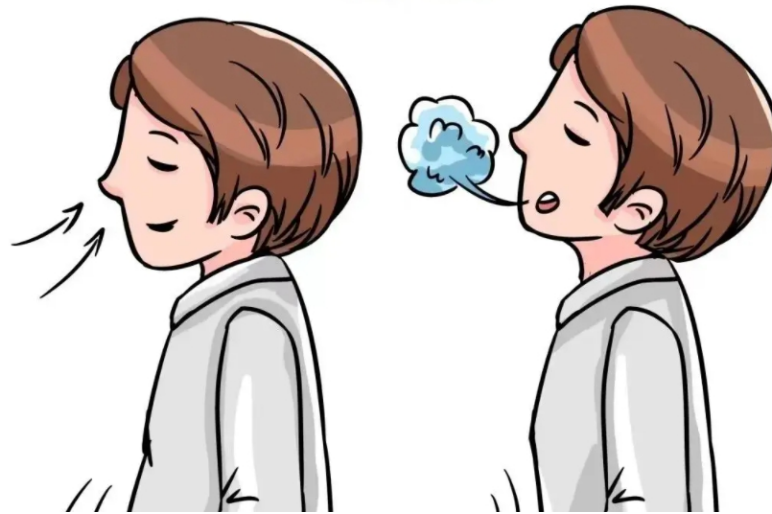
放置门控点

设置门控窗

4D影像重建

Training for free breathing
Avoid deep or large breathing phases during scanning.
Maintain regular and even breathing.
You can use counting breathing: silently counting "inhale-2-3,
exhale-2-3," focusing on the numbers and the flow of breath
to maintain an even inhalation and exhalation rate

呼吸训练



CT Operation

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预设置

选择门控模式

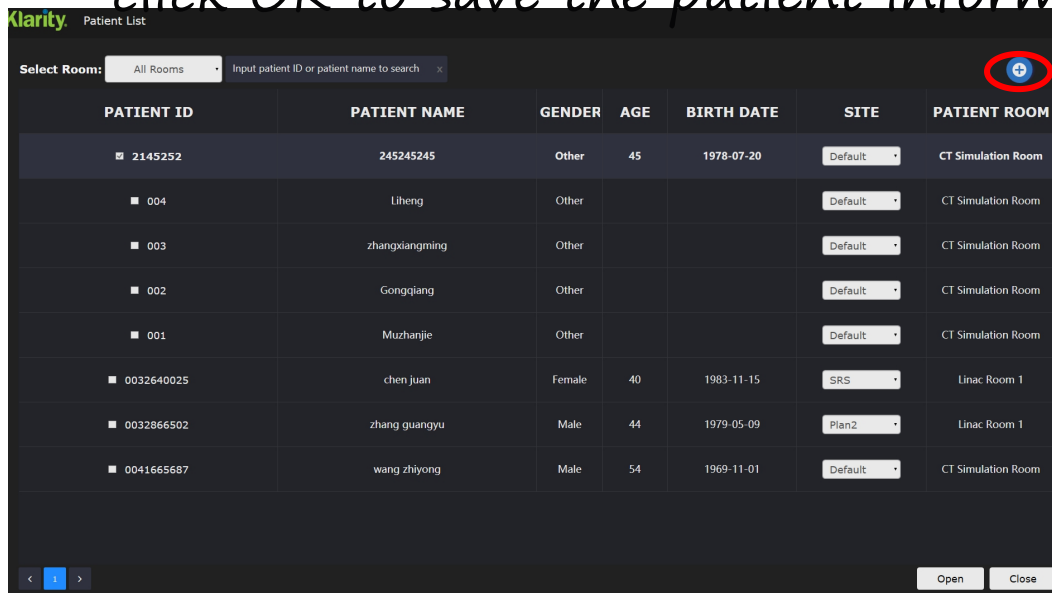
放置门控点

保存呼吸曲线

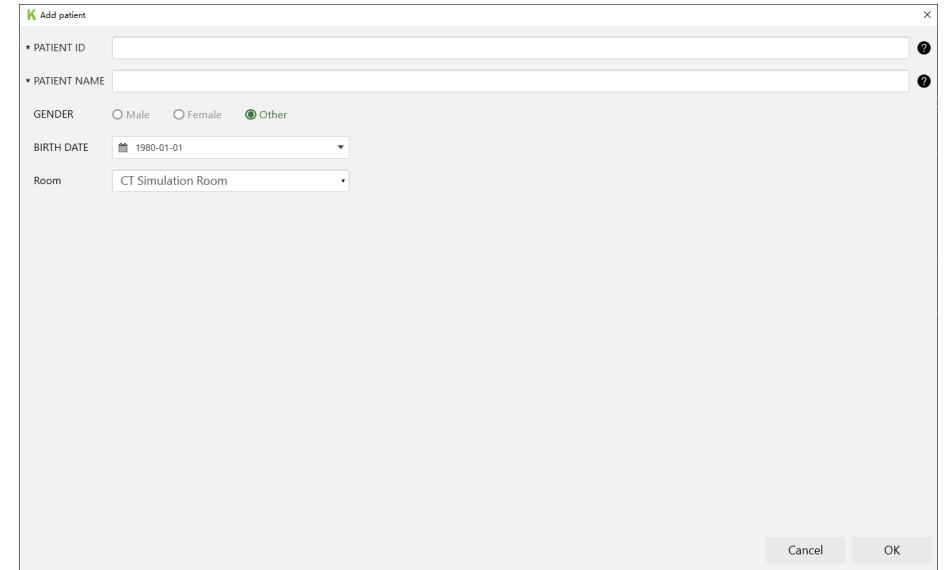
4D影像重建

Creating Patient Information

In the patient list interface, click the upper right corner to pop up the create patient dialog box. Enter the patient ID (consistent with the CT), name, and age as prompted, then click OK to save the patient information.



PATIENT ID	PATIENT NAME	GENDER	AGE	BIRTH DATE	SITE	PATIENT ROOM
2145252	245245245	Other	45	1978-07-20	Default	CT Simulation Room
004	Liheng	Other			Default	CT Simulation Room
003	zhangxiangming	Other			Default	CT Simulation Room
002	Gongqiang	Other			Default	CT Simulation Room
001	Muzhanjie	Other			Default	CT Simulation Room
0032640025	chen Juan	Female	40	1983-11-15	SRS	Linac Room 1
0032866502	zhang guangyu	Male	44	1979-05-09	Plan2	Linac Room 1
0041665687	wang zhiyong	Male	54	1969-11-01	Default	CT Simulation Room



K Add patient

* PATIENT ID

* PATIENT NAME

GENDER Male Female Other

BIRTH DATE 1980-01-01

Room CT Simulation Room

Cancel OK

CT Operation

患者训练

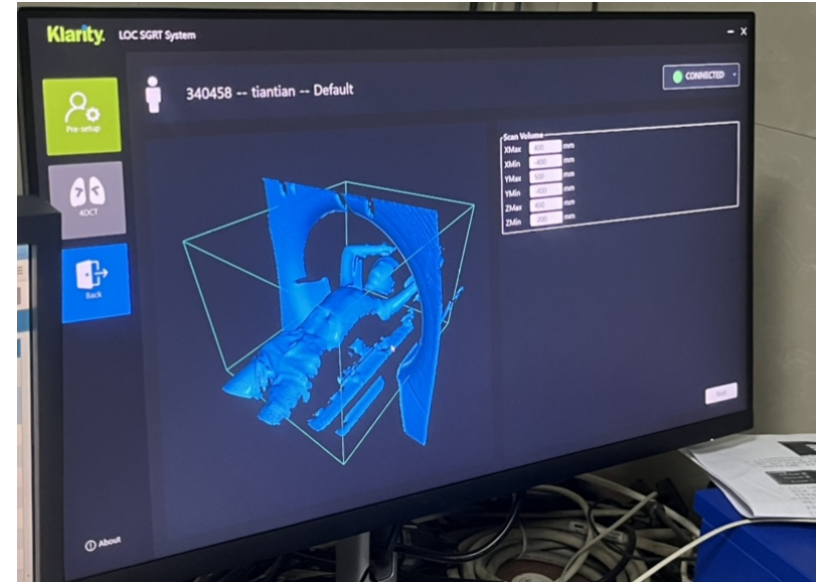
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4D影像重建



1. After the CT has completed the scanning of the localizer image and the CT table has been moved to the starting scan position,
2. use the mouse to drag and adjust the scan volume, removing the CT table, gantry, and fixation devices.
3. The recommended range should be consistent with the localizer image range

CT Operation Enter 4DCT

患者训练

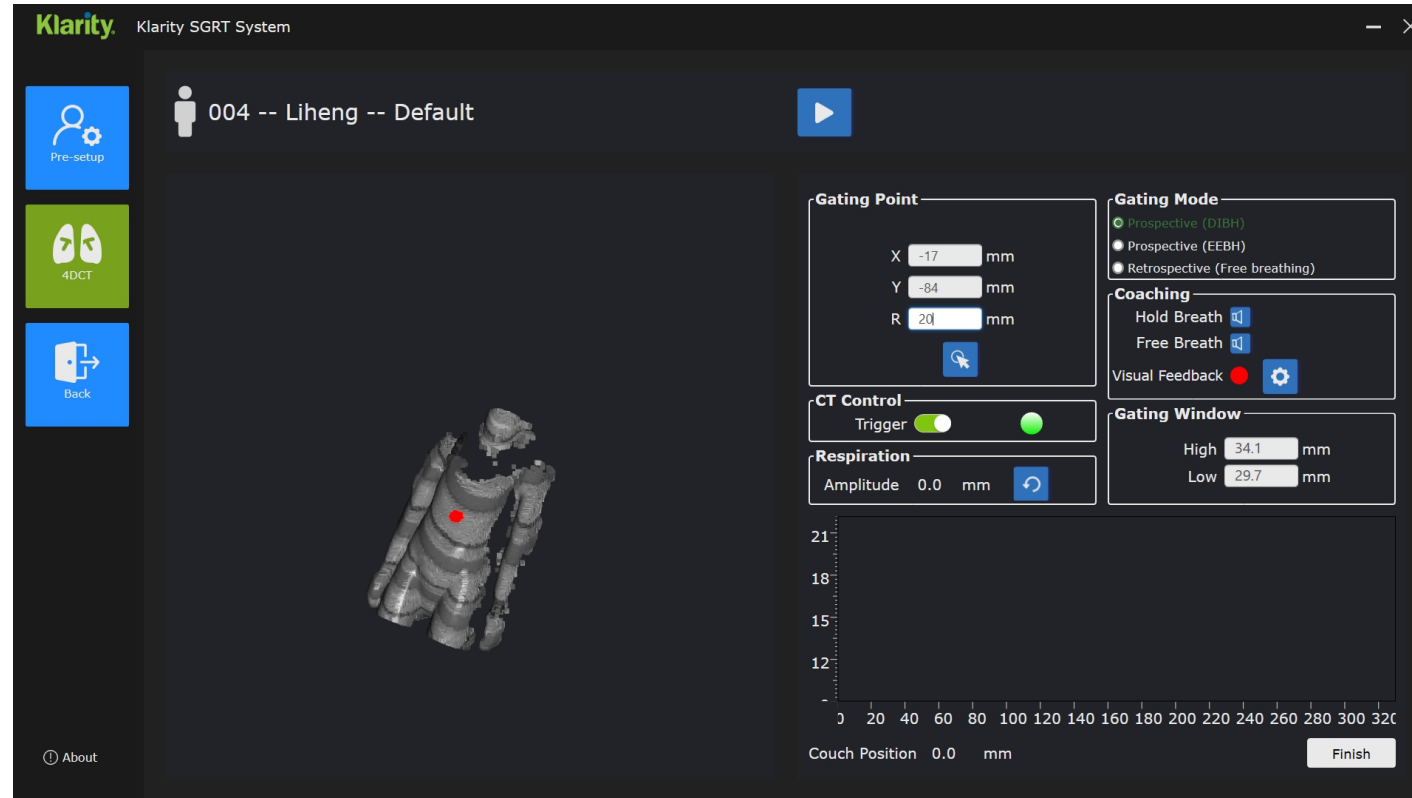
预设置

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4D影像重建



Next, jump to the Gating interface, where the system will automatically take a reference contour for respiratory gating and enter the Resp interface.

CT Operation

患者训练

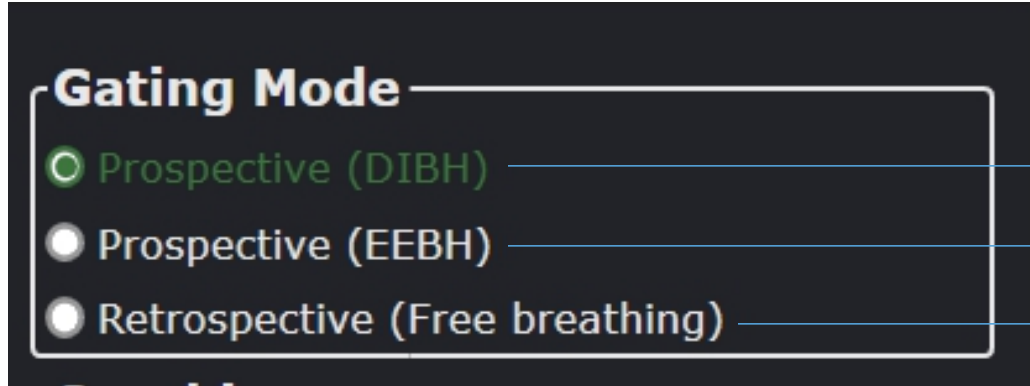
预设置

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4D影像重建



→ Prospective scan, deep inhalation breath-

→ Prospective scan, deep exhalation breath-

→ Retrospective scan, 4DCT scan

1. In the Gating mode, select retrospective (retrospective scan).
Voice guidance is enabled by default.
2. Currently, all large-bore CTs do not support automatic triggering and can only be manually triggered for scanning

CT Operation

患者训练

预设置

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放置门控点

保存呼吸曲线


4D影像重建

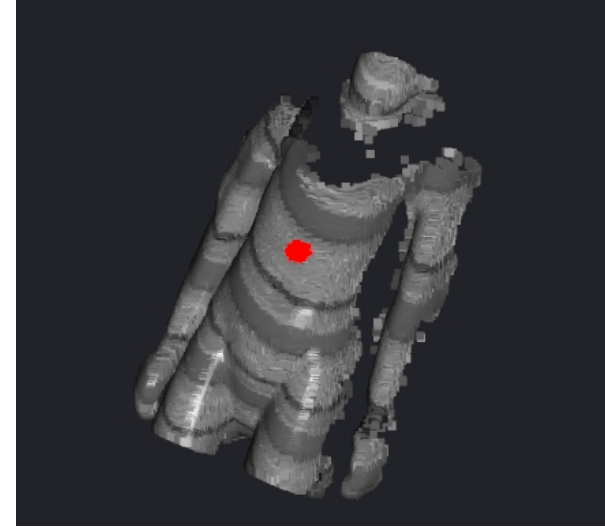
Gating Point

X mm

Y mm

R mm





Select the gating tracking point by clicking the icon inside the Gating point. A red dot will appear on the left reference surface. You can hold the left mouse button to drag the red dot to the appropriate location (a part with obvious respiratory movement), which is generally recommended to be between the xiphoid process and the navel

CT Operation

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预设置

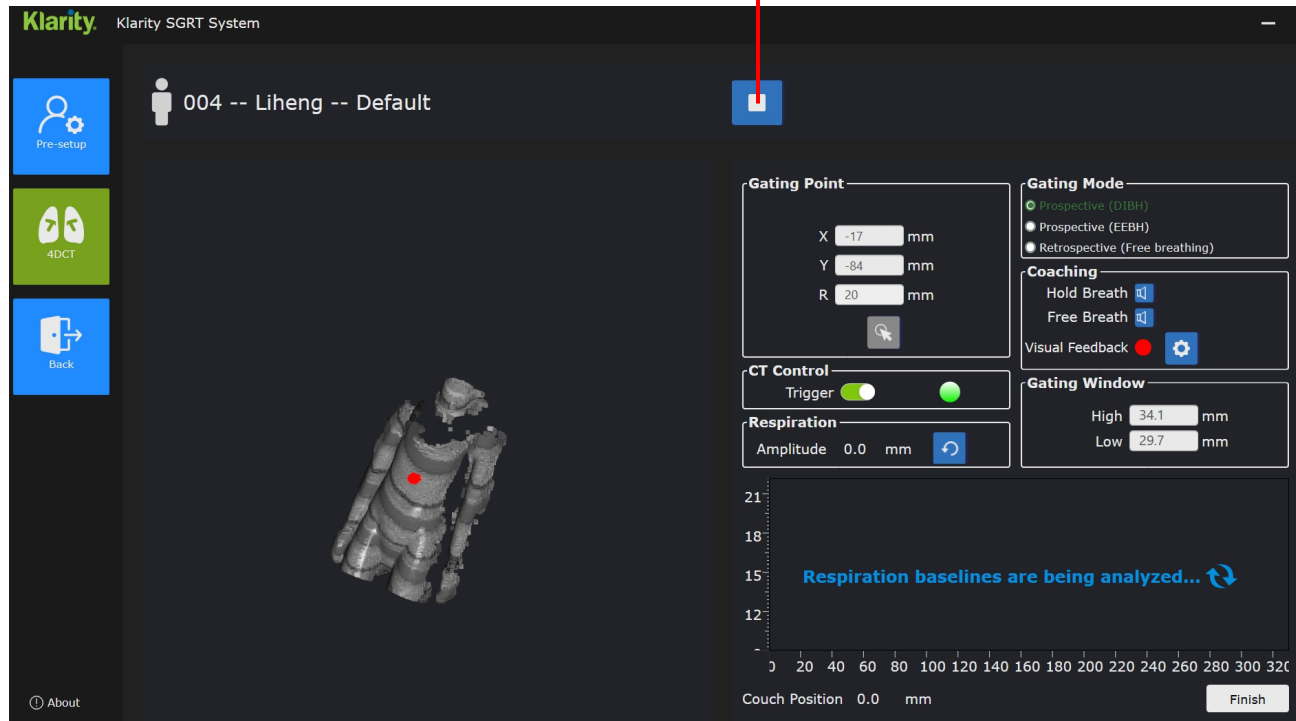
选择门控模式

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4D影像重建

Start Tracking



Click the acquisition button to begin monitoring the patient's respiratory changes. The system will automatically learn the respiratory cycle for 10 seconds to determine the reference phase cycle

CT Operation

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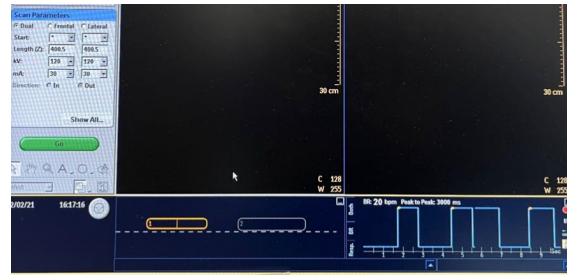
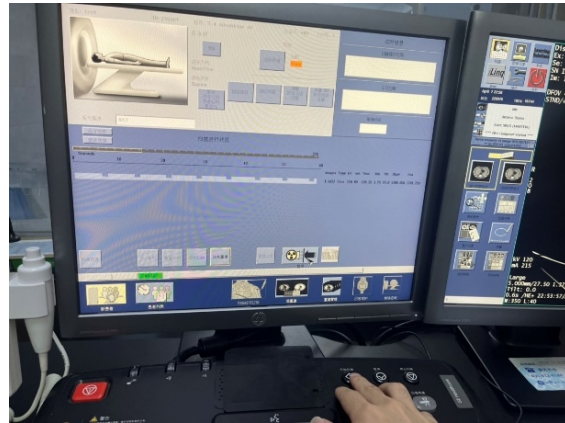
预设置

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Open the Trigger signal button. When the respiratory curve is regular, start the CT beam scanning. The system will automatically record the respiratory curve during the table movement and beam scanning

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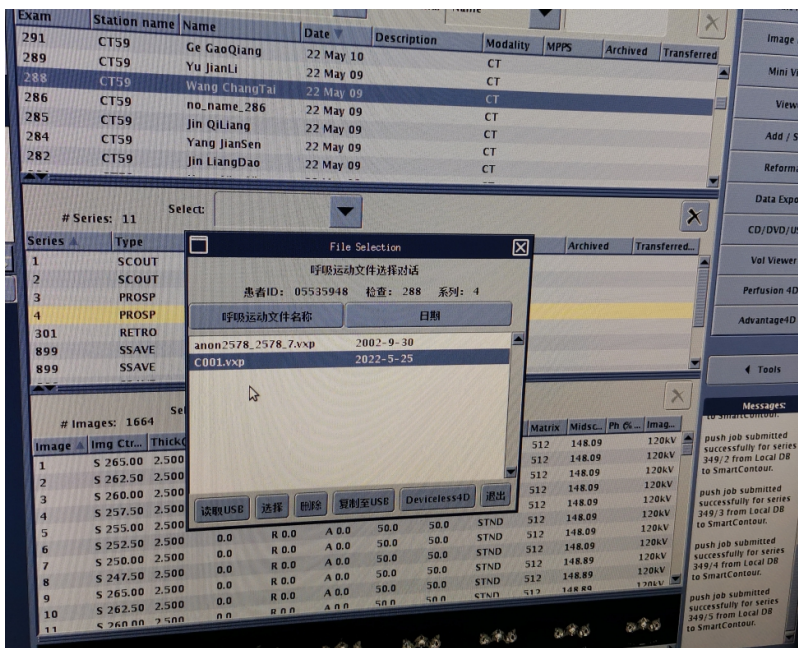
预设置

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After the CT scan is completed, first click to stop recording the respiratory curve. The system will automatically save the VXP file. The respiratory curve file will be automatically saved to the shared folder of the CT workstation. The 4DCT workstation will manually or automatically select the current patient's respiratory curve file for encoding and sorting to reconstruct the images, resulting in ten phases of four-dimensional images