

PH-49 | 41910-000

CT Colonography Phantom NCCS

Dosimetry

CT

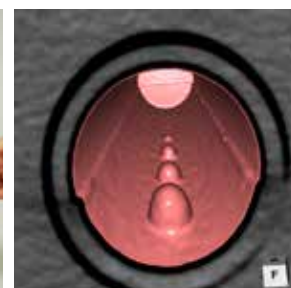


Innovative study tool for safe and effective CT Colon screening

Product supervision:
National Cancer Center (Japan)



SHOW MORE!



FEATURES

- Cylindrical colon units with targets that represent polyps can be set at the position of ascending colon, descending colon and rectum in the life-size lower torso phantom
- Four types of colon units are included for evaluation. Each unit has six targets lining in sequence on the inner wall of the unit
- Contrast agent can be poured into the colon units for tagging
- Pencil shaped ion chambers can be inserted in the center of the phantom for CTDI measurement

APPLICATIONS

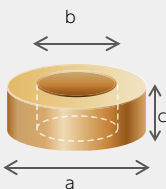
- Virtual colonography
- Visualization and detection of targets
- Study on optimal dose for low dose CT colonography
- Evaluation of accuracy of measurement (size, volume)
- Study on optimal density of contrast media

VARIATION of Simulated Tumors

Depressed type
-2 variations-



Virtual Endoscope View



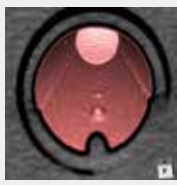
Depressed I: fixed diameter

a: Outer diameter	b: Inner diameter	c: Height
0.7 cm/ 0.27 in	0.35 cm/ 0.13 in	0.2 cm/0.07 in
		0.15 cm/0.06 in
		0.1 cm/0.03 in
		0.05 cm/0.02 in
		0.025 cm/0.01 in
		0.015 cm/0.005 in

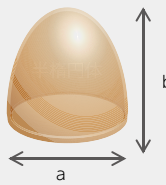
Depressed II: fixed height

a: Outer diameter	b: Inner diameter	c: Height
1.0 cm/0.39 in	0.5 cm/0.2 in	0.1 cm/ 0.03 in
0.7 cm/0.27 in	0.35 cm/0.13 in	
0.5 cm/0.20 in	0.25 cm/0.1 in	
0.3 cm/0.11 in	0.15 cm/0.06 in	
0.2 cm/0.07 in	0.1 cm/0.03 in	
0.1 cm/0.03 in	0.05 cm/0.02 in	

Projection type
-2 variations-



Virtual Endoscope View



Projection I: fixed diameter

a: Diameter	b: Height
1.0 cm/ 0.4 in	0.7 cm/0.27 in
	0.5 cm/0.20 in
	0.3 cm/0.11 in
	0.2 cm/0.07 in
	0.1 cm/0.03 in
	0.05 cm/0.02 in

Projection II: fixed ratio

a: Diameter	b: Height
1 cm/0.4 in	1.0 cm/0.39 in
0.7 cm/0.27 in	0.7 cm/0.27 in
0.5 cm/0.2 in	0.5 cm/0.20 in
0.3 cm/0.11 in	0.3 cm/0.11 in
0.2 cm/0.07 in	0.2 cm/0.07 in
0.1 cm/0.03 in	0.1 cm/0.03 in

DESCRIPTIONS

SET INCLUDES

1 lower torso phantom	1 plug for ion chamber hole
1 acrylic container	1 holder for colon unit
4 types of colon units	1 base holder
3 plugs for colon unit hole	1 storage case
1 plug with ion chamber hole	1 manual

SPECIFICATIONS

Packing size:
W63×D50×H29 cm
W24.8×D19.6×H11.4 in

Packing weight:
32 kg / 70.5 lb

MATERIALS

Soft tissue: urethane based resin (density: 1.06)
Synthetic bone: epoxy resin (density: 1.31)