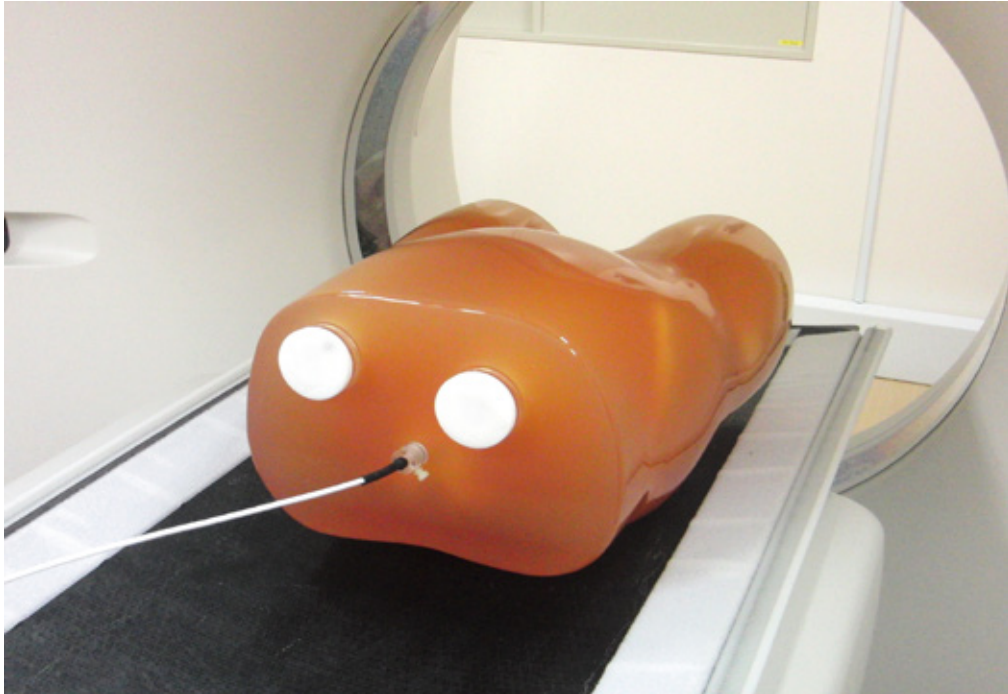


CT Colonography Phantom NCCS

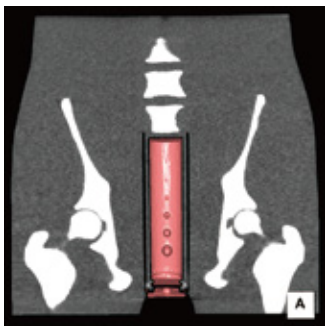
PH-49 41910-000

Product Supervision: National Cancer Center (Japan)

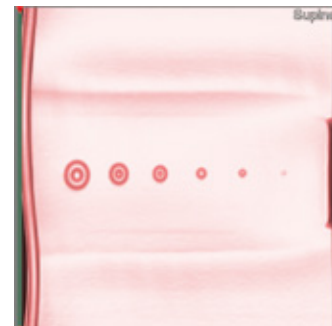


Innovative Study tool for safe and effective CT colon screening

Virtual Colonoscopy with CT colonography is a invasive and demanding examination for patients and people who undergo screening for polyps. CT colonography phantom NCCS provides ideal tool to evaluate preparation, including tagging and cleansing, protocol for CT scanning and software for interpretation.



Air Image View



Virtual Gloss Pathology View

Specifications are subject to change.

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Features

1 ● 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.

2 ● Four types of colon units are included for evaluation. Each unit has six targets lining in sequence on the inner wall of the unit. Depressed types are to evaluate tumor detection sensitivity, and projection types can be used to evaluate volume measurement accuracy.

Depressed I: circle targets with fixed diameter

Depressed II: circle targets with fixed height

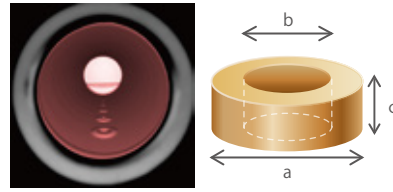
Projection I: half-ellipsoid sphere targets with fixed diameter

Projection II: half-ellipsoid sphere targets with fixed ratio

3 ● Contrast agent can be poured into the colon units for tagging.

4 ● Pencil shaped ion chambers can be inserted in the center of the phantom for CTDI measurement.

Depressed type
-2 variations-



Virtual Endoscope View

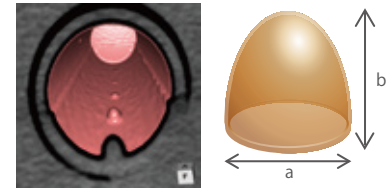
Depressed I: fixed diameter

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 inch	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 inch	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

Anatomies

- Spine, pelvis, femurs

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



Specifications

Materials

Soft issue: Urethane base resin

Synthetic bones: Epoxy based resin

Set Includes

- 1 Lower torso phantom (with three holes for colon units and one hole for ion chamber)
- 4 types of colon units (depressed I, depressed II, projection I and projection II)
- 3 plugs for colon unit hole
- 1 plug for ion chamber hole
- 1 acrylic container

