CT Colonography 16 GE

Indications	Screening
Diagnostic Task	Detect polyps and colon cancer
Scan mode	Helical
Position/Landmark	Head first-Supine S25-I500
Topogram	AP 120kV 10mA Lat 120kV 20mA
kVp/Reference mass	120kv Smart mA (100-440)
Rotation time/pitch	0.5/1.375:1
Detector Configuration	16x1.25
Table Speed/Increment	13.75
Dose reduction	Noise Index 24.68
Allowed CTDI ranges*	7mGy-50mGy
XR29 Dose Notification value	50mGy

Helical Set #1 supine

recon	body part	thickness spacing	algorithm	recon destination
1	abdomen/pelvis	2.5mmx 2.5mm	standard	pacs
2	abdomen/pelvis	1.25mmx0.625mm	standard	pacs/TR
3	sag abdomen	2mmx2mm	standard	pacs
4	coronal abdomen	2mmx2mm	standard	pacs

Helical Set #2 prone

recon	body part	thickness spacing	algorithm	recon destination
1	abdomen/pelvis	2.5mmx 2.5mm	standard	pacs
2	abdomen/pelvis	1.25mmx0.625mm	standard	pacs/TR
3	sag abdomen	2mmx2mm	standard	pacs
4	coronal abdomen	2mmx2mm	standard	pacs

Scan Start/end location	1cm superior to diaphragm(include all air)
	lesser trochanters
DFOV	40cm
	decrease appropriately
IV contrast volume/type	none
Scan delay	none
Prep	see prep worksheet
	see procedure worksheet for CO2 insufflation

Approximate Values for CTDIvol

Patient size	weight(kg)	weight(lbs)	CTDIvol(mGy)
SMALL	50-70	110-155	10-17
AVERAGE	70-90	155-200	15-25
LARGE	90-120	200-265	22-35

NOTE*

*The AAPM recommended NEMA XR29 Dose Notification Value for an adult torso is 50mGy. Dose Notification levels less than the AAPM recommended can be set. The maximum CTDI vol should match the dose notification value. Exams with CTDI vol values less than the minimum allowed range should not be performed unless approved by a radiologist.

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Approved by Dr Ellermier/Dr Mollard

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