

Computed Axial Tomography (CT) Protocol		
Title:	Body Imaging CT Protocol: Abdomen Pelvis Computed Tomography (CTA) With Contrast for Pre-Endograft Stent Graft	PRO-BI-CT-15
Issuing Department/ Committee/Body:	Body Imaging Section	Effective From 01 June 2022 Until Next Updated
Policy Owner:	Clinical Science Specialist (CSS) for CT	
Approval:	Body Imaging Section Physician Leads	

PROTOCOL

This set of guidelines was designed and intended for an average sized adult body habitus. Due to variations among scanners, it is not possible to document all parameters, however critical parameters are included and should be adhered to unless otherwise approved by the supervising radiologist.

No full scans should be repeated without radiologist direction; exceptions are short segment repeats due to gross patient motion or small range additional scans to include missed anatomy.

- Dose reference values (CTDIvol) are given based on a “per series” value and not in accumulated values unless otherwise indicated.

CPT CODE(S)

ANATOMY EVALUATED

Abdomen

INDICATION

History of abdominal aortic aneurysm (AAA), pre-operative evaluation of stent and/or graft placement, follow-up to a mesenteric angiography CT.

PREPARATION

Nothing by mouth (NPO) for 4 to 6 hours prior to examination.

Shielding should be utilized according to facility policy. If utilized, shielding for CT should only be used if the radiologist agrees that it will not interfere with the examination.

IMAGING

Body CT PROTOCOL: Abdomen and Pelvis CTA With Contrast for Pre-Endovascular Stent or Graft	
Localizer(s)	Frontal, Lateral if Required
Scan Series	Abdomen
Scan Phase	Arterial
Instructions	Inspiration
Contrast Agent	350-370
Volume and Rate	100-120ml/4.0-5.0ml per sec
Contrast Delay	Bolus tracked to aorta at celiac artery origin
Start	Above diaphragms
End	through pelvis
Scan Type	Helical
kVp	100-120
Target CTDIvol	<15 mGy
Max CTDIvol	25 mGy
Max Scan Time	26 sec
Pitch	0.9-1.75:1
DFOV	To body wall
Send to PACS	AX 1x1 standard
	COR 2x2 standard
	SAG 2x2 standard
	3D VRT or MIP

ASSOCIATED DOCUMENTS

- Patient Shielding for Procedures Using X-Rays
- Pediatric CT Protocol: Basic Operating Requirements and General Notes
- Uniform Guidelines for Use of Iodinated Agents

REFERENCES

This protocol is based on evidence-based techniques, Image Wisely guidelines, ACR dose limit recommendations, and with the consultation and review of board-certified body radiologists and board-certified medical physicists. They are designed to minimize the amount of radiation while maximizing the yield while producing diagnostically acceptable image quality.

REVIEW/REVISION HISTORY

Review/Revision	Summary of Review/Revision	Effective Date (month/day/year)
Original	Original document	06/01/2022
Revision	Unknown detail	05/03/2023
Revision	1. Transferred contents into the approved template.	03/12/2025
Revision	1. Removed Chest from title, added Abdomen and Pelvis.	07/31/2025

