

	mography (CT) Protocol	
Title:	Body Imaging CT Protocol: Abdomen and Pelvis Routine With Intravenous (IV) Contrast	PRO-BI-CT-33
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, pelvis

#### **INDICATION**

Suspected acute appendicitis, abdominal pain, fever of unknown origin (FUO), weight loss, bowel obstruction, nausea, vomiting, diarrhea, pancreatitis, elevated lipase and/or amylase, epigastric pain, pseudocyst, elevated liver function test (LFT), follow-up to an abdominal aortic aneurysm

#### PREPARATION

None

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 Routine With IV Contrast			
Localizer(s)	Frontal, Lateral if Required		
Scan Series	Abdomen and Pelvis		
Scan Phase	Portal venous		
Instructions	Inspiration		
Contrast Agent	300, 350, or 370		
Volume and Rate	80ml(370) - 100ml(300)/3.0-3.5ml per sec		
Contrast Delay	80 sec		
Start	Above diaphragms		
End	Below symphysis pubis		
Scan Type	Helical		
kVp	100-130		
Target CTDIvol	<15 mGy		
Max CTDIvol	25 mGy		
Max Scan Time	26 sec		
Pitch	0.9-1.75:1		
DFOV	To body wall		
	AX 1x1 standard		
Send to PACS	COR 2x2 standard		
	SAG 3x3 standard		

# 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