

# UT Southwestern Department of Radiology

**Protocol Name:** CT Head Without and With

**Orderable Name:** CT BRAIN W AND WO IV CONTRAST

Adult Only

**Epic Button:** Head W/O & W/

CTDIvol < 80 mGy

**Indications:** Infection, malignancy, AVM, aneurysm, stroke, seizures.

**# Acquisitions:** 2

Active Protocol

<b>Oral Contrast:</b> None	<b>IV Contrast:</b> <a href="#">Link to Contrast Information</a> <b>Rate (ml/sec):</b> 3 <b>Volume (ml):</b> 70 <b>IV Access:</b> Power injection: 20g or larger strongly preferred (if 22g use reduce rate to 2.5 mL/sec)  <b>Notes:</b> Saline Test Injection: 10 sec @ injection rate	<b>Other Contrast:</b> None	<b>Airway</b>  <b>Other Notes</b> No habitus specific kVp adjustment.  Utilize Dual Energy when available
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Last Change: 1/24/2024

Last Review: 1/8/2025

Links:

<b>Special Instructions</b>		Do not repeat CT scan, recon soft tissue from 1st acquisition Send soft tissue volume to PACS. Send low/hi kVp to SyngoVia.	
<b>Acq # / Series Name</b>	<b>1</b> Noncontrast	<b>N/A</b> Noncontrast	<b>2</b> Contrast
<b>Phase Timing</b>		N/A	60 seconds
<b>Acquisition Protocol</b>	<a href="#">Neuro Head</a>	<a href="#">Recon Only</a>	<a href="#">Neuro Head</a>
<b>Coverage</b>	Base of skull through vertex	Same	
<b>FOV</b>	200 mm	Same	200 mm
<b>Algorithm</b>	Bone	Soft Tissue	Soft Tissue
<b>Axial Recons</b>	5 mm	5 mm, 1 mm (volume)	5 mm, 1 mm (volume)
<b>Other Planar Recons</b>		3 mm coronal and sagittal	3 mm coronal and sagittal
<b>MIP Recons</b>			
<b>†DECT Philips</b>			
<b>†DECT Siemens</b>		1mm SPP	
<b>†PC-CT Siemens</b>			

† When dual energy (DE) or photon counting (PC) CT is used

