

# ROUTINE BRAIN GO UP

<b>Indications</b>	Intracranial bleed, mental status change, trauma, general screening, ha																																										
<b>Diagnostic Task</b>	Detect collections of blood; identify brain masses; detect brain edema or ischemia; identify shift in the normal locations of the brain																																										
<b>Scan Mode</b>	Helical																																										
<b>Position/Landmark</b>	Head or feet first-supine/ at chin																																										
<b>Topogram</b>	lateral 30mAs 130kVp																																										
<b>kVp/Reference mass</b>	130kv 206mAs																																										
<b>Rotation time/pitch</b>	1.0sec/0.55																																										
<b>Detector Configuration</b>	32x0.7																																										
<b>Table Speed/Increment</b>	12.32																																										
<b>Dose reduction</b>	na																																										
<b>Allowed CTDI ranges*</b>	30mGy-80mGy																																										
<b>XR29 Dose Notification value</b>	80mGy																																										
<b>Helical Set</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>recon</th> <th>body part</th> <th>thickness spacing</th> <th>kernel</th> <th>window</th> <th>recon destination</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>brain</td> <td></td> <td>1.5mmx 1.5mm</td> <td>Hv40</td> <td>cerebrum</td> <td>pacs</td> </tr> <tr> <td>2</td> <td>skull</td> <td></td> <td>1.5mmx1.5mm</td> <td>Hr60</td> <td>bone</td> <td>pacs</td> </tr> <tr> <td>3</td> <td>axial brain</td> <td></td> <td>5mmx 5mm</td> <td>Hv40</td> <td>cerebrum</td> <td>pacs</td> </tr> <tr> <td>4</td> <td>Sag</td> <td></td> <td>1.5mmx1.5mm</td> <td>Hv40</td> <td>cerebrum</td> <td>pacs</td> </tr> <tr> <td>5</td> <td>Cor</td> <td></td> <td>1.5mmx1.5mm</td> <td>Hv40</td> <td>cerebrum</td> <td>pacs</td> </tr> </tbody> </table>		recon	body part	thickness spacing	kernel	window	recon destination	1	brain		1.5mmx 1.5mm	Hv40	cerebrum	pacs	2	skull		1.5mmx1.5mm	Hr60	bone	pacs	3	axial brain		5mmx 5mm	Hv40	cerebrum	pacs	4	Sag		1.5mmx1.5mm	Hv40	cerebrum	pacs	5	Cor		1.5mmx1.5mm	Hv40	cerebrum	pacs
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<b>Scan Start/End</b>	1cm below maxilla in include sinus 1cm above skull vertex																																										
<b>DFOV</b>	25 cm decrease appropriately																																										
<b>IV contrast volume/rate</b>	80ml isovue 370 2cc/sec-Performed as directed by the supervising radiologist																																										
<b>Scan Delay</b>	90 second delay																																										
<b>note*</b>	<p>The Diagnostic Reference Dose (CTDI vol) is 75mGy(with 16cm CTDI phantom). The pass/fail limit (ACR and Washington state) is 80mGy. Most routine head scans on modern scanners have CTDIvol ranges between 40 and 60mGy.</p> <p style="text-align: center;">*The AAPM recommended NEXA XR29 Dose Notification Value for an adult head is 80mGy. The maximum CTDIvol 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.</p>																																										