

ED MRI ORDERING GUIDE (NEURO)

ANATOMY	REASON FOR EXAM	CERNER ORDERABLE
Brain	Cognitive impairment Confusion Dementia Headache (non-SAH suspected) Mental status changes Seizures (children) Trauma	MRI Brain wo Contrast
	Focal neurologic signs/symptoms Anosmia Cranial nerve lesions Dizziness/vertigo Headache with focal symptoms IAC/hearing loss Infection Multiple Sclerosis Neurofibromatosis (other phakomatoses) Neurological deficits Pituitary lesion Seizures (adult new onset) Known tumor/mass/metastases/cancer Vascular lesions	MRI Brain wo+w Contrast
Brain-Shunt Failure	Assess ventricular size and configuration, peds or adult	MRI Brain Ltd. (“One Bang/Single Shot”)
Brain-Stroke with Vascular Evaluation-with or without known mass (includes diffusion)	Stroke, CVA, TIA, dizziness/vertigo	<ol style="list-style-type: none"> 1. MRI Brain w/wo Contrast 2. MRA Neck with Contrast 3. MRA Head with Contrast
MRA Brain Circle of Willis	Aneurysm AVM (arteriovenous malformation)	MRA Head with Contrast
MRA Neck	Vertebral/carotid dissection	MRA Neck with Contrast
MRV Neck	Venous outlet obstruction Venous thrombosis	MR Angio Neck Venous wo Contrast (MRV)
MRV Brain	Sagittal sinus thrombosis	MR Angio Head Venous wo Contrast (MRV)
Neck Larynx Salivary Glands Parotid Glands	Infection Pain Tumor/mass/cancer/mets Vocal cord paralysis	MRI Orbits wo+w Contrast
Orbits	Grave’s Disease Trauma	MRI Orbits wo Contrast
	Vision Changes Exophthalmos Ptosis	MRI Orbits wo+w Contrast

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	<p>Pseudotumor Tumor/mass/cancer/mets Vascular lesions</p>	
Spine: Cervical	<p>Arm/shoulder pain and/or weakness Degenerative disease Disc herniation Neck Pain Post-op fusion Radiculopathy Spondylolisthesis</p> <p>-----</p> <p>AVM (arteriovenous malformation) Infection (discitis/osteomyelitis, epidural abscess) Multiple Sclerosis Myelopathy/paresthesia Syrinx Tumor/mass/cancer/mets Vascular lesions</p>	<p>MRI C-Spine wo Contrast</p> <p>-----</p> <p>MRI C-Spine wo+w Contrast</p>
Spine: Thoracic	<p>Back pain Compression fracture (no hx malig/mets) Degenerative disease Disc herniation Radiculopathy Trauma</p> <p>-----</p> <p>AVM (arteriovascular malformation) Compression fx (with hx malig/mets) Discitis/osteomyelitis Multiple Sclerosis Myelopathy Syrinx Tumor/mass/cancer/mets Vascular lesions</p>	<p>MRI T-Spine wo Contrast</p> <p>-----</p> <p>MRI T-Spine wo+w Contrast</p>
Spine: Lumbar	<p>Back pain Compression fracture (no hx malig/mets) Degenerative disease Disc herniation Radiculopathy Sciatica Spondylolisthesis Stenosis Trauma</p> <p>-----</p> <p>Compression fracture (hx malig/mets) Discitis/osteomyelitis Post-op Tumor/mass/cancer/mets Vertebroplasty planning (with hx malig)</p>	<p>MRI L-Spine wo Contrast</p> <p>-----</p> <p>MRI L-Spine wo+w Contrast</p>