Neurological Findings Common in Ehlers-Danlos Syndrome, Hypermobility Spectrum Disorder	Check if Present	IIH	CSF Leak/ Tarlov Cyst	Chiari Malfor- mation	CCI/ AAI	Tethered Cord	Arach- noiditis
HA Worse afternoon/evening			х	+/-	Х	+/-	+/-
HA Worse early morning		Х		+/-			
HA Worse upright/ better supine			Х		Х	х	Х
HA Worse Supine/ better upright		Х					
HA Worse with Valsalva		Х	Х	Х			
HA Better with Caffeine			Х				
HA Better with Compression			Х				
HA Better with C-collar					Х		
HA Top of Head		Х	+/-	+/-			
HA Occipital			Х	Х	Х	Х	Х
HA "Pressure"		Х		Х			
"Bobblehead"			Х		Х		
Interscapular Radiation			Х	х		х	Х
Vision/ Hearing Changes		Х	Х	Х	Х	+/-	+/-
"Brain Fog"		Х	Х	Х	Х	х	Х
Autonomic dysfunction/POTS		Х	Х	Х	Х		
Sensory Changes		Х	х	х	Х	х	Х
Weakness/Loss of Coordination		Х	Х	Х	Х	Х	Х
Tics/ Tremors/ Jerks		Х	х	х	Х	х	Х
Orthostatic Intolerance			Х	Х	Х		
Balance Disturbance/Dizziness		Х	Х	х	Х	х	
Dysphagia/ Speech Problems			Х	Х	Х		
Mood Changes		Х	Х	х	Х		+/-
Hormonal Changes		Х	Х				+/-
Nausea/Vomiting		Х	Х	х	Х		
Bowel/ Bladder Dysfunction		Х	Х	Х	Х	Х	Х
"Drop Attacks"				х	Х		
Changes in/Loss of Consciousness		Х	Х	Х	Х		
Seizure Activity		Х	х	х	Х		
Sleep Apnea/Breathing Disturbance		Х	Х	Х	Х		
Depersonalization/ Derealization		Х	х	х	Х		
Memory Loss		Х	Х	Х	Х	+/-	+/-

For further information, contact Brianna Cardenas, DMSc, PA-C, ATC:

https://www.healedandempowered.com

Brianna provides online consulting regarding these conditions.

MRI Recommendations to test for some of the above conditions:

- Cervical X-rays for initial instability eval: "X-rays of the C-spine AP/Lateral/odointoid + flexion/extension (please allow patient to go to end range of motion). Measure clivoaxial angle in each position."
- Brain MRI for high/low pressure, chiari, CCI, etc: "Brain MRI without contrast. Please include T2 sagittal and open image to capture C2. Please measure Clivoaxial Angle, Grabb-Oakes Measurement, Basion-Dens Interval, mammillopontine distance, prepontine cistern, supracellar cistern, interpeduncular angle, and pontomesocephalic angle. Please calculate BERN score."
- Cervical MRI for CCI eval: "Cervical MRI without contrast. Please capture above craniocervical junction (include clivus). Add flexion and extension views - please allow patient to go to end range of motion. Please measure Clivoaxial Angle, Grabb-Oakes Measurement, Harris Measurement, and Basion-Dens Interval. Please include coronal T2 view."
- Lumbar MRI for tethered cord: "Lumbar MRI without contrast with additional sagittal image in prone position. Please open image to capture mid T11-mid Sacrum. Please include T2 coronal view. Prone and supine imaging with measurement of conus movement in central canal"