

PROTOCOL: MRI PITUITARY WWO *PRE-OP* DYNAMIC

CLINICAL INDICATIONS/ HISTORY: pre-operative evaluation, microadenoma, pituitary mass, hyperprolactinemia; Pre-op with dynamic sequence (use if "rule out" adenoma or no confirmed diagnosis of adenoma) if this is the patient's first ever sella study, then use this protocol

TIPS: If can see the lesion on a prior examination on non-dynamic sequences, then can skip the dynamic series
 Dynamic images should be in a SINGLE series, not separate series.
 If gadolinium ordered, administer by weight for pediatrics up to 10 mL. Use no more than 10 mL for adults.
 Must use power injector for dynamic injection; start dynamic scan and injection at the same time.

SCAN ORDER	PLANE	IMAGE CONTRAST/WEIGHTING	MODE	PULSE SEQ	COVERAGE	TR RANGE	TE RANGE	TI	FLIP ANGLE	THICKNESS/GAP (mm)	FOV (cm)	Max Pixel (mm) Fr x Ph	PHASE AXIS	SEND TO PACS	Max scan time (target)
1	AX	T2FLAIR	2D	FSE	FORAMEN MAGNUM VERTEX	6000-15000	140-160	VARIES	>130	5/.5	24	.9X.9	RL	FULL SERIES	4:00
2	SAG	T1	2D	SE/FSE	COVER ENTIRE PITUITARY AND SELLA	<790	MIN	-	>130	2/.2	12-13	.9X.9	PA	FULL SERIES	4:30
3	COR	T2	2D	FSE	COVER ENTIRE PITUITARY AND SELLA	4000-7000	85-125	-	>130	2/.2	12-14	.75X.75	RL	FULL SERIES	4:00
4	COR	T1	2D	SE/FSE	COVER ENTIRE PITUITARY AND SELLA	<790	MIN	-	>130	2/.2	12-13	.9X.9	RL	FULL SERIES	4:30
CONTRAST: START INJECTION AND SERIES 5 DYNAMIC SCAN AT SAME TIME- SCAN MUST RUN FOR AT LEAST 2 MINUTES WITH SCAN TIME OF LESS THAN 25 SEC PER PHASE															
5+C	COR	T1 DYNAMIC	2D	FSE (DO NOT USE GRE)	COVER ENTIRE PITUITARY AND SELLA	<790	MIN	-	>130	3/0	14	1.0X1.0	RL	FULL SERIES	2:00
6+C	SAG	T1	2D	SE w/ Flow Comp	COVER ENTIRE PITUITARY AND SELLA	<790	MIN FULL	-	90	2/.2	12-13	.9X.9	PA	FULL SERIES	5:00
7+C	COR	T1	2D	SE w/ Flow Comp	COVER ENTIRE PITUITARY AND SELLA	<790	MIN FULL	-	90	2/.2	12-13	.9X.9	RL	FULL SERIES	5:00