

Updated 1/30/2025

BODY PART	INDICATIONS	PROTOCOL
<u>GENERAL</u> <u>ABD&PELVIS</u> <u>W/WO</u>	Must consult with a Body Radiologist prior to use of this protocol	<p>Coverage: Dome of Liver through the symphysis pubic</p> <p>Prep : Patient must be NPO 3 hours prior to their exam , Patient must complete an enema the morning of their exam in addition to being NPO</p> <p><u>T2 COR SS/TSE BH</u> – {6THK/1GAP} (smallest FOV possible) – Dome of Liver through pubic symphysis (as much of the pelvis as possible), POSTERIOR SKIN TO ANTERIOR SKIN</p> <p><u>T2 AX SS/TSE BH (HI-TE)</u> – {6THK/1GAP} (smallest FOV possible)– Dome of Liver through pubic symphysis (as much of the pelvis as possible), POSTERIOR SKIN TO ANTERIOR SKIN</p> <p><u>T2 AX SS/TSE FSAT BH</u> – {6THK/1GAP} – Dome of Liver through kidneys</p> <p><u>T1 AX TFE IN & OUT PHASE BH</u> – {6THK/1GAP} - Dome of Liver through kidneys</p> <p><u>DWI AXIAL B100 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER – Dome of Liver through kidneys</p> <p><u>DWI AXIAL B600 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER * COPY PREV B100– Dome of Liver through kidneys - please send ADC value to PACS</p> <p><u>T2 AX SS/TSE FSAT BH</u> – {6THK/1GAP} – Lower kidneys through pubic symphysis (as much of the pelvis as possible)</p> <p><u>3D T1 AX FFE</u> – {5THK/0GAG} (25 FOV) – Lower kidneys through pubic symphysis (as much of the pelvis as possible)</p> <p><u>DWI AXIAL B100 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER – Lower kidneys through pubic symphysis (as much of the pelvis as possible)</p> <p><u>DWI AXIAL B600 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER * COPY PREV B100– Lower kidneys through pubic symphysis (as much of the pelvis as possible)</p> <p><u>ABD*T1/3D AX VIBE/TIGRE PRE</u> – {6THK/0GAP} – DOME OF LIVER DOWN THRU KIDNEYS</p> <p><u>PELV*T1/3D AX VIBE/TIGRE PRE</u> – {6THK/0GAP} – Lower kidneys through pubic symphysis (as much of the pelvis as possible)</p> <p>INJECT CONTRAST - 2 ml/sec (20 SECOND DELAY SET ON MEDRAD INJECTOR)</p>

		<p><u>ABD*T1/3D AX VIBE/TIGRE IMMEDIATE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>ABD*T1/3D AX VIBE/TIGRE IMMEDIATE REPEAT C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>PELV*1/3D AX VIBE/TIGRE 1 MINUTE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>ABD*T1/3D AX VIBE/TIGRE 3 MINUTE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>ABD/PELV*T1/3D COR VIBE/TIGRE C+</u> – {6THK/0GAP} COVER SKIN TO SKIN</p>
<p>ADRENALS WO</p> <p>Charge as Abdomen wo</p>	<p>ADRENAL MASS, F/U TO CT</p> <p>*if concern Pheo, please see Pheo protocol</p>	<p>Coverage: Dome of Liver through the lower pole of kidneys, Smallest FOV possible</p> <p>Prep : Patient must be NPO 3 hours prior to their exam</p> <p><u>T2 COR SS/TSE BH</u> – {5THK/1GAP} (FOV: 25cm) – THRU ENTIRE ABD, POSTERIOR SKIN TO ANTERIOR SKIN</p> <p><u>T2 AX SS/TSE BH (HI-TE)</u> – {5THK/1GAP} (smallest FOV possible)– DOME OF LIVER DOWN THRU KIDNEYS</p> <p><u>T2 AX FS TSE</u> – {5THK/1GAP} (smallest FOV possible)– DOME OF LIVER DOWN THRU KIDNEYS</p> <p><u>T1 AX TFE IN & OUT PHASE BH</u> – {4THK/1GAP} *COPY PREV. AXIAL --smallest fov possible focused on adrenals/kidneys..</p> <p><u>T1 COR TFE IN & OUT PHASE BH</u> – {4THK/1GAP}</p> <p><u>DWI AXIAL B100 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER</p> <p><u>DWI AXIAL B600 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER * COPY PREV B100 please send ADC value to PACS</p>
<p>BLADDER</p> <p>Charge as Pelvis w/wo</p>	<p>Pain w/ urination, mass</p>	<p>Coverage: Iliac crest through the symphysis pubis</p> <p>Prep : Patient must be NPO 3 hours prior to their exam, Patient must complete an enema the morning of their exam in addition to being NPO **FULL BLADDER** patient should not void for 2 hours prior to the study</p> <p><u>T2 AX TSE</u> – {4THK/0.5GAP} (20 FOV– ENTIRE FULL PELVIS)</p> <p><u>T2 COR TSE</u> – {4THK/0.4GAP} (FOV – ENTIRE BLADDER)</p> <p><u>T2 AX TSE</u> – {4THK/0.4GAP} (20 FOV– ENTIRE BLADDER)</p> <p><u>T2 SAG TSE</u> – {4THK/0.4GAP} (20 FOV– ENTIRE BLADDER)</p>

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		<p>DWI AXIAL B100 BH/RESP – {4THK/0.4GAP} FOV DEPENDENT ON SCANNER</p> <p>DWI AXIAL B(800-1000) BH/RESP – {6THK/1GAP} FOV DEPENDENT ON SCANNER * COPY PREV B100 please send ADC value to PACS</p> <p>INJECT CONTRAST POWER INJECTED 2ml/s</p> <p>(DYNAMIC PRE/POST with 20 sec delay) T1/3D AX VIBE/TIGRE (20sec/40sec/60sec/80sec) – {ISOTROPIC VOXEL } (FOV – ENTIRE BLADDER/MATCH FOV FROM T2)</p>
CHEST WALL MASS	Follow Up to abnormal imaging, chest wall mass	<p>Coverage: Several centimeters above and below entirety of mass</p> <p>Prep: No Prep</p> <p>Ax T1 {4THK/1GAP} (18FOV) -</p> <p>Ax T2 FS {4THK/1GAP} (18FOV) –</p> <p>Ax DWI {4THK/1GAP} (18FOV) –</p> <p>Cor T1 {3THK/1GAP} (18FOV) -</p> <p>Cor T2 FS {3THK/1GAP} (18FOV) -</p> <p>Sag T1 {4THK/.5GAP} (18FOV) -</p> <p>Sag T2 FS {4THK/.5GAP} (18FOV) –</p> <p>Ax T1 FS {4THK/1GAP} (18FOV) -</p> <p>C+ Ax T1 FS {4THK/1GAP} (18FOV) - COPY ABOVE</p> <p><u>BEST OPPOSING PLANE EITHER SAG OR COR (MASS IN PROFILE)</u></p> <p>C+ Cor T1 FS {3THK/1GAP} (18FOV) -</p> <p>C+ Sag T1 FS {4THK/.5GAP} (18FOV) -</p>
RETROGRADE CYSTOGRAM	Post surgical anastomosis leak, evaluation of existing ureteral sphincters (if present)	<p>Coverage : Adrenals through Pubic Symphysis</p> <p>Prep : Patient must have in-place foley catheter, whether supra-pubic or urethral. Patient must be NPO 3 hours prior to their exam, Patient must complete an enema the morning of their exam in addition to being NPO</p> <p>**1.25ML CLARISCAN injected and mixed into 250ml Saline bag, to be given during examination, Radiologist may supervise open drip into foley</p>
Charge as Pelvis w/wo		

		<p>catheter. **</p> <p><u>3 plane loc NON BH –</u></p> <p><u>3 plane loc BH</u></p> <p><u>T2 COR (FASE-‘singleshot’) BH – {4THK/0 to -0.5 GAP} (variable FOV) cover adrenals to below symphysis, skin-to-skin</u></p> <p><u>T2 AX (FASE-‘singleshot’) BH – {6THK/1GAP} (variable FOV), cover adrenals to below symphysis</u></p> <p><u>T2 AX (TSE) FS BH – {6THK/1GAP} Same coverage as above, TSE sequence not ‘FASE’ or ‘SS’</u></p> <p>In/Out Phase AX BH- {6THK/1GAP} Same coverage as above</p> <p><u>(ABD) T1/3D AX FS VIBE/TIGRE /FE ABD PRE – {6THK/0GAP} Cover Abd, Same coverage as above</u></p> <p><u>(ABD) T1/3D AX FS VIBE/TIGRE /FE Pelvis PRE – {6THK/0GAP} Cover Pelvis, Same coverage as above</u></p> <p><u>T1/3D FS COR THRIVE/LAVA/FE PRE {6~7THK/0GAP} cover adrenals to below symphysis, skin-to-skin</u></p> <p>Clamp foley tubing to isolate collection bag, then RADIOLOGIST/RN/Tech Starts IV Drip wide open into foley catheter, Drip in As much as patient will tolerate, then clamp IV and continue. Patient may experience some discomfort, time scans accordingly.</p> <p><u>(ABD) T1/3D AX FS VIBE/TIGRE /FE ABD IMMEDIATE C+ {6THK/0GAP} Cover Abd, Same coverage as above</u></p> <p><u>(ABD) T1/3D AX FS THRIVE/LAVA/FE Pelvis IMMEDIATE C+ {6THK/0GAP} Cover Pelvis, Same coverage as above</u></p> <p><u>T1/3D FS COR VIBE/TIGRE /FE C+ {6~7THK/0GAP} cover S/A above</u></p> <p><u>T1/3D FS SAG VIBE/TIGRE /FE C+ {6~7THK/0GAP} cover adrenals to below symphysis, skin-to-skin</u></p> <p><u>T2 AX (TSE) FS BH C+ – {6THK/1GAP} Same coverage as above, TSE sequence not ‘FASE’ or ‘SS’</u></p> <p>Disconnect IV, UNCLAMP Clamp foley tubing to collection bag,</p> <p>(optional)T2 3D FS FASE/SS COR, (respiratory gated if poss.)- {~1.2-1.5mm THK/0GAP}</p>
<p>DEFECOGRAM</p> <p>Charge as Pelvis wo</p>	<p>Pelvic Floor Laxtivity, Constipation, Rectocele, Cystocele, “prolapse” or “- cele”, Uterine prolapse</p>	<p>Coverage : Must include all of Rectum</p> <p>Prep : Patient must complete an enema the morning of their exam in addition to being NPO, Pt can eat & drink as normal</p> <p>** INJECT (3 – 70ML SYRINGES) OR 210ML U/S GEL INTO RECTUM</p> <p><u>T2 COR SS/TSE BH – {5THK/1GAP} (30 FOV) – SKIN TO SKIN</u></p> <p><u>T2 SAG SS/TSE – {5THK/1GAP} (30 FOV) – ASIS TO ASIS</u></p> <p><u>T2 AX-OBLIQUE SS/TSE– {5THK/1GAP} (30 FOV) – ILIAC CREST THRU RECTAL CANAL</u></p>

		<p><u>T2 AX SS/TSE FSAT</u> – {5THK/1GAP} (30 FOV) – ILIAC CREST THRU RECTAL CANAL</p> <p><u>DYNAMIC SAG BFFE or TRUEFISP</u> – {7THK/0GAP} (26 FOV) – SLICE CENTERED IN RECTAL CANAL</p> <p><u>DYNAMIC SAG BFFE or TRUEFISP</u> – {7THK/0GAP} (26 FOV) – REPEAT A 2ND TIME</p> <p><u>DYNAMIC AX STACK BFFE or TRUEFISP</u>– {7THK/0GAP} (26 FOV) – ANGLE PERPENDICULAR TO RECTAL CANAL</p> <p><u>DYNAMIC COR BFFE or TRUEFISP</u>– {7THK/0GAP} (26 FOV) – SLICE CENTERED IN RECTAL CANAL</p> <p>Please Note : Ax-Oblique angle <u>Perpendicular</u> to the rectal canal</p> <p>Cor-Oblique angle <u>Parallel</u> to the rectal canal</p>
<p>ENTEROGRAM</p> <p>Charge as Abdomen w/wo</p>	<p>Crohn's Disease/Ulcerative Colitis/IBD/small bowel pathology/Internal or External Hernia</p>	<p>Coverage: Mid-Liver through the symphysis pubis</p> <p>Prep : Patient must be NPO 3 hours prior to their exam, Patient drinks 2 bottles Breeza or Volumen and 1 bottle of water on arrival, Drink 1 bottle every 15-20 mins, then wait 15 mins after last bottle before starting the exam. (NOTE: Breeza is contraindicated if patient has any sort of fruit allergy.)</p> <p>**IM GLUCAGON TO BE ADMINISTERED BY MA WHEN PATIENT GETS ON THE TABLE, WHEN MA NOT AVAILABLE PLEASE CALL RN**</p> <p>** ASK PT IF THEY HAVE PHEOCHROMOCYTOMA OR INSULINOMA, IF "YES" - GLUCAGON IS CONTRAINDICATED FOR THEM. SPEAK W/ A RAD CONCERNING THIS, SO THEY MAY DECIDE IF GLUCAGON WILL BE USED.</p> <p><u>T2 COR SS/TSE BH</u> – {6THK/1GAP} (30FOV) : SKIN TO SKIN</p> <p><u>T2 AX SS/TSE FSAT</u>– {5THK/1}{35FOV}</p> <p><u>T2 AX SS/TSE</u> – {5THK/1}{35FOV}</p> <p><u>CINE UROGRAM BH</u> – {80THK} (32FOV) : 10 DYNAMIC SCANS</p> <p><u>BFFE COR MULTI-SLICE MULTI-PHASE</u> – {10THK}{30FOV} : 11 SLICES W/ 15 DYNAMICS PER SLICE</p> <p><u>T1/3D AX PRE</u> – {6THK/0GAP} (30FOV)</p> <p>INJECT CONTRAST <i>HAND INJECT</i></p> <p><u>T1/3D AX VIBE/TIGRE IMMEDIATE C+</u> – {6THK/0GAP} (30FOV)</p> <p><u>T1/3D AX VIBE/TIGRE 1 MINUTE C+</u> – {6THK/0GAP} (30FOV)</p>

		<p><u>T1/3D COR VIBE/TIGRE C+ – {6THK/0GAP} (30FOV)</u></p> <p><u>DWI AX B800 – {6THK/1GAP} (35FOV)</u> please send ADC value to PACS</p>
<p>FEMALE PELVIS (HYSTERECTOMY)</p> <p>Charge as Pelvis w/wo</p>	<p>Ovarian Mass/Cyst, Pelvic Pain</p>	<p>Coverage : Iliac Crest through Pubic Symphysis</p> <p>Prep : Patient must be NPO 3 hours prior to their exam, Patient must complete an enema the morning of their exam in addition to being NPO **Pt must empty bladder prior to exam</p> <p><u>T2 SAG SS/TSE – {4THK/.4GAP} (30 FOV) – ASIS TO ASIS</u></p> <p><u>T2 COR SS/TSE – {5THK/1GAP} (30 FOV) – SKIN TO SKIN</u></p> <p><u>T2 AX SS/TSE FSAT – {5THK/1GAP} (30 FOV)</u></p> <p><u>T2 AX SS/TSE – {5THK/1GAP} (30 FOV)</u></p> <p><u>DWI AX B600 – {6THK/1GAP} (30FOV)</u> please send ADC value to PACS</p> <p><u>3D T1 AX FFE – {5THK/0GAP} (25 FOV)</u></p> <p><u>T1/3D AX-OBLIQUE VIBE/TIGRE PRE – {5THK/0GAP} (25FOV)</u></p> <p>INJECT CONTRAST <i>HAND INJECT</i></p> <p><u>T1/3D SAG VIBE/TIGRE 1 MINUTE C+ – {5THK/0GAP} (25FOV)</u></p> <p><u>T1/3D AX VIBE/TIGRE 2 MINUTE C+ – {5THK/0GAP} (25FOV)</u></p> <p><u>T1/3D COR VIBE/TIGRE 3 MINUTE C+ – {5THK/0GAP} (25FOV)</u></p>
<p><u>FEMALE PELVIS (W/ UTERUS)</u></p> <p>Charge as Pelvis w/wo</p>	<p>Ovarian Mass/Cyst, Adenexal Mass, Polycystic Fibrosis, Fibroids, Endometriosis * SEE NOTE, Menorrhagia, Amenoria, Pelvic Pain</p>	<p>Coverage : Iliac Crest through Pubic Symphysis</p> <p>Prep : Patient must be NPO 3 hours prior to their exam, Patient must complete an enema the morning of their exam in addition to being NPO **Pt must empty bladder prior to exam</p> <p>*ONLY if the diagnosis is specifically “Endometriosis”, give glucagon at the start of the procedure.</p> <p>**IM GLUCAGON TO BE ADMINISTERED BY MA WHEN PATIENT GETS ON THE TABLE, WHEN MA NOT AVAILABLE PLEASE CALL RN**</p> <p>** ASK PT IF THEY HAVE <u>PHEOCHROMOCYTOMA OR INSULINOMA</u>, GLUCAGON IS CONTRAINDICATED FOR THEM. SPEAK W/ A RAD CONCERNING THIS, SO THEY MAY DECIDE IF GLUCAGON WILL BE USED.</p>

		<p>**IM GLUCAGON -</p> <p><u>T2 SAG SS/TSE</u> – {4THK/.4GAP} (30 FOV) – ASIS TO ASIS -Must cover the uterus, cervix, adnexa and pelvic sidewalls</p> <p><u>T2 AX SS/TSE FSAT</u> – {5THK/1GAP} (30 FOV) -Must cover from iliac crests to vaginal introitus, Must cover pelvic sidewalls</p> <p><u>T2 AX-OBLIQUE SS/TSE</u> – {4THK/.4GAP} (30 FOV), ANGLE PARALLEL W/ ENDOMETRIAL LINING</p> <p><u>T2 COR-OBLIQUE SS/TSE</u> - {4THK/.4GAP} (30 FOV), ANGLE PERPENDICULAR TO THE ENDOMETRIAL LINING</p> <p><u>3D T1 AX FFE</u> – {5THK/0GAP} (25 FOV) -Must cover entire boney pelvis laterally and antero-posteriorly</p> <p><u>DWI AX B600</u> – {6THK/1GAP} (30FOV) please send ADC value to PACS</p> <p><u>T1/3D AX-OBLIQUE VIBE/TIGRE PRE</u> – {5THK/0GAP} (25FOV) -Axial must cover entire boney pelvis laterally and antero-posteriorly</p> <p>INJECT CONTRAST <i>HAND INJECT</i></p> <p><u>T1/3D SAG VIBE/TIGRE 1 MINUTE C+</u> – {5THK/0GAP} (25FOV) -Sagittal must cover the uterus, cervix, adnexa and pelvic sidewalls</p> <p><u>T1/3D AX VIBE/TIGRE 2 MINUTE C+</u> – {5THK/0GAP} (25FOV) -Axial must cover entire boney pelvis laterally and antero-posteriorly</p> <p><u>T1/3D COR VIBE/TIGRE 3 MINUTE C+</u> – {5THK/0GAP} (25FOV)</p>
<p><u>KIDNEY W/WO</u></p> <p>Charge as Abdomen w/wo</p>	<p>KIDNEY MASS, KIDNEY CYST, F/U TO ABNL ULT/CT, Polycystic Kidney Disease, Abnl Labs</p>	<p>Coverage: Dome of Liver through the lower pole of kidneys, Smallest FOV possible</p> <p>Prep : Patient must be NPO 3 hours prior to their exam</p> <p><u>T2 COR SS/TSE BH</u> – {6THK/1GAP} (smallest FOV possible) – THRU ENTIRE ABD, POSTERIOR SKIN TO ANTERIOR SKIN</p> <p><u>T2 AX SS/TSE BH (HI-TE)</u> – {6THK/1GAP} (smallest FOV possible)– DOME OF LIVER DOWN THRU KIDNEYS</p> <p><u>T2 AX SS/TSE FSAT BH/RESP</u> – {6THK/1GAP} * COPY PREV. AXIAL</p> <p><u>T1 AX TFE IN & OUT PHASE BH</u> – {6THK/1GAP} *COPY PREV. AXIAL</p> <p><u>DWI AXIAL B100 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER</p>

		<p><u>DWI AXIAL B600 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER * COPY PREV B100 please send ADC value to PACS</p> <p><u>T1/3D AX VIBE/TIGRE PRE</u> – {6THK/0GAP} – DOME OF LIVER DOWN THRU KIDNEYS; IF PT CAN'T HOLD BREATH, THEN JUST COVER DOME OF MID LIVER THRU ENTIRE KIDNEYS</p> <p><u>T1/3D COR VIBE/TIGRE PRE</u> – {6THK/0GAP} – THRU ENTIRE ABD, POSTERIOR SKIN TO ANTERIOR SKIN</p> <p>INJECT CONTRAST - 2 ml/sec (20 SECOND DELAY SET ON MEDRAD INJECTOR)</p> <p><u>T1/3D AX VIBE/TIGRE IMMEDIATE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D AX VIBE/TIGRE IMMEDIATE REPEAT C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D COR VIBE/TIGRE 1 MINUTE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D AX VIBE/TIGRE 3 MINUTE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p>**RECONS : SUBTRACTION IMAGES OF 1 AND 3 MIN SEQUENCES</p>
<p>LIVER W/WO</p> <p>Charge as Abdomen w/wo</p>	<p>Liver mass, Cirrhosis, Hepatitis, F/U of primary/ secondary malignancy, Elevated LFT's, Abd pain, Splenomegaly, Jaundice, Hepatomegaly</p>	<p>Coverage: Dome of Liver through the lower pole of kidneys, Smallest FOV possible</p> <p>Prep : Patient must be NPO 3 hours prior to their exam</p> <p><u>T2 COR SS/TSE BH</u> – {6THK/1GAP} (smallest FOV possible) – THRU ENTIRE ABD, POSTERIOR SKIN TO ANTERIOR SKIN</p> <p><u>T2 AX SS/TSE BH (HI-TE)</u> – {6THK/1GAP} (smallest FOV possible)– DOME OF LIVER DOWN THRU KIDNEYS</p> <p><u>T2 AX SS/TSE FSAT BH</u> – {6THK/1GAP} * COPY PREV. AXIAL</p> <p><u>T1 AX TFE IN & OUT PHASE BH</u> – {6THK/1GAP} *COPY PREV. AXIAL</p> <p><u>DWI AXIAL B100 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER</p> <p><u>DWI AXIAL B600 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER * COPY PREV B100 please send ADC value to PACS</p> <p><u>T1/3D AX VIBE/TIGRE PRE</u> – {6THK/0GAP} – DOME OF LIVER DOWN THRU KIDNEYS; ** IF PT CAN'T HOLD BREATH, THEN JUST COVER DOME OF LIVER DOWN THROUGH TIP OF LIVER</p>

		<p>INJECT CONTRAST - 2 ml/sec (20 SECOND DELAY SET ON MEDRAD INJECTOR)</p> <p><u>T1/3D AX VIBE/TIGRE IMMEDIATE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D AX VIBE/TIGRE IMMEDIATE REPEAT C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D AX VIBE/TIGRE 1 MINUTE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D AX VIBE/TIGRE 3 MINUTE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D COR VIBE/TIGRE C+</u> – {6THK/0GAP} COVER SKIN TO SKIN</p>
<p>LIVER W/EOVIST</p> <p>Charge as Abdomen w/wo</p>	<p>LNC, Bile Duct Injury, Mass (HCC, adenoma, FNH)</p>	<p>Coverage: Dome of Liver through the lower pole of kidneys, Smallest FOV possible</p> <p>Prep : Patient must be NPO 3 hours prior to their exam</p> <p><u>T1 AX TFE IN & OUT PHASE BH</u> – {6THK/1GAP} DOME OF LIVER THROUGH KIDNEYS</p> <p><u>T1/3D AX VIBE/TIGRE PRE</u> – {6THK/0GAP} – DOME OF LIVER DOWN THRU KIDNEYS; ** IF PT CAN'T HOLD BREATH, THEN JUST COVER DOME OF LIVER DOWN THROUGH TIP OF LIVER</p> <p>INJECT CONTRAST - 2 ml/sec (20 SECOND DELAY SET ON MEDRAD INJECTOR)</p> <p><u>T1/3D AX VIBE/TIGRE IMMEDIATE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D AX VIBE/TIGRE IMMEDIATE REPEAT C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D AX VIBE/TIGRE 1 MINUTE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D AX VIBE/TIGRE 3 MINUTE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>DWI AXIAL B100 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER</p> <p><u>DWI AXIAL B600 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER * COPY PREV B100 please send ADC value to PACS</p> <p>5 MINUTES AFTER INJECTION</p> <p><u>T1/3D COR VIBE/TIGRE 5 MINUTE C+</u> – {6THK/0GAP}</p>

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		<p><u>T2 COR SS/TSE BH – {6THK/1GAP} (smallest FOV possible) – THRU ENTIRE ABD, POSTERIOR SKIN TO ANTERIOR SKIN</u></p> <p><u>T2 AX SS/TSE BH (HI-TE) – {6THK/1GAP} (smallest FOV possible)– DOME OF LIVER DOWN THRU KIDNEYS</u></p> <p><u>T2 AX SS/TSE FSAT BH – {6THK/1GAP} * COPY PREV. AXIAL</u></p> <p>20 MINUTES AFTER INJECTION</p> <p><u>T1/3D COR VIBE/TIGRE C+ – {6THK/0GAP}</u></p> <p><u>T1/3D AX VIBE/TIGRE C+ – {6THK/0GAP} * COPY PRE AXIAL</u></p>
<p>Liver Lab</p> <p>Clinical Reference: MRN 665307</p>	<p>HEMOCHROMATOSIS/IRON QUANT *MIF ONLY</p>	<p>Coverage : Entire Liver</p> <p>Prep : Patient must be NPO 3 hours prior to their exam</p> <p>*TO BE PERFORMED AT MIF ONLY, UNLESS CONTRAINDICATED DUE TO HABITUS OR IMPLANT*</p> <p><u>COR/T2/HASTE – {6THK/20%DF} {38FOV} COVER ENTIRE LIVER</u></p> <p><u>AX/T2-HIGH TE/HASTE - {6THK/20%DF} {38FOV} COVER ENTIRE LIVER</u></p> <p><u>AX/T2/FS/HASTE - {6THK/20%DF} {38FOV} COVER ENTIRE LIVER</u></p> <p><u>AX/3D/IN-OUT PHASE - {3THK/20%DF} {38FOV} COVER ENTIRE LIVER</u></p> <p><u>AX/DWI - {6THK/20%DF} {38FOV} COVER ENTIRE LIVER</u></p> <p><u>T1/AX/VIBE – eDIXON BH {3THK/20%DF} {38FOV} COVER ENTIRE LIVER</u></p> <p><u>VIBE – qDIXON BH {3THK/20%DF} {38FOV} COVER ENTIRE LIVER</u></p> <p><u>T1/AX/VIBE – PRE BH</u></p> <p><u>T1/AX/VIBE – IMMEDIATE BH (ARTERIAL)– COPY PRE</u></p> <p><u>T1/AX/VIBE – IMMEDIATE REPEAT BH (VENOUS)– COPY IMMED</u></p> <p><u>T1/AX/VIBE – 1 MIN COPY IMMEDIATE REPEAT</u></p> <p><u>COR/VIBE- {2THK/20%DF} {38FOV}</u></p> <p><u>T1/AX/VIBE – 3 MIN COPY 1 MIN</u></p> <p><u>OPTIONAL SEQUENCES</u></p>

		<p><u>AX/VIBE - {3THK/20%DF} {38FOV} COPY PREVIOUS AXIAL VIBE</u></p> <p><u>COR/VIBE – COPY PREVIOUS CORONAL VIBE</u></p> <p><u>COR/VIBE/DIXON – (OPTIONAL) COPY PREVIOUS</u></p> <p><u>AX/T2/FS/FBLADE – RESP TRIGGERED {6THK/20%DF} {38FOV}</u></p> <p><u>AX/T2/FS/BLADE/TRA/P3/MBH (OPTIONAL BREATHHOLD) - {6THK/20%DF} {38FOV}</u></p> <p><u>AX/IN OUT/ 2D - {6THK/20%DF} {38FOV}</u></p> <p>IRON QUANT IF UNABLE TO BE PERFORMED AT MIF</p> <p><u>AX/T2*/5 ECHOES - {10THK/20%DF} {38FOV} (TR- 120, TE – 2.00ms, 4.00ms, 9.00ms, 14.00ms, 19.00ms)</u></p> <p><u>AX/T2*/10 ECHOES - - {10THK/20%DF} {38FOV} (TR- 120, TE -2.38ms, 4.76ms, 7.15ms, 9.53ms, 11.91ms, 14.29ms, 16.67ms, 19.06ms, 21.44ms, 23.82ms)</u></p> <p><u>T1/FL2D/TRA/P2/MBH- (BREATH HOLD) {10THK/20%DF} {38FOV} (TR- 120, TE – 2.00ms, 4.00ms, 9.00ms, 14.00ms, 19.00ms)</u></p>
<p><u>MRCP</u></p> <p>Charge as</p> <p>Abdomen wo</p>	<p>Jaundice/Abnl or Dilated Bile Ducts/ choledocholithiasis/ Primary sclerosing cholangitis (PSC)/RUQ pain/Pancreatic cyst</p>	<p>Coverage: Dome of Liver through the lower pole of kidneys, Smallest FOV possible</p> <p>Prep : Patient must be NPO 3 hours prior to their exam</p> <p><u>T2 COR SS/TSE BH – {5THK/1GAP} (FOV: 25cm) – THRU ENTIRE ABD, POSTERIOR SKIN TO ANTERIOR SKIN</u></p> <p><u>T2 AX SS/TSE BH (HI-TE) – {5THK/1GAP} (smallest FOV possible)– DOME OF LIVER DOWN THRU KIDNEYS</u></p> <p><u>T2 AX SS/TSE FSAT BH – {6THK/1GAP} * COPY PREV. AXIAL</u></p> <p><u>T1 AX TFE IN & OUT PHASE BH – {5THK/1GAP} *COPY PREV. AXIAL</u></p> <p><u>DWI AXIAL B100 BH/RESP – {6THK/1GAP} FOV DEPENDENT ON SCANNER</u></p> <p><u>DWI AXIAL B600 BH/RESP – {6THK/1GAP} FOV DEPENDENT ON SCANNER * COPY PREV B100 please send ADC value to PACS</u></p> <p><u>3D COR MRCP THINS RESP – {1.6THK/0GAP} (26FOV) MUST INCLUDE ALL OF BILIARY TREE WITHIN VOLUME</u></p> <p><u>3D GRE MRCP RADIALS – {30 THICK SLAB} CENTER 5 RADIALS ON CBD</u></p> <p><u>CINE MRCP BH – {30THK} 1 SLAB REPEATED 8x'S IN THE SAME LOCATION ANGLED PARALLEL TO THE DISTAL CBD OFF OF A SAGITTAL FROM THE</u></p>

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		PREVIOUS RADIAL ACQUISITION **please reference mr#525449 series 1101
<u>PANCREAS</u> <u>W/WO</u> Charge as Abdomen w/wo	MASS, ELEVATED LABS, ANY BILIARY DYSFUNCTION, PANCREATIC CYST	Coverage: Dome of Liver through the lower pole of kidneys, Smallest FOV possible Prep : Patient must be NPO 3 hours prior to their exam. Do NOT give water to patients having a Pancreas with MRCP. <u>T2 COR SS/TSE BH</u> – {6THK/1GAP} (smallest FOV possible) – THRU ENTIRE ABD, POSTERIOR SKIN TO ANTERIOR SKIN <u>T2 AX SS/TSE BH (HI-TE)</u> – {6THK/1GAP} (smallest FOV possible)– DOME OF LIVER DOWN THRU KIDNEYS <u>T2 AX THINS SS/TSE FSAT BH/RESP</u> – {5THK/1GAP} COVER TAIL TO HEAD OF PANCREAS ** <u>3D COR MRCP RESP</u> – { } MUST INCLUDE ALL OF BILIARY TREE WITHIN VOLUME ** <u>3D GRE MRCP RADIALS</u> – {80 THICK SLAB} CENTER 5 RADIALS ON CBD ** <u>CINE MRCP BH</u> – {30THK} 1 SLAB REPEATED 8x'S IN THE SAME LOCATION ANGLED PARALLEL TO THE DISTAL CBD OFF OF A SAGITTAL FROM THE PREVIOUS RADIAL ACQUISITION **please reference mr#525449 series 1101 <u>T1 AX TFE IN & OUT PHASE BH</u> – {6THK/1GAP} *COPY PREV. AXIAL <u>DWI AXIAL B100 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER <u>DWI AXIAL B600 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER * COPY PREV B100 please send ADC value to PACS <u>T1/3D AX VIBE/TIGRE PRE</u> – {6THK/0GAP} – DOME OF LIVER DOWN THRU KIDNEYS INJECT CONTRAST - 2 ml/sec (20 SECOND DELAY SET ON MEDRAD INJECTOR) <u>T1/3D AX VIBE/TIGRE IMMEDIATE C+</u> – {6THK/0GAP} * COPY PRE AXIAL <u>T1/3D AX VIBE/TIGRE IMMEDIATE REPEAT C+</u> – {6THK/0GAP} * COPY PRE AXIAL <u>T1/3D AX VIBE/TIGRE 1 MINUTE C+</u> – {6THK/0GAP} * COPY PRE AXIAL <u>T1/3D AX VIBE/TIGRE 3 MINUTE C+</u> – {6THK/0GAP} * SKIN TO SKIN <u>T1/3D COR VIBE/TIGRE C+</u> – {6THK/0GAP} * SKIN TO SKIN
PENIS W/WO	TRAUMA,	Coverage : Aortic Bifurcation through scrotum

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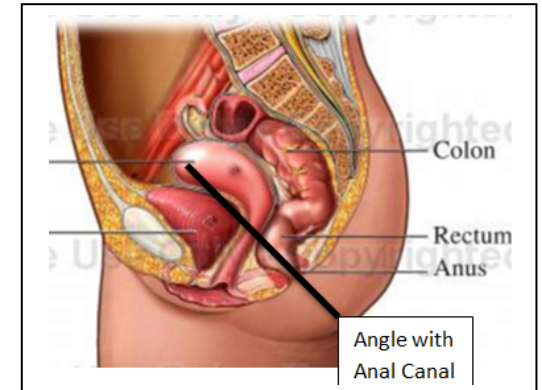
<p>Charge as Pelvis w/wo</p> <p>Clinical reference :</p> <p>MR# 22864749</p>	<p>URETHRAL ABNORMALITY, PENILE MASS</p>	<p>Prep : **Pt must empty bladder prior to exam, Fold towel & place b/w thighs to elevate scrotum to horizontal plane, tape penis to abdominal wall in midline (true sagittal plane is necessary)</p> <p><u>T1 AX TSE – {4THK/0.4GAP} (28FOV) **COVER RENAL VESSELS THROUGH PELVIS (LYMPH NODES)</u></p> <p><u>T2 AX TSE – {4THK/0.4GAP} (16FOV)</u></p> <p><u>T2 AX FS FSE or STIR – {4THK/0.4GAP} (28FOV)</u></p> <p><u>T2 COR TSE – {4THK/0.4GAP} (16FOV)</u></p> <p><u>T2 SAG FSE – {5THK/1GAP} (16FOV)</u></p> <p><u>T1 AX TFE IN & OUT PHASE BH – {5THK/1GAP} (28FOV)</u></p> <p><u>DWI AX B600 & B0 – {5THK/1GAP} (28FOV) please send ADC value to PACS</u></p> <p><u>T1/3D AX VIBE/TIGRE PRE – {2THK/0GAP} (28FOV)</u></p> <p>INJECT CONTRAST <i>HAND INJECT</i></p> <p><u>T1/3D AX VIBE/TIGRE IMMEDIATE C+ – {2THK/0GAP} (28FOV)</u></p> <p><u>T1/3D AX VIBE/TIGRE REPEAT C+ – {2THK/0GAP} (28FOV)</u></p> <p><u>T1/3D AX VIBE/TIGRE 1 MINUTE C+ – {2THK/0GAP} (28FOV)</u></p> <p><u>T1/3D SAG VIBE/TIGRE 2 MINUTE C+ – {2THK/0GAP} (28FOV)</u></p> <p><u>T1/3D COR VIBE/TIGRE C+ – {2.5THK/0GAP} (28FOV)</u></p>
<p><u>PHEO ADRENAL W/WO</u></p> <p>Charge as Abdomen w/wo</p>	<p>PHEOCHROMO-CYTOMA, METANEPHRINES/ UNEXPLAINED HBP, CATECHOLAMINES NOREPINEPHRINES</p>	<p>Coverage: Dome of Liver through the lower pole of kidneys, Smallest FOV possible</p> <p>Prep : Patient must be NPO 3 hours prior to their exam</p> <p><u>T2 COR SS/TSE BH – {6THK/1GAP} (smallest FOV possible) – THRU ENTIRE ABD, POSTERIOR SKIN TO ANTERIOR SKIN</u></p> <p><u>T2 AX SS/TSE BH (HI-TE) – {6THK/1GAP} (smallest FOV possible)– DOME OF LIVER DOWN THRU KIDNEYS</u></p> <p><u>T2 AX SS/TSE FSAT BH/RESP – {6THK/1GAP} * COPY PREV. AXIAL</u></p> <p><u>T1 AX TFE IN & OUT PHASE BH – {6THK/1GAP} *COPY PREV. AXIAL - ENTIRE ABD</u></p>

		<p><u>T1 COR TFE IN & OUT PHASE BH</u> – {6THK/1GAP} *COPY PREV. CORONAL – KIDNEYS ONLY</p> <p><u>DWI AXIAL B100 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER</p> <p><u>DWI AXIAL B600 BH/RESP</u> – {6THK/1GAP} FOV DEPENDENT ON SCANNER * COPY PREV B100 , please send ADC value to PACS</p> <p><u>T1/3D AX VIBE/TIGRE PRE</u> – {6THK/0GAP} – DOME OF LIVER DOWN THRU KIDNEYS</p> <p><u>T1/3D COR VIBE/TIGRE PRE</u> – {6THK/0GAP} – THRU ENTIRE ABD, POSTERIOR SKIN TO ANTERIOR SKIN</p> <p>INJECT CONTRAST - 2 ml/sec (20 SECOND DELAY SET ON MEDRAD INJECTOR)</p> <p><u>T1/3D AX VIBE/TIGRE IMMEDIATE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D AX VIBE/TIGRE IMMEDIATE REPEAT C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D AX VIBE/TIGRE 1 MINUTE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D COR VIBE/TIGRE 3 MINUTE C+</u> – {6THK/0GAP} * SKIN TO SKIN</p>
PLACENTA ACRETIA Charge as Pelvis wo	Placenta Acretia Placenta Previa	<p>Coverage: Superior to uterus to pubic symphysis , cover the uterus and try to keep fov relative to the uterus</p> <p>Prep : No prep **Pt will need to be consented by a Radiologist prior to MRI</p> <p><u>T2 COR FSE</u> – {4THK/0GAP}</p> <p><u>T2 SAG TSE</u> – {4THK/0GAP}</p> <p><u>T2 AX TSE</u> – {4THK/0GAP}</p> <p><u>T2 SAG FSAT</u> – {4THK/0GAP}</p> <p><u>T2 AX FSAT</u> – {4THK/0GAP}</p> <p><u>T1 SAG TFE IN & OUT PHASE</u>– {6THK/1GAP}</p> <p><u>AX BFFE or TRUEFISP/PBSG3D</u>– {7THK/1GAP}</p> <p><u>SAG BFFE or TRUEFISP/PBSG3D</u> – {7THK/1GAP}</p> <p><u>COR BFFE or TRUEFISP/PBSG3D</u> – {7THK/1GAP}</p>

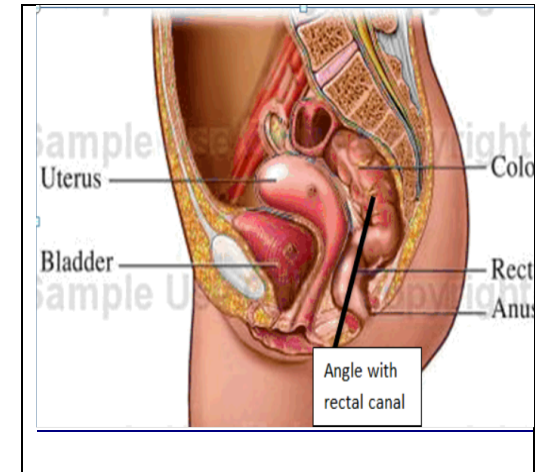
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PROSTATE 3T ONLY unless approved by a RAD Charge as Pelvis w/wo	Abnl PSA, prostate Hypertrophy	<p>Coverage: Entire prostate</p> <p>Prep: Patient must complete an enema the morning of their exam and be NPO 3 hours prior to the exam.</p> <p>*ACR GUIDELINES ON FOV FOR T1 AX</p> <p><u>T1 AX FSE – {5THK/1GAP} (32FOV) – cover from aortic bifurcation down to lesser trochanter</u></p> <p><u>T2 SAG TSE BH – {4THK/0GAP} (18FOV) – cover prostate</u></p> <p><u>T2 AX TSE BH – {4THK/0GAP} (18FOV) – ANGLE PERPENDICULAR TO THE RECTUM</u></p> <p><u>T2 COR TSE BH – {4THK/0GAP} (18FOV) – cover prostate</u></p> <p><u>DWI AX B1400 , 1000, 100 – {4THK/1GAP} (18FOV) – cover prostate , please only send ADC on B1400 value</u></p> <p><u>PRE/POST DYNAMIC T1/3D AX VIBE/TIGRE– {3THK/0GAP} (25FOV) – prostate only, 30 Dynamics(phases) 7 seconds per dynamic with overall scan time around 3:37min , inject contrast on medrad and press the start scan button simultaneously.</u></p>
PROSTATE WO Charge as Pelvis w/o contrast	Pre-Op for Hydrogel Spacer Placement	<p>Coverage: Include the prostate and spacer placed posterior to prostate</p> <p>No prep is needed for this exam</p> <p><u>T2 AX TSE --{3.5/0.4} {18 FOV} - cover prostate Anterior to Posterior</u></p> <p><u>T2 SAG TSE FSAT --{3.5/0.4} {18 FOV} -Cover prostate left to right</u></p>
PROSTATE PRE- EMBOLIZATION VOLUME Only done for patients of Dr. Keiger Charge as Pelvis w/o contrast	To establish prostate volume prior to prostate artery embolization	<p><u>T2 AX TSE BH – {4THK/0GAP} (18FOV) – ANGLE PERPENDICULAR TO THE RECTUM</u></p> <p><u>T2 COR TSE BH – {4THK/0GAP} (18FOV) – cover prostate</u></p> <p><u>T2 SAG TSE BH – {4THK/0GAP} (18FOV) – cover prostate</u></p>
PROSTATE Can be done on 1.5 or 3T	History of prostatectomy; Pt has prostate removed.	<p>Coverage: Entire prostate</p> <p>Prep: Patient must complete an enema the morning of their exam and be NPO 3 hours prior to the exam.</p> <p>**Pt must empty bladder prior to exam</p> <p><u>T2 AX SS/TSE FSAT – {5THK/1GAP} (30 FOV)</u></p>

<p>Charge as Pelvis w/wo</p>		<p><u>T2 COR SS/TSE</u> – {5THK/1GAP} (30 FOV) – SKIN TO SKIN</p> <p><u>T1 AX SS/TSE</u> – {5THK/1GAP} (30 FOV)</p> <p><u>T1 AX SS/TSE FSAT</u> – {5THK/1GAP} (30 FOV)</p> <p><u>DWI AX B600</u> – {6THK/1GAP} (30FOV) please send ADC value to PACS</p> <p><u>T2 AX FSE</u> – {5THK/1GAP} (32FOV) – cover from aortic bifurcation down to lesser trochanter</p> <p>INJECT CONTRAST <i>HAND INJECT</i></p> <p><u>T1/3D AX VIBE/TIGRE 2 MINUTE C+</u> – {5THK/0GAP} (25FOV)</p> <p><u>T1/3D COR VIBE/TIGRE 3 MINUTE C+</u> – {5THK/0GAP} (25FOV)</p>
<p>FISTULA W/WO</p> <p>Charge as Pelvis w/wo</p>	<p>RECTAL OR ANAL FISTULA</p>	<p>Coverage : Must include from Aortic Bifurcation down through Anus</p> <p>Prep: Patient must be NPO 3 hours prior to their exam, Patient must complete an enema the morning of their exam in addition to being NPO</p> <p><u>ONLY IF IT IS A KNOWN RECTOVAGINAL FISTULA OR IF THE DX IS FOR RECTOVAGINAL FISTULA** INJECT WARMED 60ML U/S GEL INTO VAGINA</u></p> <p><u>T2 SAG TSE FSAT</u> – {2.5THK/0GAP} (26 FOV) – ASIS TO ASIS</p> <p><u>T1 AX-OBLIQUE TSE</u> – {4THK/0.8GAP} (22 FOV) * ANGLE PERPENDICULAR TO ANAL CANAL</p> <p><u>T2 AX-OBLIQUE TSE FSAT</u>– {4THK/0.8GAP}{22 FOV} * COPY PREV AX-OBLIQUES</p> <p><u>T1 COR-OBLIQUE TSE</u> – {4THK/0.8GAP} (22 FOV) * ANGLE PARALLEL TO ANAL CANAL</p> <p><u>T2 COR-OBLIQUE TSE</u> – {4THK/0.8GAP}{22 FOV}* COPY PREV COR-OBLIQUES</p> <p><u>T1/3D AX-OBLIQUE THRIVE/LAVA PRE</u> – {4.4THK/0GAP} (22 FOV)</p> <p>INJECT CONTRAST <i>HAND INJECT</i></p> <p><u>T1/3D AX-OBLIQUE THRIVE/LAVA C+</u> – 4.4THK/0GAP} (22 FOV)– * COPY PRE AXIAL</p> <p><u>T1/3D COR-OBLIQUE THRIVE/LAVA C+</u> – 4.4THK/0GAP} (22 FOV)</p> <p><u>T1/3D SAG THRIVE/LAVA C+</u> – 4.4THK/0GAP} (22 FOV)– * COPY PRE AXIAL</p>



<p><u>RECTAL / ANAL</u> <u>MASS W/WO</u></p> <p>Charge as Pelvis w/wo</p>	<p>CANCER, RECTAL BLEEDING, PAIN W/ BM, MASS</p>	<p>Coverage : Must include from Aortic Bifurcation down through Anus</p> <p>Prep : Patient must be NPO 3 hours prior to their exam, Patient must complete an enema the morning of their exam in addition to being NPO</p> <p><u>T2 SAG TSE</u> – {2.5THK/0GAP} (26 FOV) – ASIS TO ASIS</p> <p><u>T1 AX TSE (HI-TE)</u> – {4THK/0.8GAP} (26 FOV)– AORTIC BIFURCATION PAST ANUS</p> <p><u>T2 AX-OBLIQUE TSE</u> – {4THK/0.8GAP}* ANGLE PERPENDICULAR TO RECTAL CANAL</p> <p><u>T2 COR-OBLIQUE TSE</u> – {4THK/0.8GAP}* ANGLE PARALLEL TO RECTAL CANAL</p> <p><u>DWI AXIAL B300 BH/RESP</u> – {6THK/1GAP} * ANGLE PERPENDICULAR TO RECTAL CANAL</p> <p><u>DWI AXIAL B600 BH/RESP</u> – {6THK/1GAP} * ANGLE PERPENDICULAR TO RECTAL CANAL</p> <p>please send B600 ADC value to PACS</p> <p><u>T1/3D AX-OBLIQUE THRIVE/LAVA PRE</u> – {1.2THK/0GAP} (22 FOV)</p> <p>INJECT CONTRAST – HAND INJECT</p> <p><u>T1/3D AX-OBLIQUE THRIVE/LAVA 30 SEC C+</u> – 1.2THK/0GAP} (22 FOV)– * COPY PRE AXIAL</p> <p><u>T1/3D AX-OBLIQUE THRIVE/LAVA 1 MINUTE C+</u> – 1.2THK/0GAP} (22 FOV)– * COPY PRE AXIAL</p> <p><u>T1/3D SAG THRIVE/LAVA C+</u> – 1.2THK/0GAP} (22 FOV)– ASIS TO ASIS</p>
<p>RETRO- PERITONEAL FIBROSIS</p> <p>Charge as Pelvis w/wo</p>	<p>Retroperitoneal Fibrosis</p>	<p>Coverage : Above Kidneys to Below Aortic Bifurcation</p> <p><u>T1 AX TFE IN & OUT PHASE BH</u> – {5THK/1GAP}</p> <p><u>T2 AX TSE FSAT BH</u> – 5THK/1GAP</p> <p><u>T2 AX TSE BH</u> – 5THK/1GAP</p> <p><u>T2 COR TSE BH</u>– 5THK/1GAP</p>



		<p><u>DWI AX B600</u> – 5THK/1GAP please send ADC value to PACS</p> <p><u>T1/3D AX VIBE/TIGRE PRE</u> – 6THK/0GAP</p> <p>INJECT CONTRAST - 2 ml/sec (20 SECOND DELAY SET ON MEDRAD INJECTOR)</p> <p><u>T1/3D AX VIBE/TIGRE IMMEDIATE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D AX VIBE/TIGRE REPEAT C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D COR VIBE/TIGRE 1 MINUTE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D AX VIBE/TIGRE 3 MINUTE C+</u> – {6THK/0GAP} * COPY PRE AXIAL</p> <p><u>T1/3D COR VIBE/TIGRE C+</u> – {6THK/0GAP}</p>
SCROTUM Charge as Pelvis w/wo	Scrotal pain, hydrocele	<p>Coverage : Scrotum</p> <p>Prep : **Pt must empty bladder prior to exam, Fold towel & place b/w thighs to elevate scrotum to horizontal plane, tape penis to abdominal wall out of the region of interest, use 13 cm or small surface</p> <p><u>T1 AX TSE</u> – {4THK/0.5GAP} (18FOV) **COVER RENAL VESSELS THROUGH PELVIS (LYMPH NODES)</p> <p><u>T2 AX TSE</u> – {4THK/0.5GAP} (12FOV)</p> <p><u>T1 COR TSE</u> – {4THK/0.5GAP} (12FOV)</p> <p><u>T2 COR TSE</u> – {4THK/0.5GAP} (12FOV)</p> <p><u>DWI AX B600 & B0</u> – {5THK/1GAP} (30FOV) please send ADC value to PACS</p> <p><u>T1/3D AX VIBE/TIGRE PRE</u> – {5THK/0GAP} (22FOV)</p> <p>INJECT CONTRAST <i>HAND INJECT</i></p> <p><u>T1/3D AX VIBE/TIGRE 30 SECONDS C+</u> – {5THK/0GAP} (22FOV)</p> <p><u>T1/3D AX VIBE/TIGRE 1 MINUTE C+</u> – {5THK/0GAP} (22FOV)</p> <p><u>T1/3D COR VIBE/TIGRE C+</u> – {5THK/0GAP} (22FOV)</p>

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THYMUS/MEDIASTINAL MASS	Mediastinal Mass, Abnormal CT, Thymoma	Coverage : Several centimeters ABOVE the aortic arch to several centimeters BELOW the carina Prep : No Prep Ax T1 {4THK/1GAP} (18FOV) Ax T2 FS {4THK/1GAP} (18FOV) T1 AX TFE IN & OUT PHASE {4THK/1GAP}} (18FOV) Cor T1 {3THK/1GAP} (18FOV) Cor T2 FS {3THK/1GAP} (18FOV) Sag T1 {4THK/.5GAP} (18FOV) Sag T2 FS {4THK/.5GAP} (18FOV) C+ Ax T1 FS {4THK/1GAP} (18FOV) C+ Cor T1 FS {3THK/1GAP} (18FOV) C+ Sag T1 FS {4THK/.5GAP} (18FOV)
<u>URETHRAL DIVERTICULUM</u> Charge as Pelvis w/wo	Pain w/ urination, bladder pain, bladder diverticulum	Coverage : Iliac Crest through Pubic Symphysis Prep : Patient must be NPO 3 hours prior to their exam, Patient must complete an enema the morning of their exam in addition to being NPO ** FULL BLADDER, do not let patient urinate prior to exam <u>T2 SAG SS/TSE FSAT – {6THK/1GAP} (24 FOV) – ASIS TO ASIS</u> <u>T2 AX SS/TSE FSAT – {5THK/1GAP} (24 FOV)</u> <u>T2 AX SS/TSE HI-RES – {5THK/1GAP} (24 FOV)</u> <u>DWI AX B600 & B0 – {5THK/1GAP} (30FOV) please send ADC value to PACS</u>

		<p><u>T1/3D AX THRIVE/LAVA PRE – {5THK/0GAP} (24FOV)</u></p> <p>INJECT CONTRAST <i>HAND INJECT</i></p> <p><u>T1/3D AX THRIVE/LAVA IMMED C+ – {4THK/0GAP} (25FOV)</u></p> <p><u>T1/3D AX THRIVE/LAVA 1 MINUTE C+ – {4THK/0GAP} (25FOV)</u></p> <p><u>T1/3D SAG THRIVE/LAVA 2 MINUTE C+ – {4THK/0GAP} (25FOV)</u></p> <p><u>T1/3D AX THRIVE/LAVA 3 MINUTE C+ – {4THK/0GAP} (25FOV)</u></p>
<p>UROGRAM</p> <p>Charge as Pelvis w/wo</p>	<p>Painless hematuria/Chronic renal lithiasis/Evaluate for malignancy</p>	<p>Coverage : Upper poles of kidneys through Pubic Symphysis</p> <p>Prep : Patient must be NPO 3 hours prior to their exam, Patient must complete an enema the morning of their exam in addition to being NPO **FULL BLADDER, 500ml Saline bag drip immediately prior to examination – PLEASE CALL RAD IF PT HAS CHF TO SEE IF 500ML SALINE IS INDICATED</p> <p><u>T2 COR TSE BH – {5THK/1GAP} (36 FOV) USE SMALLEST FOV POSSIBLE</u></p> <p><u>T2 AX TSE BH – {5THK/1GAP} (25 FOV)</u></p> <p><u>DUAL AX TSE BH – {30THK} (30FOV)</u></p> <p><u>3D MRCP HI-RES 5 RADIALS– {1.6THK/0GAP} (33FOV) RADIALS USED IF YOU NEED TO LOCATE THE URETERS</u></p> <p><u>(PELVIS) T1/3D AX VIBE/TIGRE PRE – {6THK/0GAP} (33FOV) COVER MID URETERS DOWN THROUGH ENTIRE BLADDER</u></p> <p>**radiologist to inject 10 mg IV Lasix</p> <p><u>CINE URO BH – {40THK} (32FOV) 1 SLAB REPEATED 10X'S IN THE SAME SPOT TO CATCH PERISTALSIS IN THE URETERS</u></p> <p><u>(ABD) T1/3D AX VIBE/TIGRE PRE – {6THK/0GAP} (33FOV) COVER FROM TOP OF KIDNEYS DOWN TO MID URETERS</u></p> <p>INJECT CONTRAST - 2 ml/sec (20 SECOND DELAY SET ON MEDRAD INJECTOR)</p> <p><u>(ABD) T1/3D AX VIBE/TIGRE 20 SECONDS C+ – {6THK/0GAP} (33FOV) COVER FROM TOP OF KIDNEYS DOWN TO MID URETERS</u></p> <p><u>(ABD) T1/3D AX VIBE/TIGRE 45 SECONDS C+ – {6THK/0GAP} (33FOV) COVER FROM TOP OF KIDNEYS DOWN TO MID URETERS</u></p>

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		<p><u>(PELVIS) T1/3D AX VIBE/TIGRE C+ – {6THK/0GAP} (33FOV) COVER MID URETERS DOWN THROUGH ENTIRE BLADDER</u></p> <p><u>(ABD) T1/3D AX VIBE/TIGRE 5 MINUTE C+– {6THK/0GAP} (33FOV) COVER FROM TOP OF KIDNEYS DOWN TO MID URETERS</u></p> <p><u>(PELVIS) T1/3D AX VIBE/TIGRE 5 MINUTE C+ – {6THK/0GAP} (33FOV) COVER MID URETERS DOWN THROUGH ENTIRE BLADDER</u></p> <p><u>(ABD) T1/3D COR VIBE/TIGRE C+– {6THK/0GAP} (33FOV) COVER FROM TOP OF KIDNEYS DOWN TO MID URETERS</u></p> <p><u>3D COR MRCP THINS RESP – {1.6THK/0GAP} (26FOV)</u></p>
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THORACIC OUTLET W/WO	THORACIC OUTLET SYNDROME	<p>COVERAGE: From bottom of the aortic arch (to make sure we don't clip the origins of the great vessels) through the proximal humeri</p> <p>PREP: None</p> <p><u>ARMS UP</u></p> <p><u>AX SS FSE</u> – {5THK/ TR 1008/ TE 91/ MATRIX 256/160 / NEX .55/ BW 499 / 90* FLIP}</p> <p><u>C+ 3D MRA</u> – ARTERIAL AND VENOUS PHASE {2.3/1.3THK / TR 4 / TE 1.4 / 35* FLIP / MATRIX 288/192 / NEX .75 / BW 244}</p> <p><u>COR 3D FS GRE</u> – {2.6 THK / TR 3.3 / TE 1.2 / FLIP 12 / MATRIX 256/192 / NEX .75 / BW 244}</p> <p><u>AX 3D FS GRE</u> – {5THK / TR 4.5/ TE 2.1 / FLIP 12 / MATRIX 320/192 / NEX .75 / BW 244}</p> <p><u>ARMS DOWN</u></p> <p><u>AX SS FSE</u> – {5THK/ TR 1008/ TE 91/ MATRIX 256/160 / NEX .55/ BW 499 / 90* FLIP}</p> <p><u>C+ 3D MRA</u> – ARTERIAL AND VENOUS PHASE {2.3/1.3THK / TR 4 / TE 1.4 / 35* FLIP / MATRIX 288/192 / NEX .75 / BW 244}</p> <p><u>COR 3D FS GRE</u> – {2.6 THK / TR 3.3 / TE 1.2 / FLIP 12 / MATRIX 256/192 / NEX .75 / BW 244}</p> <p><u>AX 3D FS GRE</u> – {5THK / TR 4.5/ TE 2.1 / FLIP 12 / MATRIX 320/192 / NEX .75 / BW 244}</p>
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		<p>Contrast-Enhanced 3D MRA Protocol</p> <p>MRA examinations were performed on a 1.5-T scanner (Signa HDx, GE Healthcare) for 37 patients and on a 3-T scanner (Magnetom Trio, Tim System, Siemens Healthcare) for 41 patients. Multichannel phased-array coils were used for signal reception. Gadobenate dimeglumine (0.5 mol/L; MultiHance, Bracco Diagnostics) or gadopentetate dimeglumine (0.5 mol/L; Magnevist Bayer HealthCare) was used as contrast agent. An automated injector was used for contrast agent and saline chaser administration.</p> <p>The pulse sequences and their imaging parameters for this protocol are provided in Table 1. First, T2-weighted imaging (single-shot fast spin-echo on the 1.5-T and HASTE on the 3-T scanner) was performed. This is followed by breathhold arterial and venous phase contrast-enhanced 3D MRA and equilibrium phase imaging using a 3D gradient-echo pulse sequence with fat suppression. The first set of MRA and equilibrium phase images was acquired during 150–160° of bilateral arm abduction with the head and neck in the neutral position. A coronal oblique 3D slab of the MRA was prescribed to cover the bilateral subclavian and axillary vessels. Unenhanced mask imaging was followed by multiphase contrast-enhanced dynamic acquisition using the identical 3D slab and imaging parameters with a mask. Bolus timing was established using fluoroscopic triggering. The patients were instructed to hold their breath during the acquisitions. Contrast-enhanced images were obtained with the IV administration of 20 mL of gadolinium-based contrast agent and 20 mL of saline flush at a rate of 2 mL/s. All pulse sequences were repeated with the arm at rest next to the torso with the administration of 15 mL of gadolinium-based contrast agent and 20 mL of saline flush at a rate of 2 mL/s.</p>
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