

Manual for imaging
Multi_MPROD_Aera_v2

1. Patient positioning is important. Prostate should be between 2 coil elements (between coil element of spine coil and body matrix coil). When patient lay on the table find his anterior superior iliac spine. It is an important landmark of surface anatomy, it refers to the anterior extremity of the iliac crest of the pelvis. Prostate is in the midline about 6-10 cm below anterior superior iliac spine.
2. Register the patient. Use protocol - **Multi_IMPROD_Aera_v2_0_follow_up**
3. Run **Localizer-Trufi-2D**
4. Check if rectal air is present at the level of prostate. If rectal air is present, send the patient to toilette and/or give enema. Rectal air causes susceptibility artifacts and results in useless DWI.
5. Check location of prostate in the respect to the coil receiver elements. Prostate gland should be located approximately in the middle of coils elements, both for the anterior and posterior coil elements.
6. Start planning **Localizer-Isocenter**. Middle of FOV (small yellow circle) should be exactly in the middle of prostate. You can find prostate as a structure under urinary bladder.
7. Apply localizer **Localizer-Isocenter**. In most of cases table will move a bit. If prostate was exactly in the middle of FOV of Localizer-Trufi-2D before planning of **Localizer-Isocenter** the table will not move.
9. After finishing **Localizer-Isocenter** you can delete **Localizer-Trufi-2D**.
10. Start planning **t2_tse_sag_320_p2**. For planning use **Localizer-Isocenter**. Middle of FOV (small yellow circle) should be in the middle of prostate. Apply the sequence.
12. Important step! Start planning **t2_tse_tra_320_a2**. For planning use **Localizer-Isocenter** or **t2_tse_sag_320_a2**. Middle of FOV (small yellow circle) should be in the middle of prostate. Apply the sequence.
13. Start planning **Dif_tra_b500_bipolar_NOdfc_fPS**. Copy center of slice position from **t2_tse_tra_320_a2**! Apply the sequence.
14. Start planning **Dif_tra_2_5mm_b1500_bipolar_NOdfc_fPS**. Copy center of slice position from **t2_tse_tra_320_p2**! Apply the sequence.
15. Start planning **Dif_tra_2_5mm_b2000_bipolar_NOdfc_fPS**. Copy center of slice position from **t2_tse_tra_320_p2**! Apply the sequence.
16. Start planning **t1_vibe_tra_dyn_fa15**. Copy center of slice position from **t2_tse_tra_320_p2**! Apply the sequence.

Questions address to –
Ivan Jambor (ivjamb@utu.fi)