

**COG Contouring Atlases for ANBL17P1: RADIATION THERAPY SUGGESTED ORDER OF PRIMARY SITE VOLUME
DELINEATION**

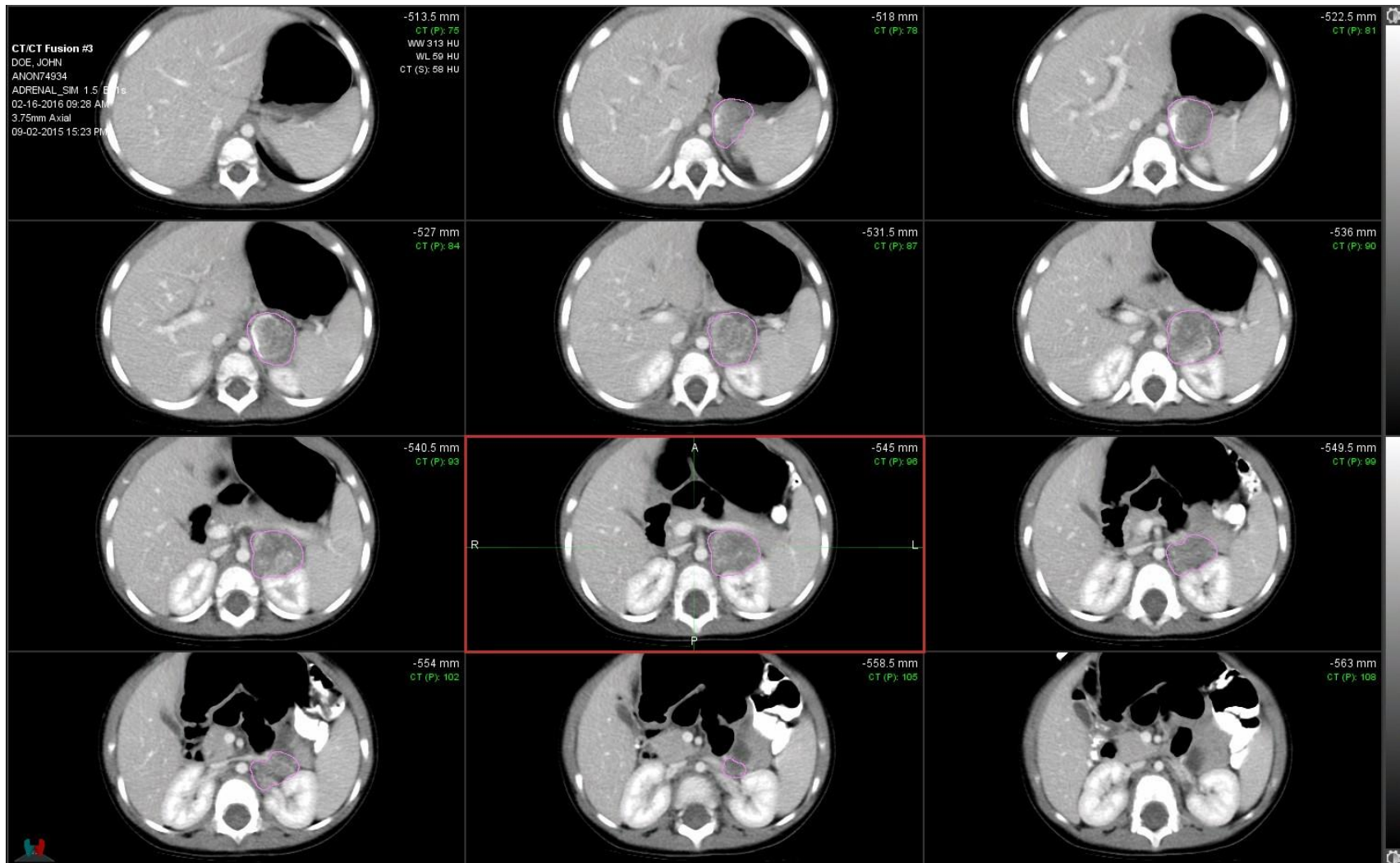


Figure 1. Define GTV_PreSurgery on the pre-surgery, post-induction chemotherapy diagnostic scan registered with the simulation scan (pink contour).



Figure 1. Define GTV by copying the GTV_PreSurgery volume and then subtracting the vertebral body, liver and adjacent kidney from the GTV volume (pink volume). The subtracted contour boundary is highlighted on the sagittal image by the yellow arrow.

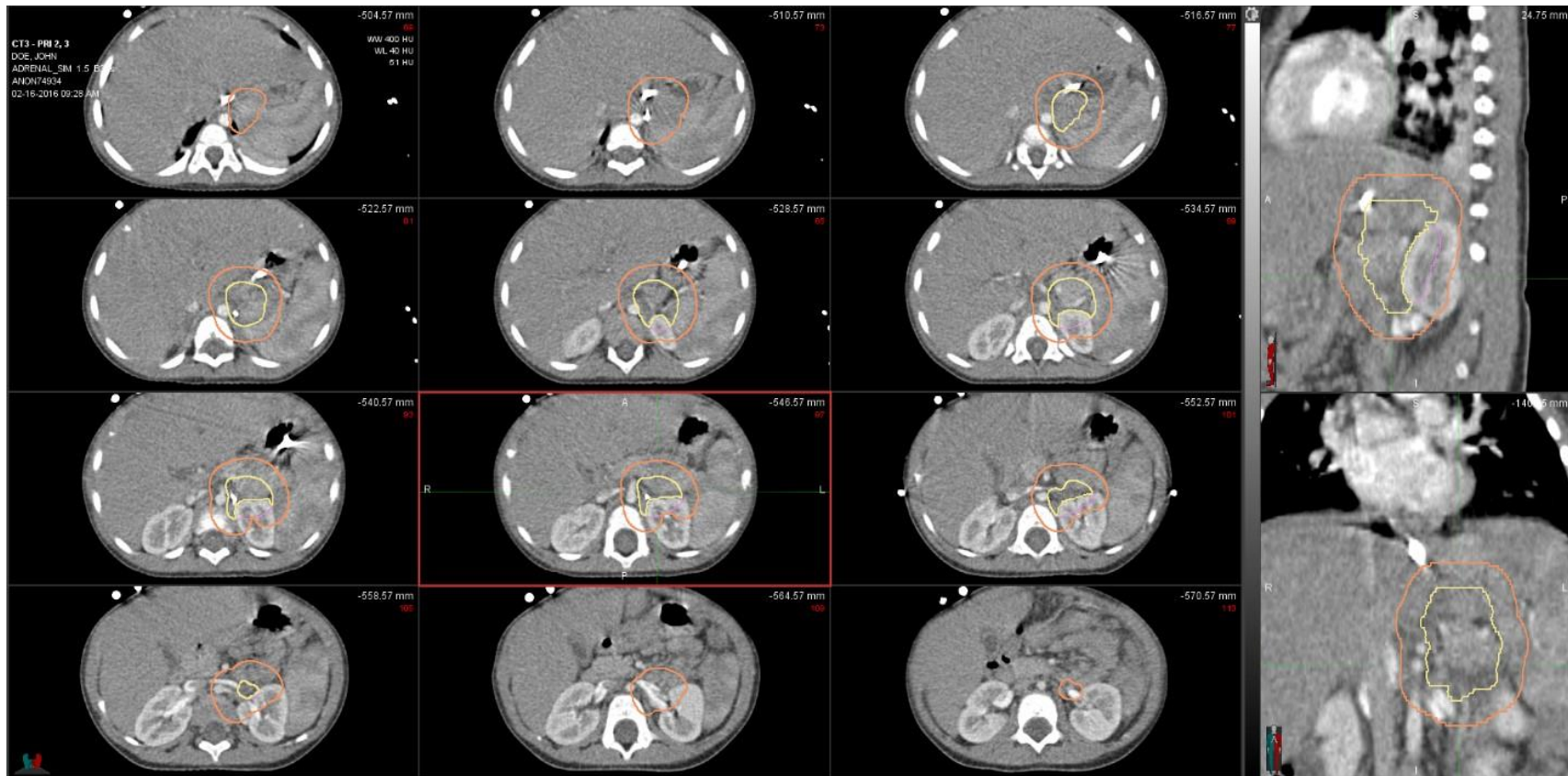


Figure 2. Define CTV by expanding GTV (yellow volume) by 1cm. Modify CTV (Peach volume) by subtracting the adjacent kidney, liver and vertebral body (unless involved by disease).

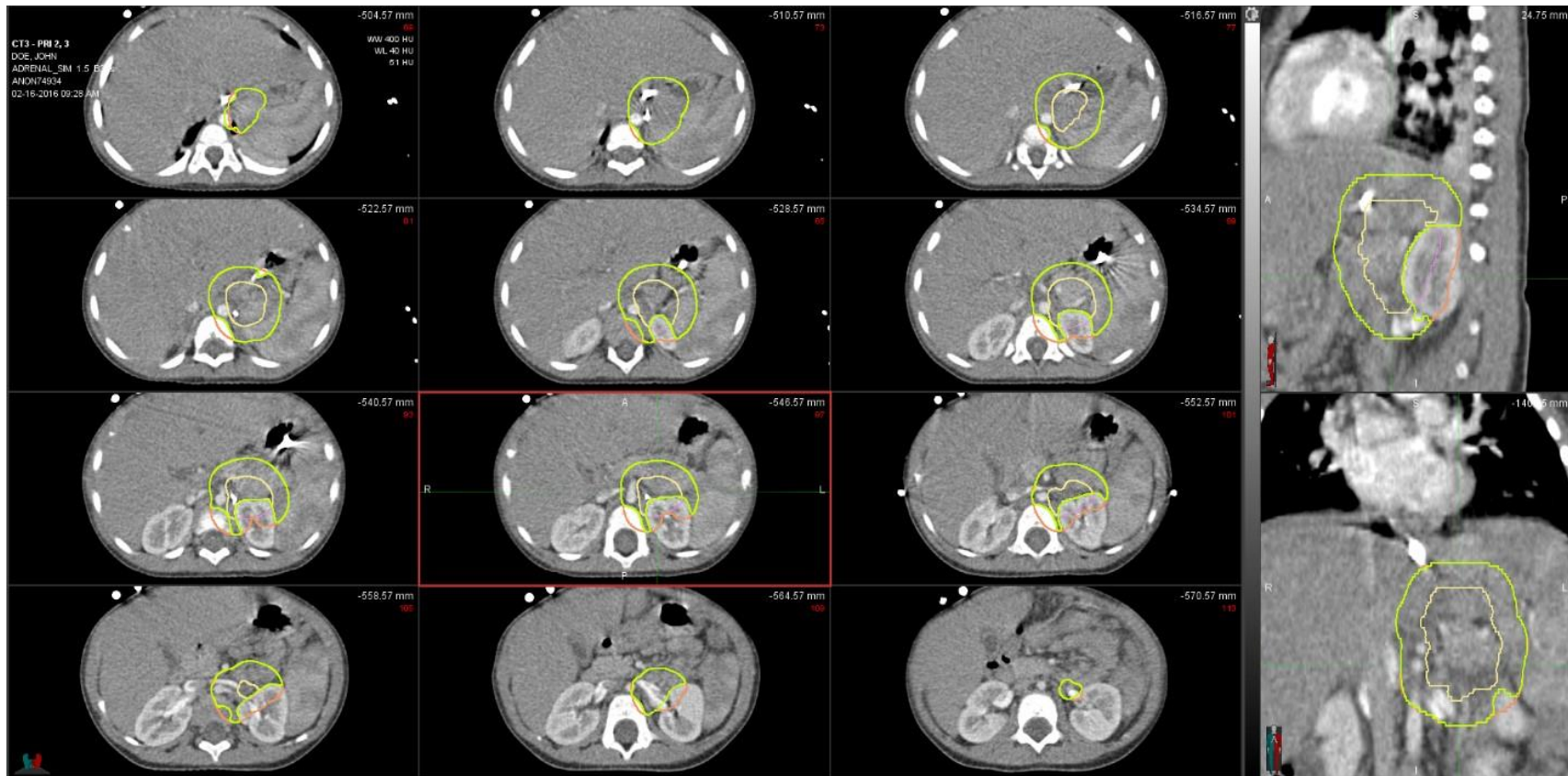


Figure 3. The CTV should be confirmed to expand at least 1cm circumferentially around the GTV, except for locations such as the adjacent kidney and vertebral body (GTV = yellow, unmodified CTV = peach, modified CTV = lime green).

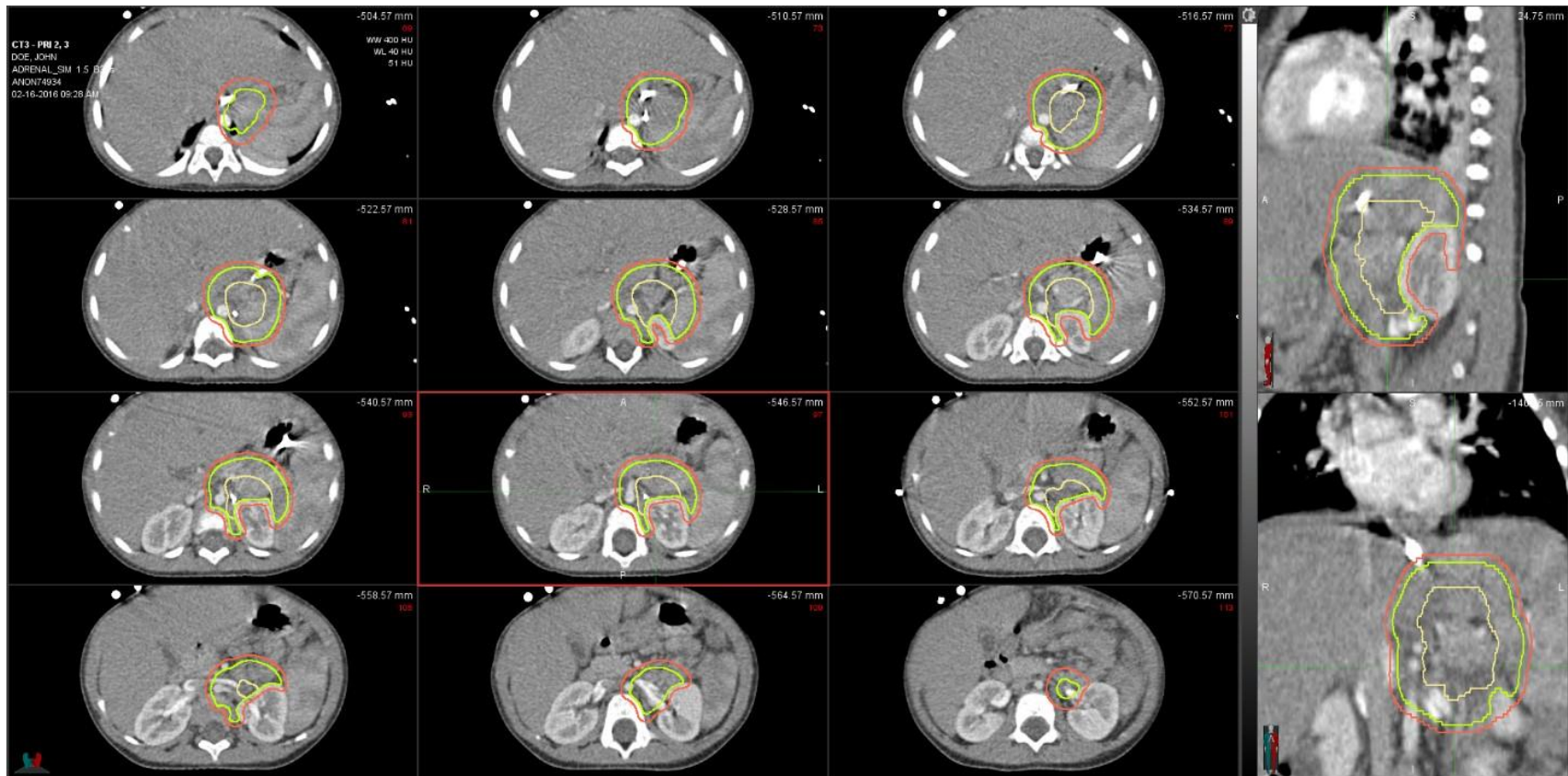


Figure 4. Define PTV by expanding CTV by 0.3-0.8cm. (PTV = orange contour).

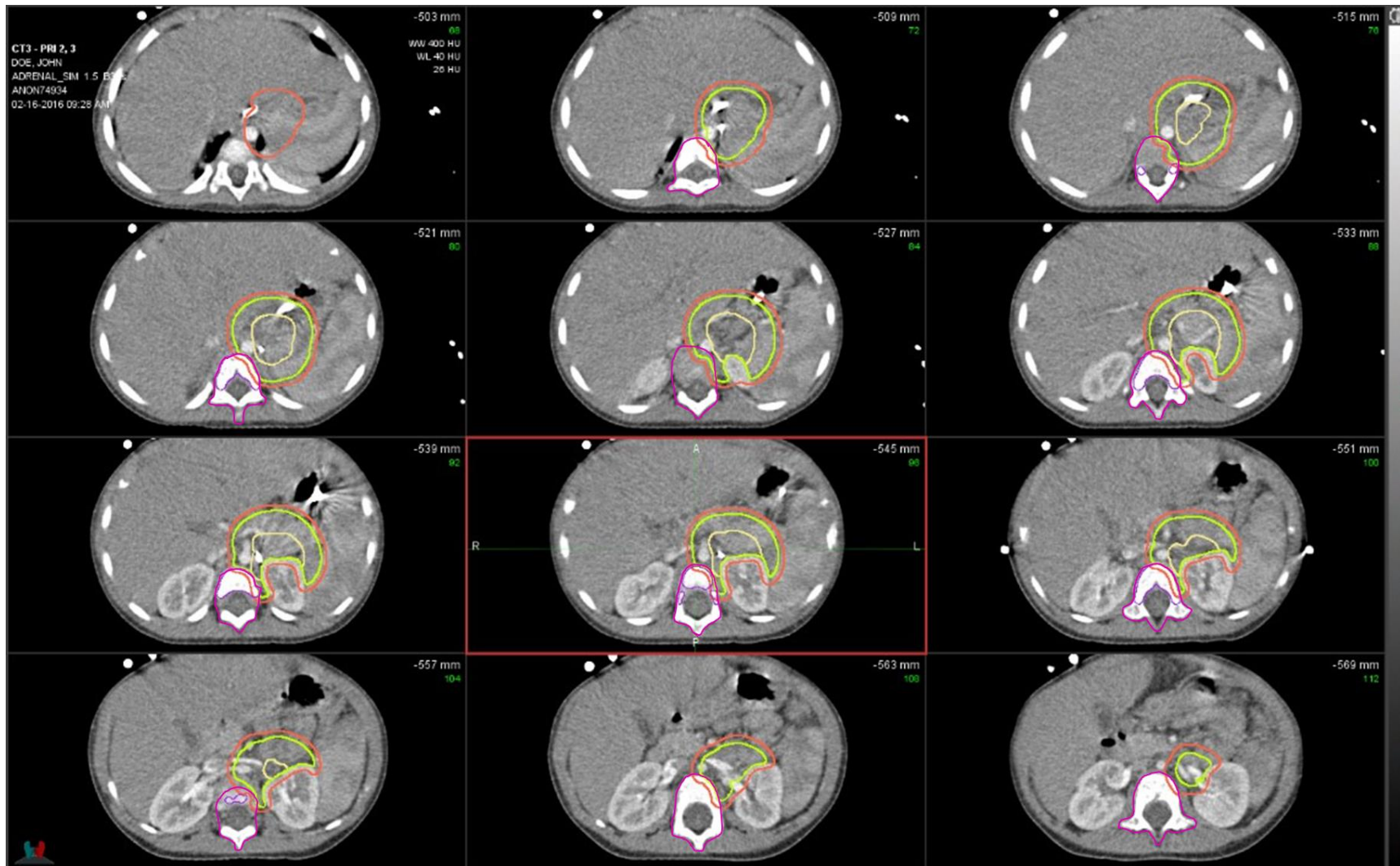


Figure 5. In cases where IMRT planning leads to a dose gradient across the vertebral body an additional planning pseudo-target should be used to ensure symmetrical inclusion of the vertebrae along the entire extent of the PTV (orange contour). The vertebral body is delineated in pink. PTV should be treated to 21.6 Gy as described in Table 17.1.1 while the vertebrae along the length of the PTV should be treated to a minimum dose of 18 Gy as described in Table 17.8.1 and as shown in Figure 17.8.1.