Real-world analysis of manual editing of deep learning contouring in the thorax region

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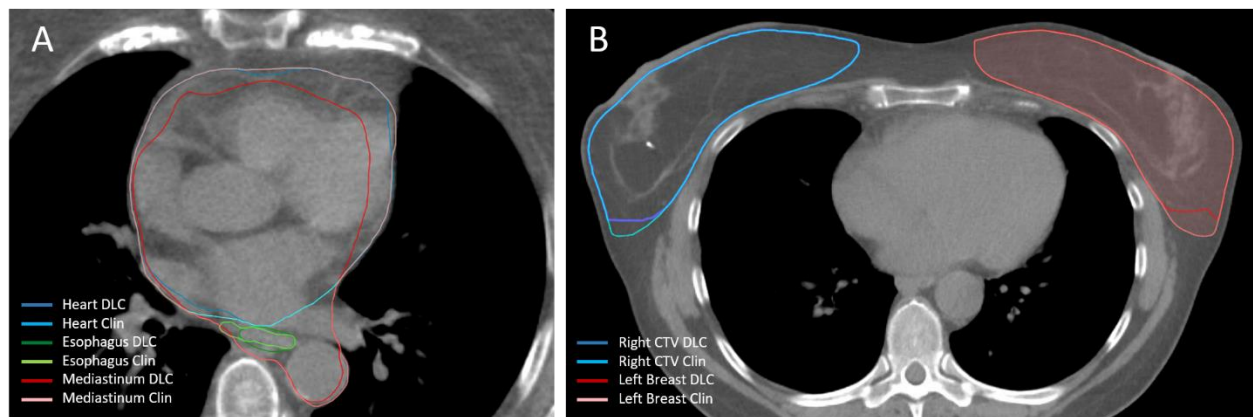
Figure S1 – Representative example of the DLC-contours and edited contours for a (A) lung and (B) breast cancer patient for some of the OARs. Left breast represents the contralateral breast.
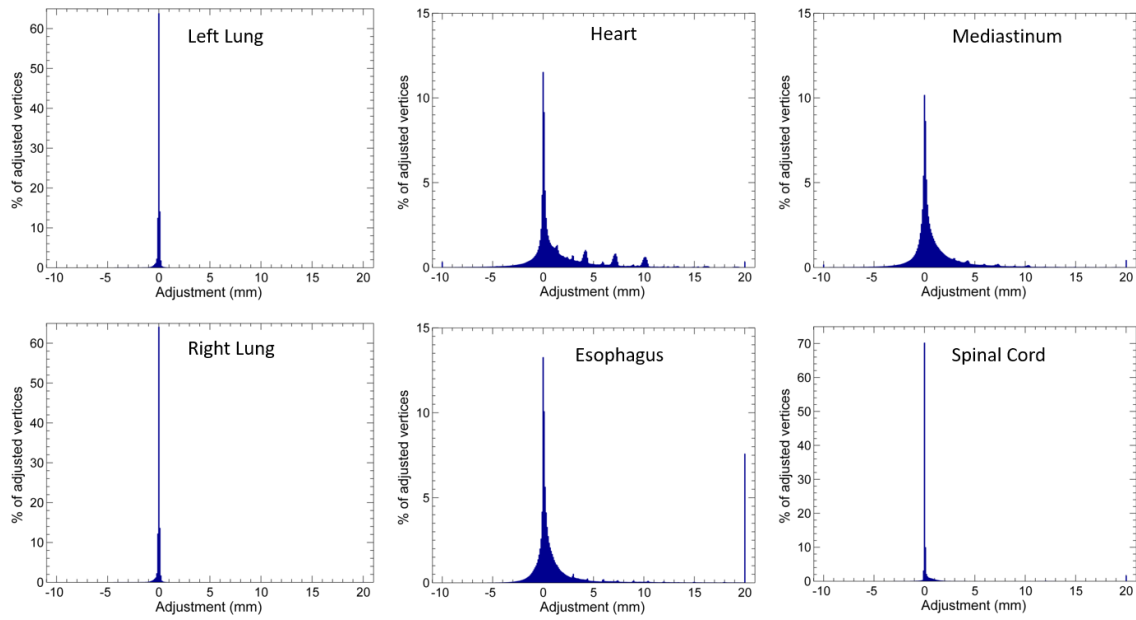
Figure S2 – Histograms of adjustments over all patients for the lung cancer group. OARs: left lung, right lung, heart, esophagus, mediastinum, and spinal cord.
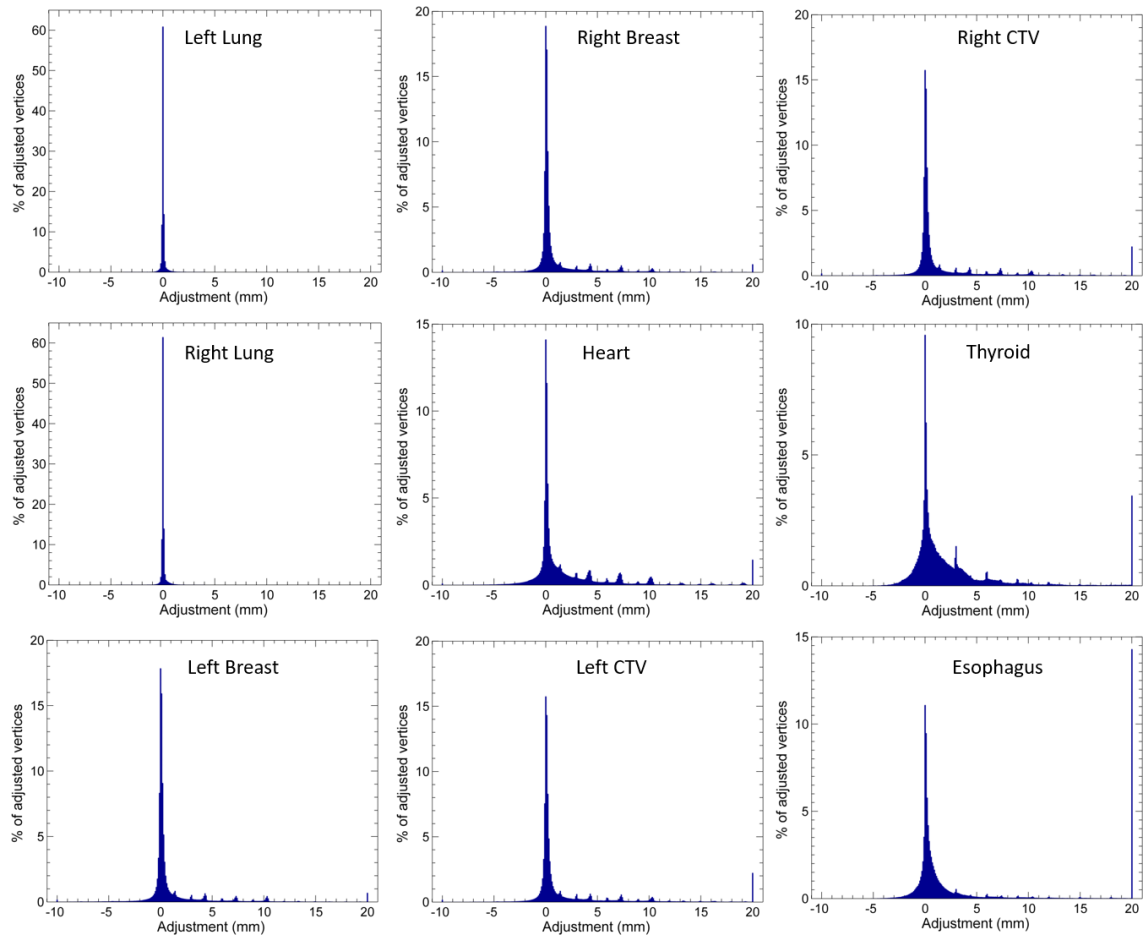

Figure S3 – Histograms of adjustments over all patients for the breast cancer group. OARs: left lung, right lung, left (contralateral) breast, right (contralateral) breast, heart, left CTV breast, right CTV breast, thyroid, and esophagus.
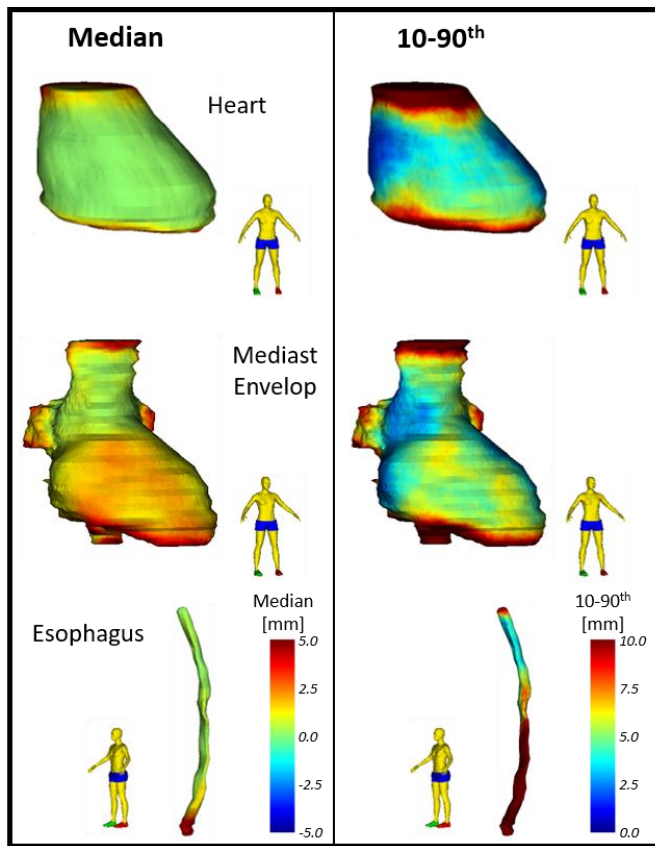
Figure S4 – Spatial adjustments showing median and 10–90th percentile range projected on the reference shape of the subsampled OARs in the lung cancer group. The interpolated DLC RTSS was compared to the clinical RTSS to simulate the situation when no subsampling is used. Abbreviations: DLC = deep-learning contouring, RTSS = RT Structure Set.
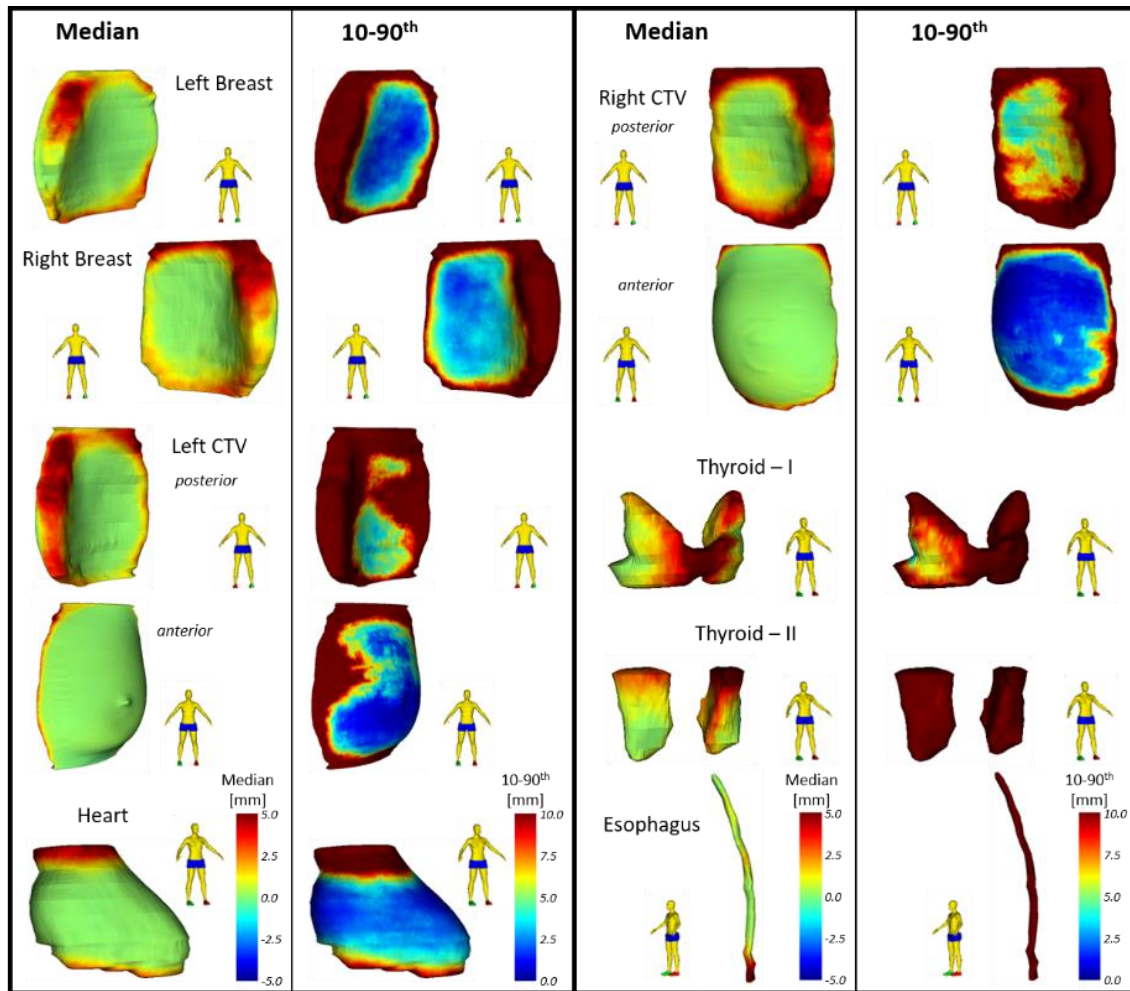
Figure S5 – Spatial adjustments showing median and 10–90th percentile range projected on the reference shape of the subsampled OARs in the breast cancer group. The interpolated DLC RTSS was compared to the clinical RTSS to simulate the situation when no subsampling is used. Left and Right Breast represent the contralateral breast, left and right CTV represent the CTV breast. Abbreviations: DLC = deep-learning contouring, RTSS = RT Structure Set.

Videos of all the spatial adjustments per patient group and per organ are also added as Supplementary Material, see "SupplementaryVideos.pptx".