

Supplementary material

S1 Manual label quality evaluation

We provide here a more detailed outlook at our manual quality assessment. We carried out a visual qualitative assessment of label alignment across all available data, focusing around the coronal view of the images, using ITK-Snap. As illustrated in Figure S1, the coronal view revealed several subjects with the caudate and ventricles being shifted. This is particularly visible in the zoomed-in subjects, where the left hemisphere ventricle (first row) and the right hemisphere ventricle (second row) are shifted and do not cover the ventricle (bright tissue on the image). These data were subsequently excluded from training, resulting in the discarding of 23 out of 79 data points. The complete manual rating is available at https://github.com/Medical-Image-Analysis-Laboratory/lisasegm/blob/main/LISA_QC.csv.

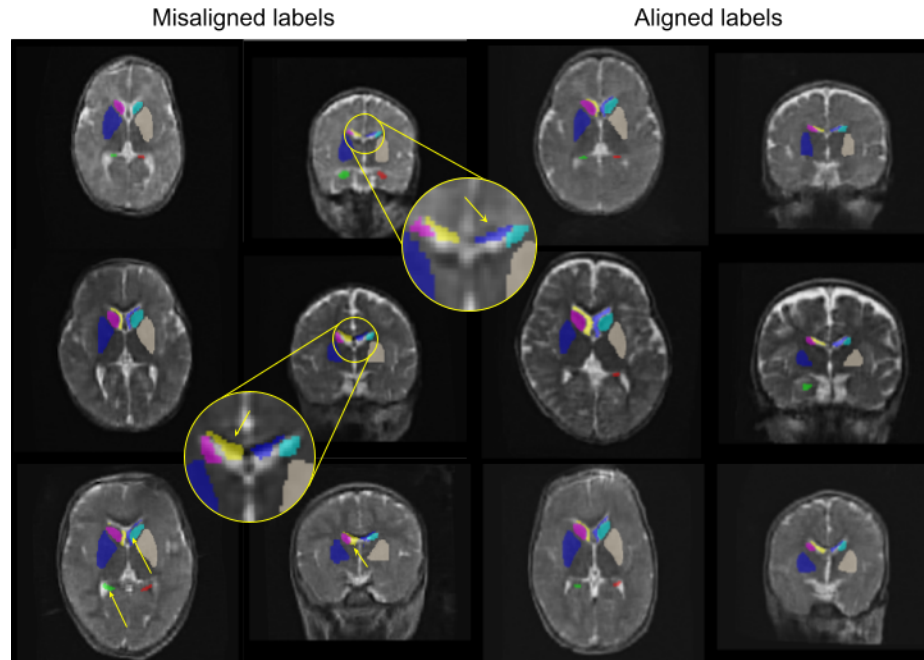


Fig S1: **A more detailed outlook at our manual quality annotations.** The left columns feature 3 subjects with misaligned labels, and the right column features three different subjects with well-aligned labels.