

# Kidney and vessel segmentation

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## 1 Method

We present a method for kidney and vessel segmentation from clinical CTa (i.e., CT artery) data. Our ultimate goal is to obtain high quality segmentations for kidneys, arteries, veins and tumors (4 labels). Currently, only kidney and vessel (without differentiating arteries and veins) segmentations are presented (2 labels).

More specifically, the clinical CTa data comprises of 9 scans, among which two scans are the most useful: the **arterial phase scan** and the **essence phase scan**. We use the two scans as the inputs to our processing pipeline. The main steps of our pipeline are illustrated in Fig. 1.

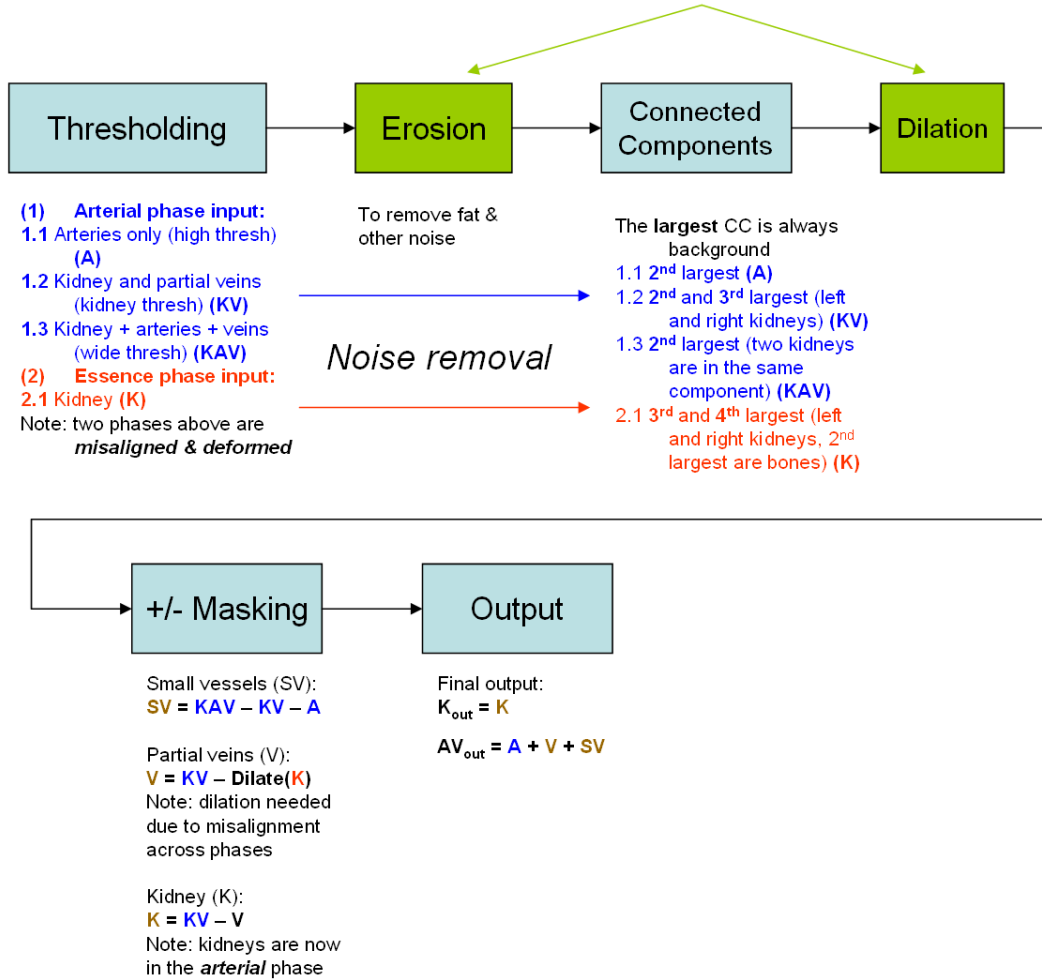


Figure 1: Our processing pipeline.

## 2 Results

We present some intermediate and final results from applying our pipeline to the clinical CTa data.