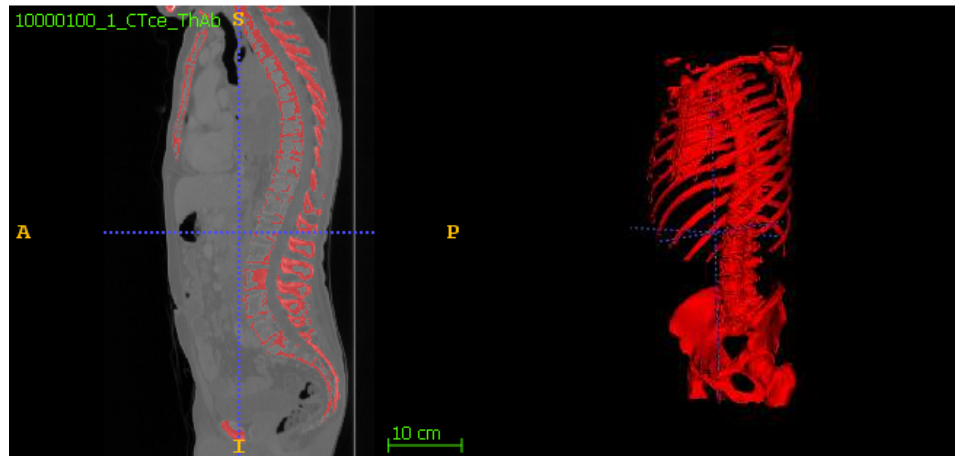


MIP course - Ex1: part1

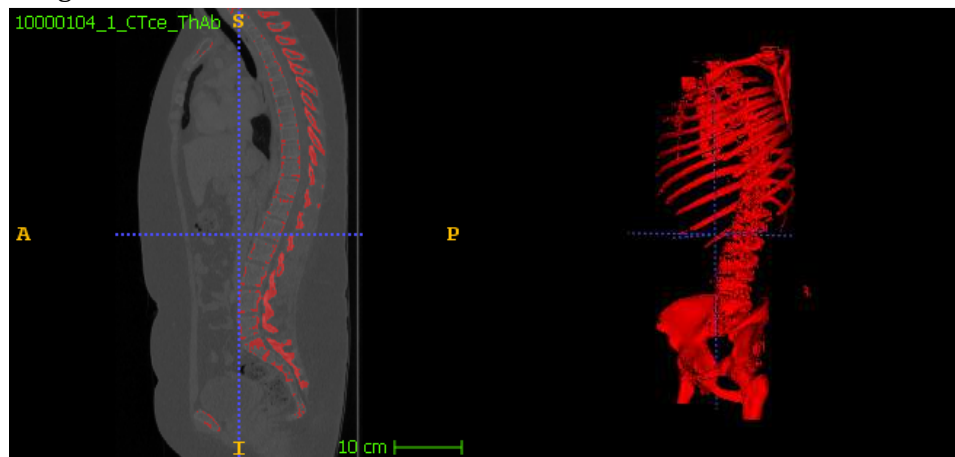
Clara Herscu, id: 203319371

Results:

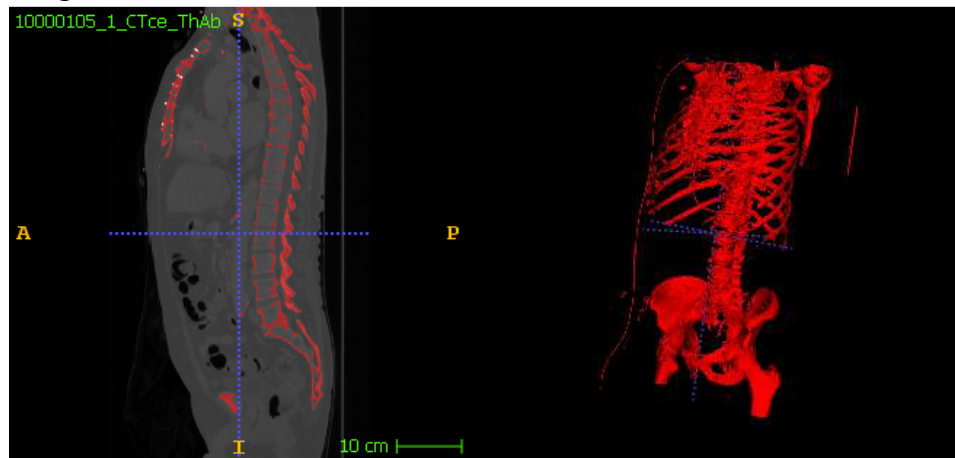
1. 10000100:
 - a. Min TH: 250
 - b. Images:



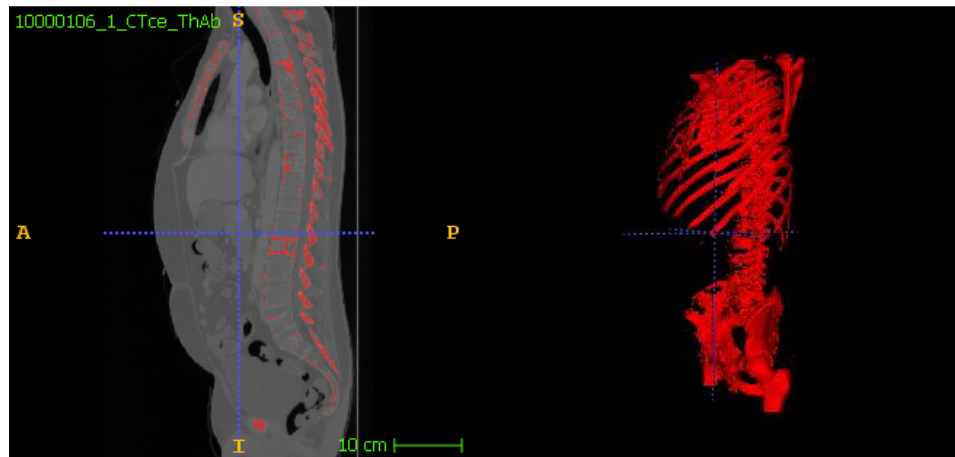
2. 10000104:
 - a. Min TH: 270
 - b. Images:



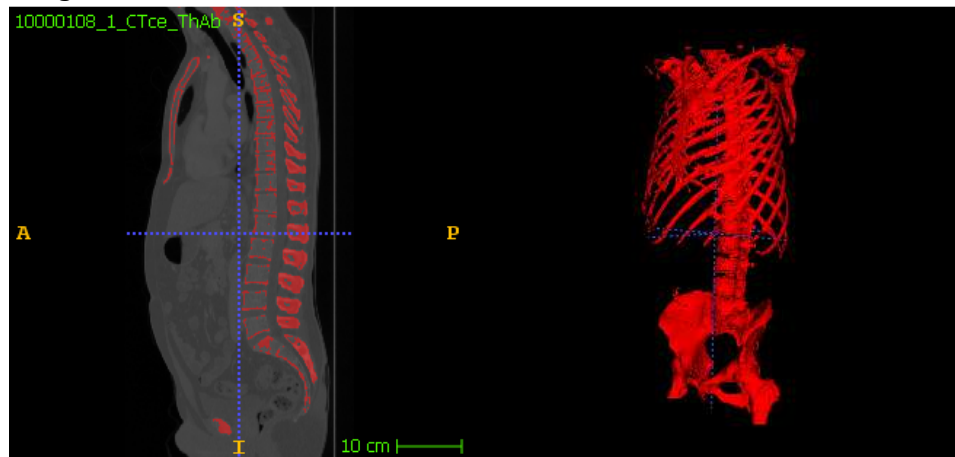
3. 10000105:
a. Min TH: 270
b. Images:



4. 10000106:
a. Min TH: 250
b. Images:



5. 10000108:
a. Min TH: 290
b. Images:



Comments and explanations:

1. The min TH that was chosen is not necessarily the global minimum but could be local minimum (chose the best one from the first 4 in the function). This heuristic came from the idea that sometimes the global maximum is "drawn" to the extremities of the functions' domain, even though this is not necessarily the best threshold, so I wanted to prevent that from happening.
2. I tested a variety of combinations of different morphological operators, but the one that I found that seemed to give the smoothest, most balanced results was the most simple combination of erosion and dilation in a form of a cube of 2 pixels.

Overall summary of connected components (left to right, top to bottom):

