AortaExplorer field-of-view cases

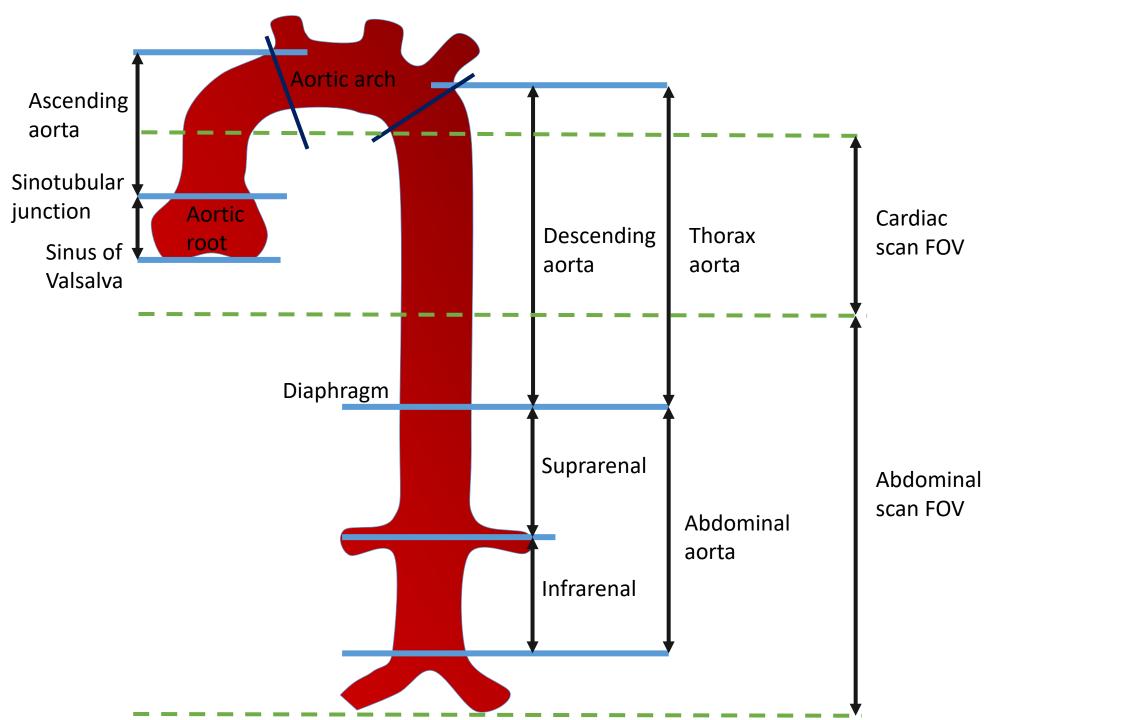
https://github.com/RasmusRPaulsen/AortaExplorer

Rasmus R. Paulsen

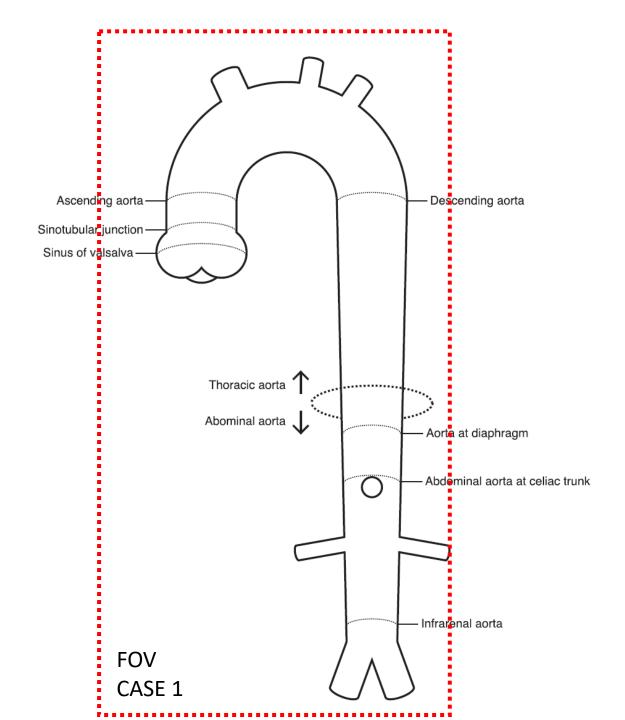
Last update: 17/10-2025

Description

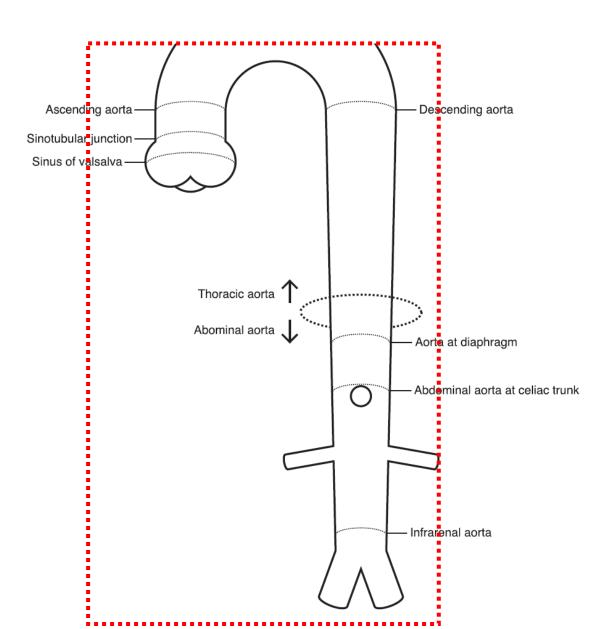
- This document contains descriptions of different scan field-of-views encountered during development and testing of AortaExplorer
- We aim to be able to automatically determine the scan FOV and decide the appropriate processing steps from this



Left common carotid Brachiocephalic trunk/ Brachiocephalic artery/ Subclavian artery innominate artery Ascending aorta-- Descending aorta Sinotubular junction -Sinus of valsalva-Abominal aorta - Aorta at diaphragm - Abdominal aorta at celiac trunk - Infrarenal aorta



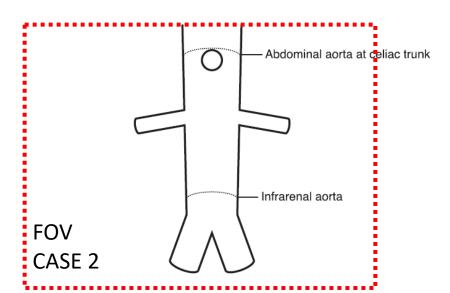
Case 1b

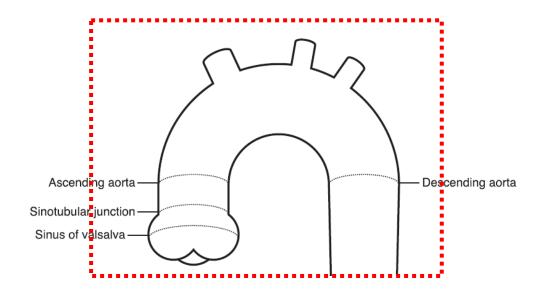


Case 1c Case 1d

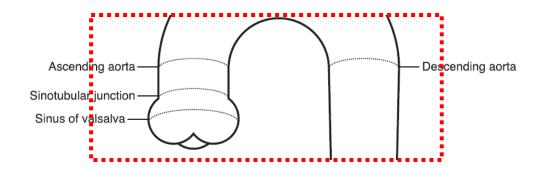
is visible.

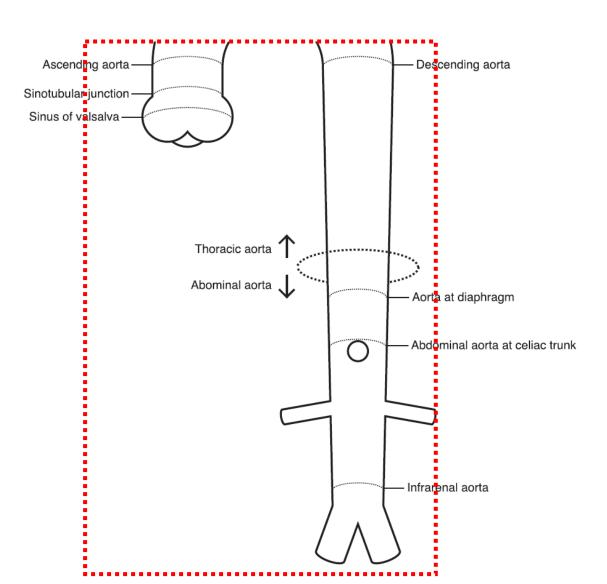
Top of scan - Descending aorta Ascending aorta Sinotubular junction Sinus of valsalva The difference between 1c and 1d is a matter of how much of the upper top that Thoracic aorta Abominal aorta - Aorta at diaphragm - Abdeminal aorta at celiac trunk - Infrar<mark>e</mark>nal aorta

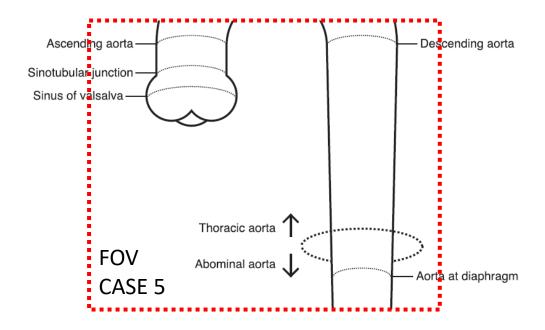




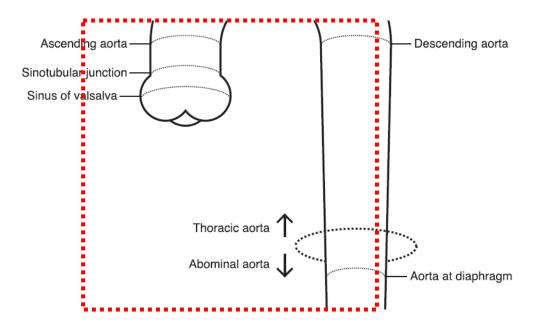
Case 3b

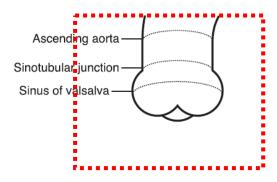


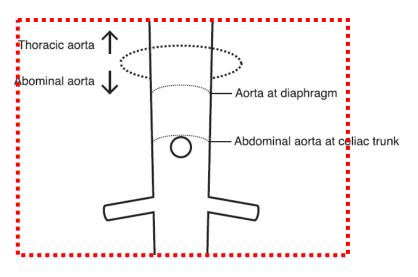




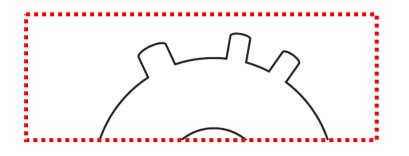
Case 5b







Case 8



Case 8b



Checklist

- Aorta parts: 1 or 2
- Aorta/iliac point (bifurcation point)
- Aortic arch points (brachiocephalic, left common carotid, subclavian artery)
- LVOT point (Ventriculaortic point)
- Which sides of the scan are touched (Top/Bottom/other sides)

	Aorta parts	Iliac point	Arch points	LVOT point	Touches borders of scan	Useful
Case 1	1	х	х	Х		Yes
Case 1b	1	Х		X	Тор	Yes
Case 1c+1d	1	х	х	X	Тор	Yes
Case 2	1	Х			top	Yes
Case 3	1		х	X	Bottom	Yes
Case 3b	1			X	Top+Bottom	Yes
Case 4	2	х		х	Тор	Yes
Case 5	2			X	Top+Bottom	Yes
Case 5b	2			X	Top+Bottom+Si de	Maybe
Case 6	1			X	Тор	Yes
Case 7	1				Top+Bottom	Maybe
Case 8	1		Х		Bottom	no
Case 8b	1				Top+Bottom	no