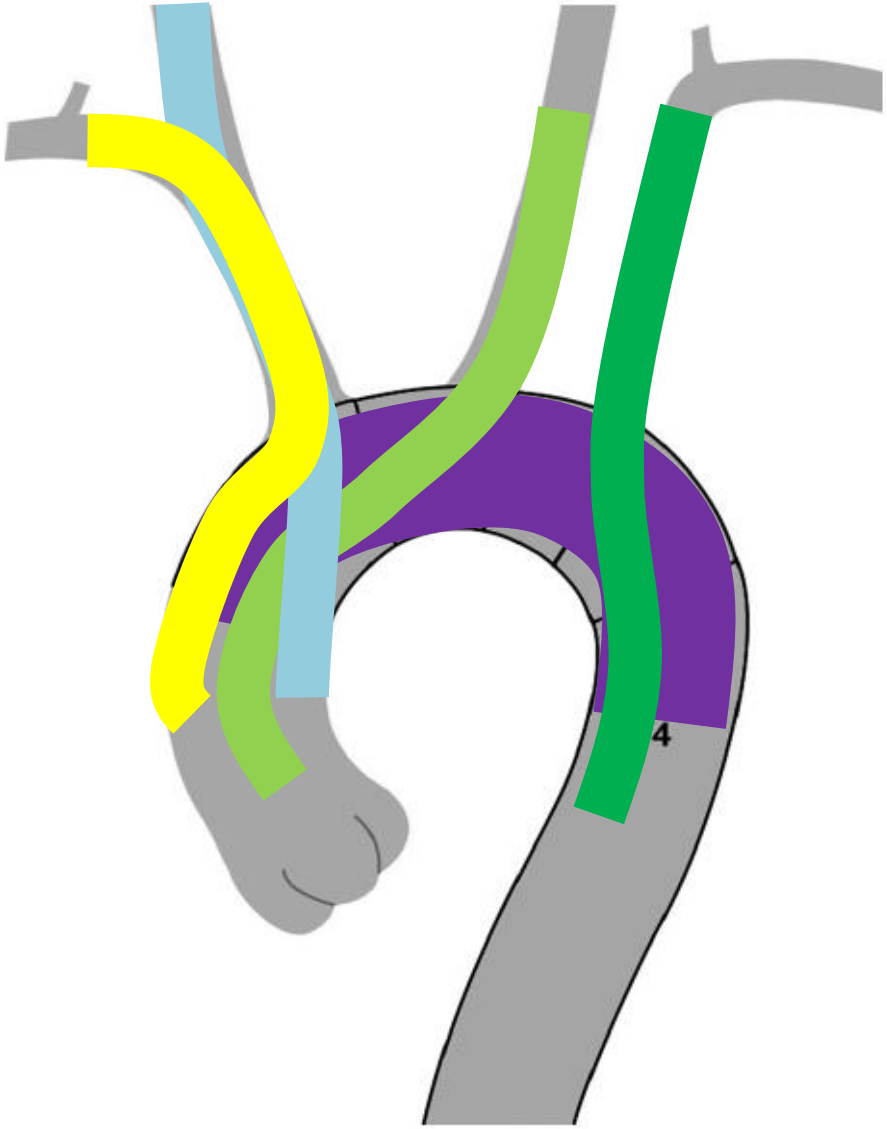
Chimney case in the arch (Video session)

Zoran Rancic, MD, PhD
on behalf of Vascular Specialists @ UHZ

Intended procedure



J ENDOVASC THER
2013;20:728–734

◆CLINICAL INVESTIGATION ◆

Periscope Endograft Technique to Revascularize the Left Subclavian Artery During Thoracic Endovascular Aortic Repair

Mario Lachat, MD[1]; Dieter Mayer, MD[1]; Thomas Pfammatter, MD[2]; Frank J. Criado, MD[3]; Zoran Rancic, MD, PhD[1]; Thomas Larzon, MD, PhD[4]; Frank J. Veith, MD[1,5]; and Felice Pecoraro, MD[1,6]

[1]Clinic for Cardiovascular Surgery and [2]Interventional Radiology, University Hospital Zurich, Switzerland. [3]Division of Vascular Surgery and Vascular Intervention, Union Memorial Hospital-MedStar Health, Baltimore, Maryland, USA. [4]Department of Cardio-Thoracic and Vascular Surgery, Örebro University Hospital, Örebro, S
York, and The Cleveland Clinic, Cleveland, C
Palermo, AOUP "P. C

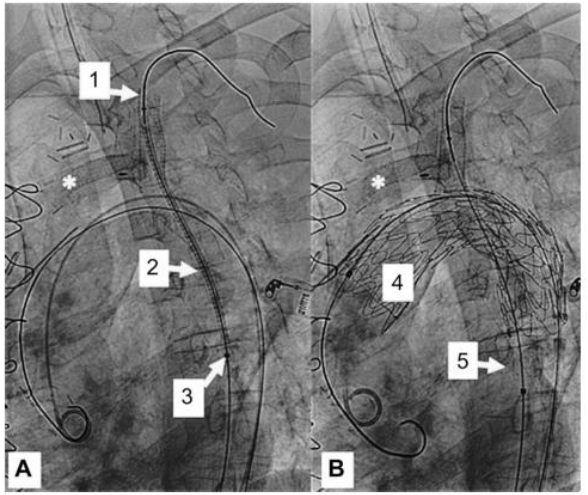
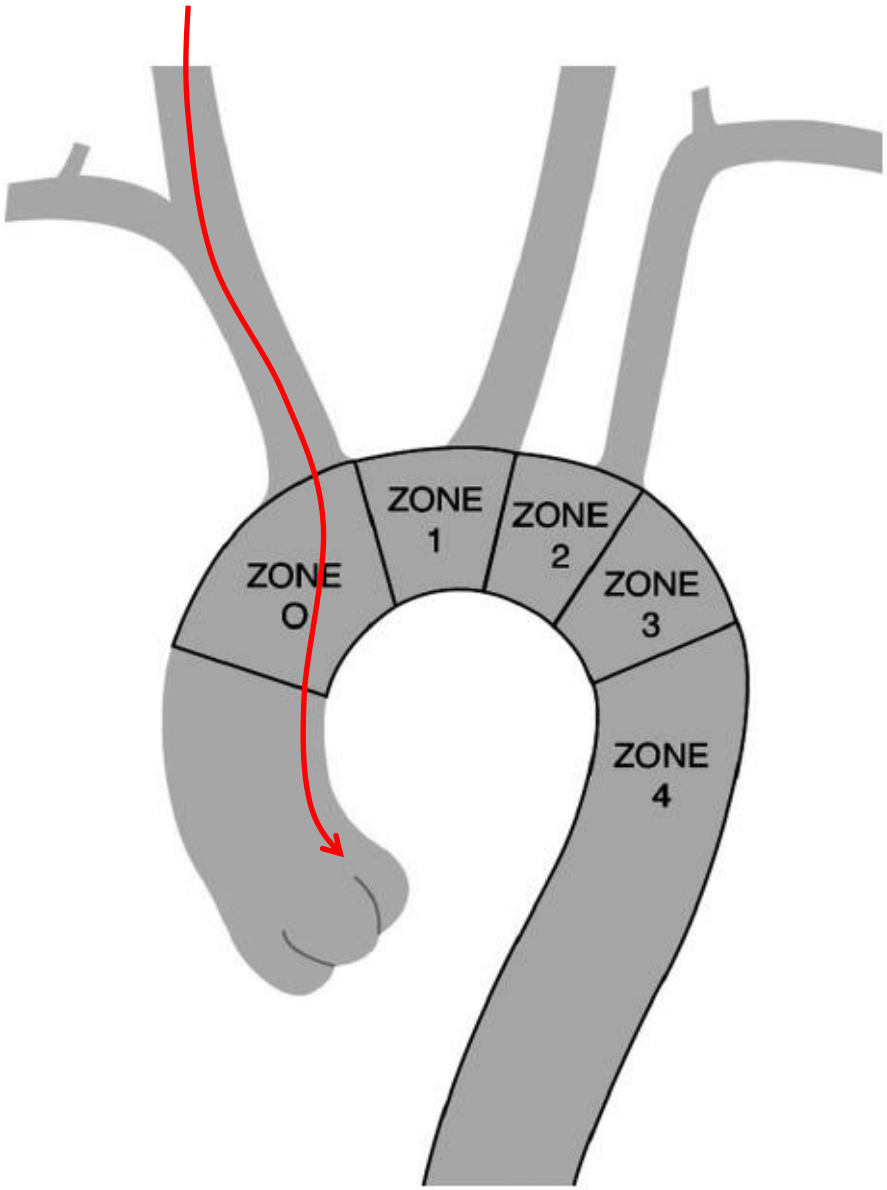
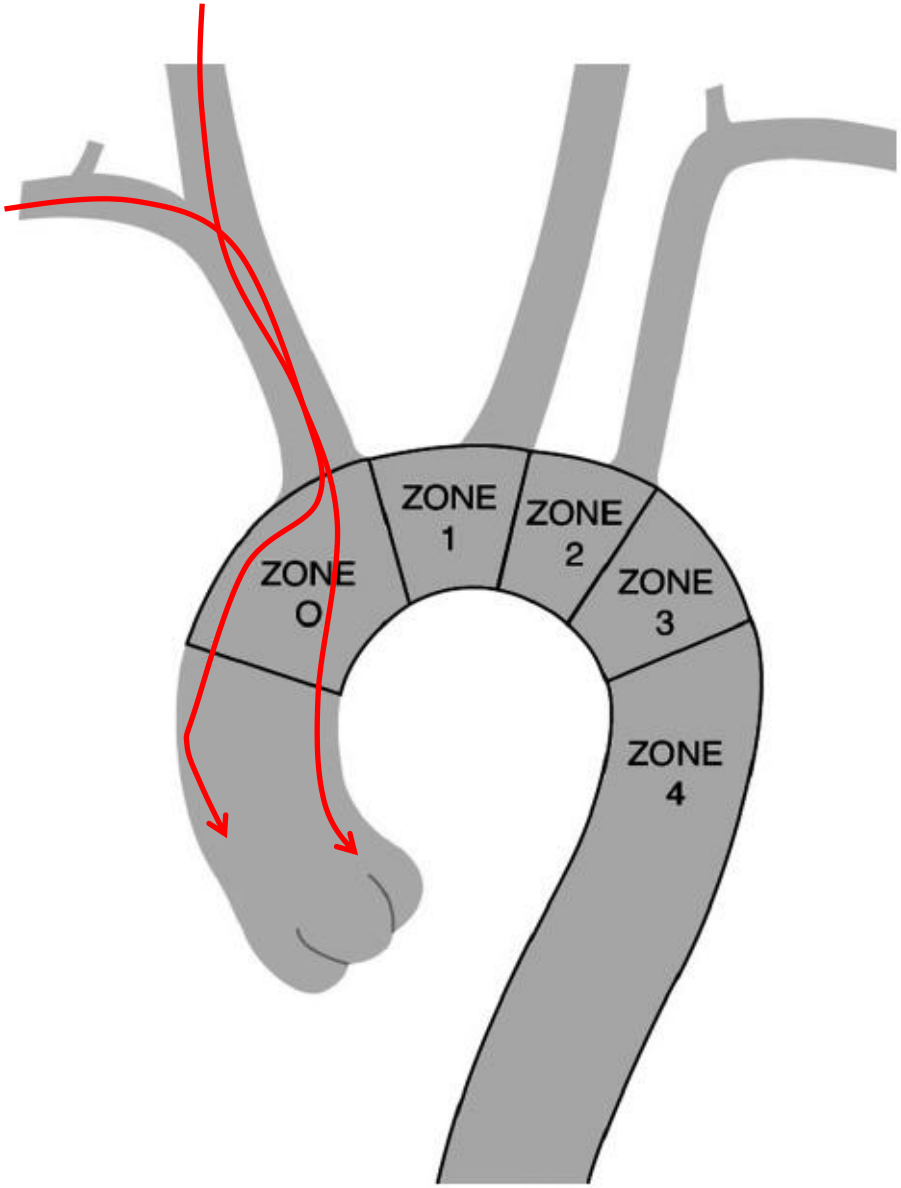


Figure 2 ◆ Periscope endograft technique. In these fluoroscopic views, (**A**) the periscope endograft with the first 11-mm×10-cm Viabahn (1 is the proximal and 2 is the distal end) already deployed. The second 11-mm×10-cm Viabahn (3) will be deployed after the thoracic stent-graft has been deployed. (**B**) The C-TAG (4) thoracic stent-graft and second Viabahn (5) are deployed. The asterisks indicate the 9-mm×5-cm Viabahn in the left common carotid artery used for VORTEC (see Figure 1).

Procedure stepps

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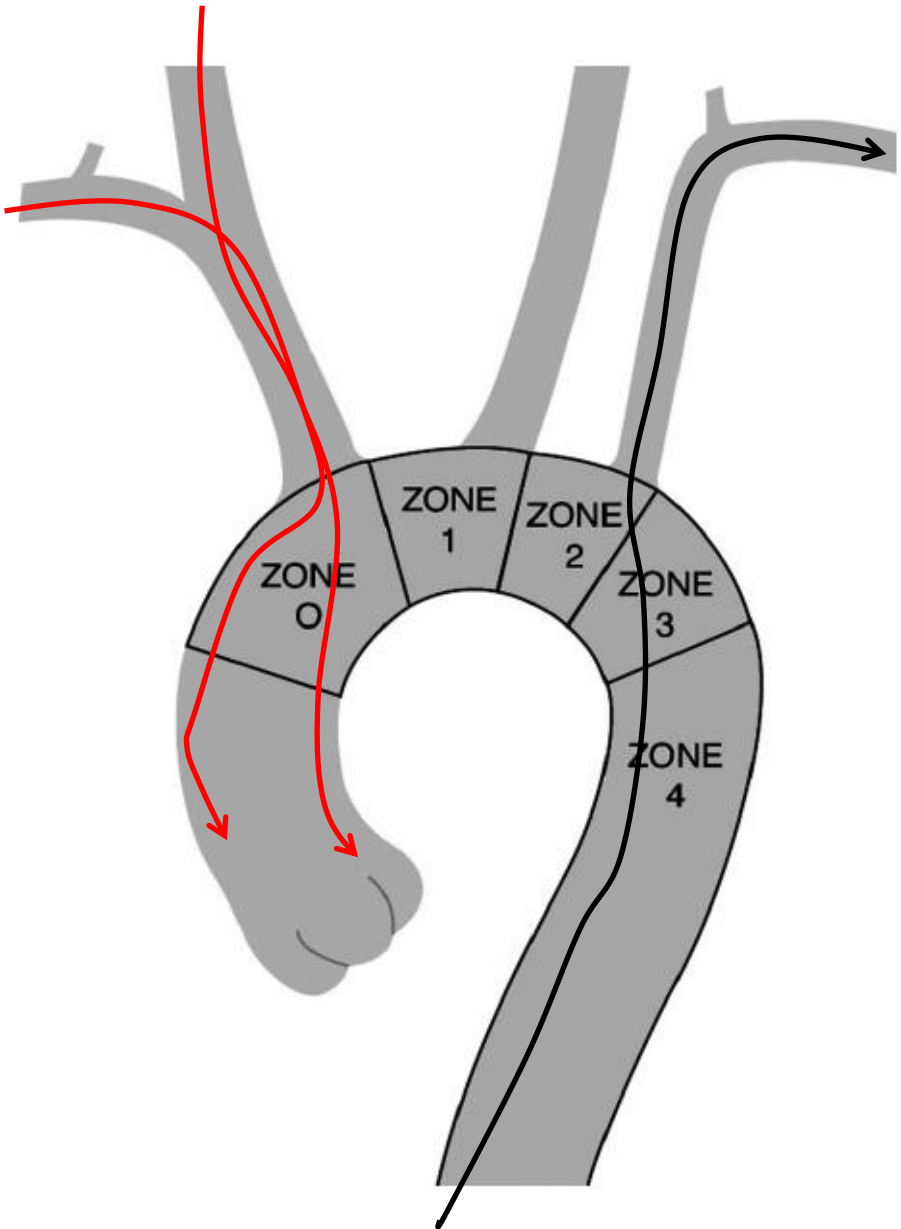
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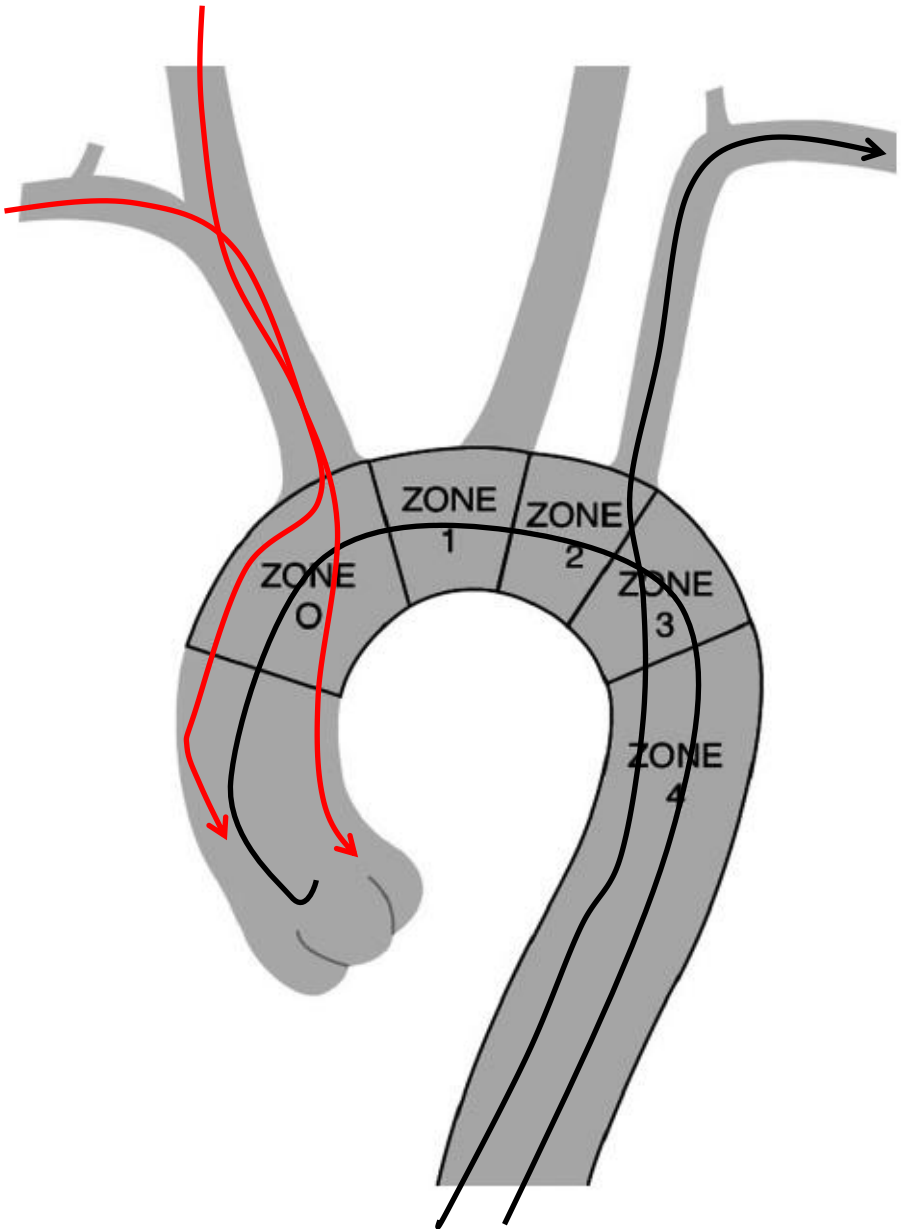
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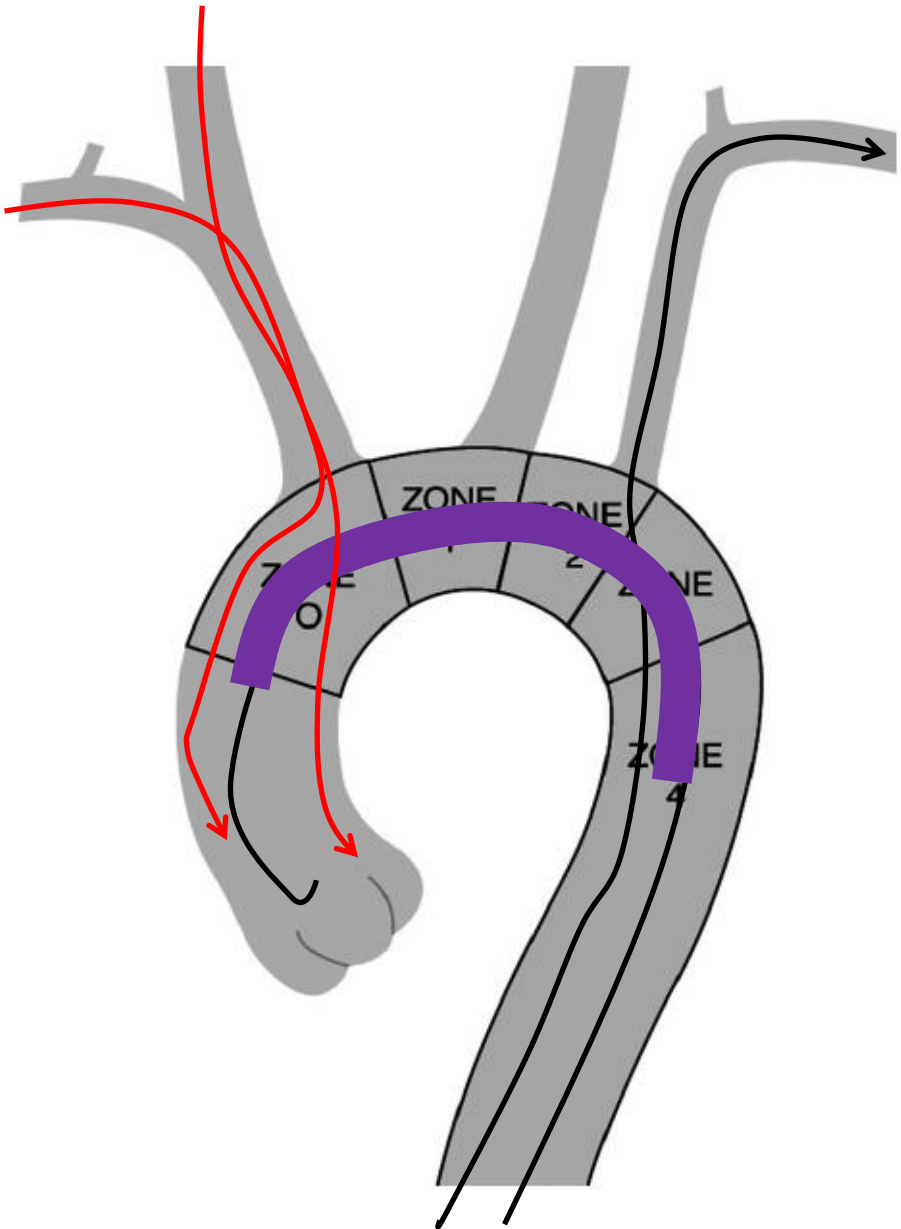
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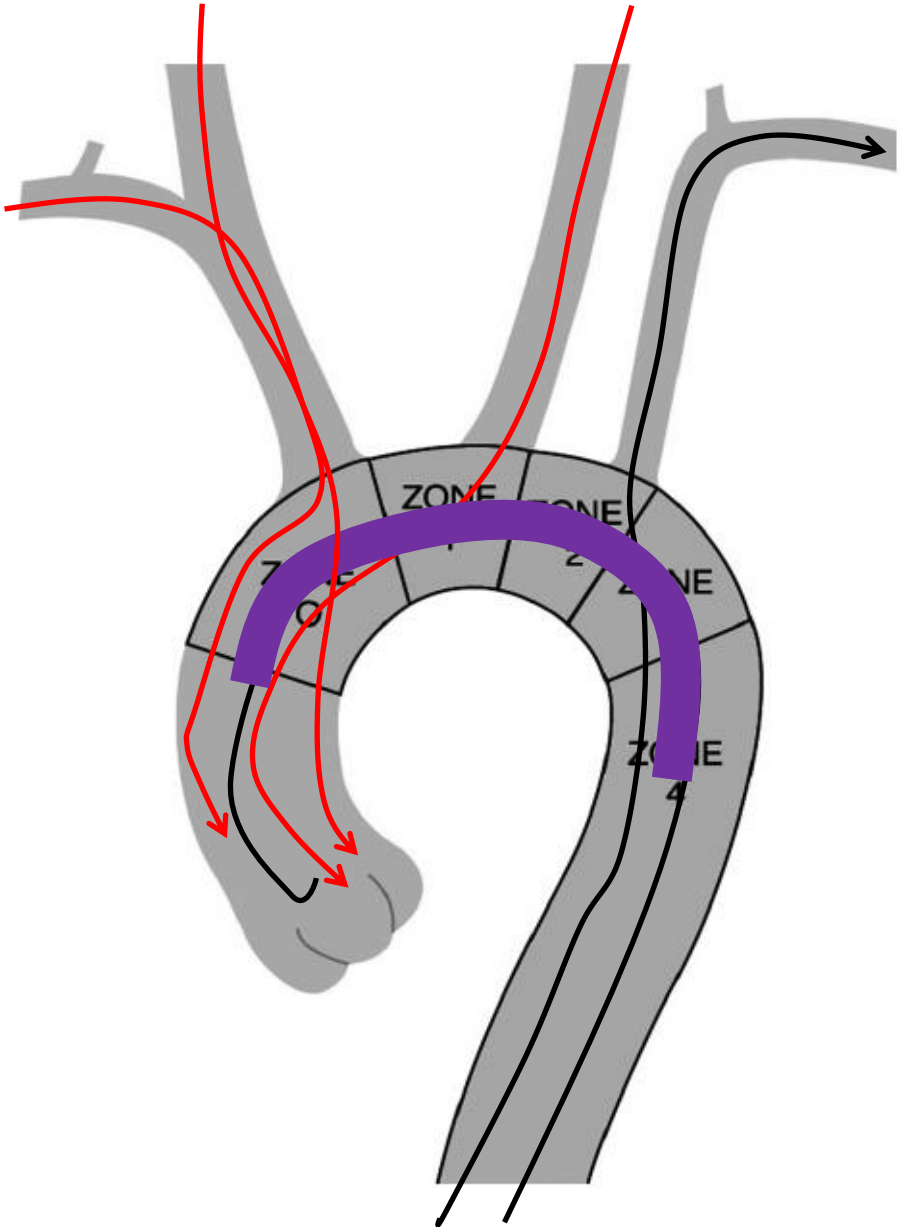
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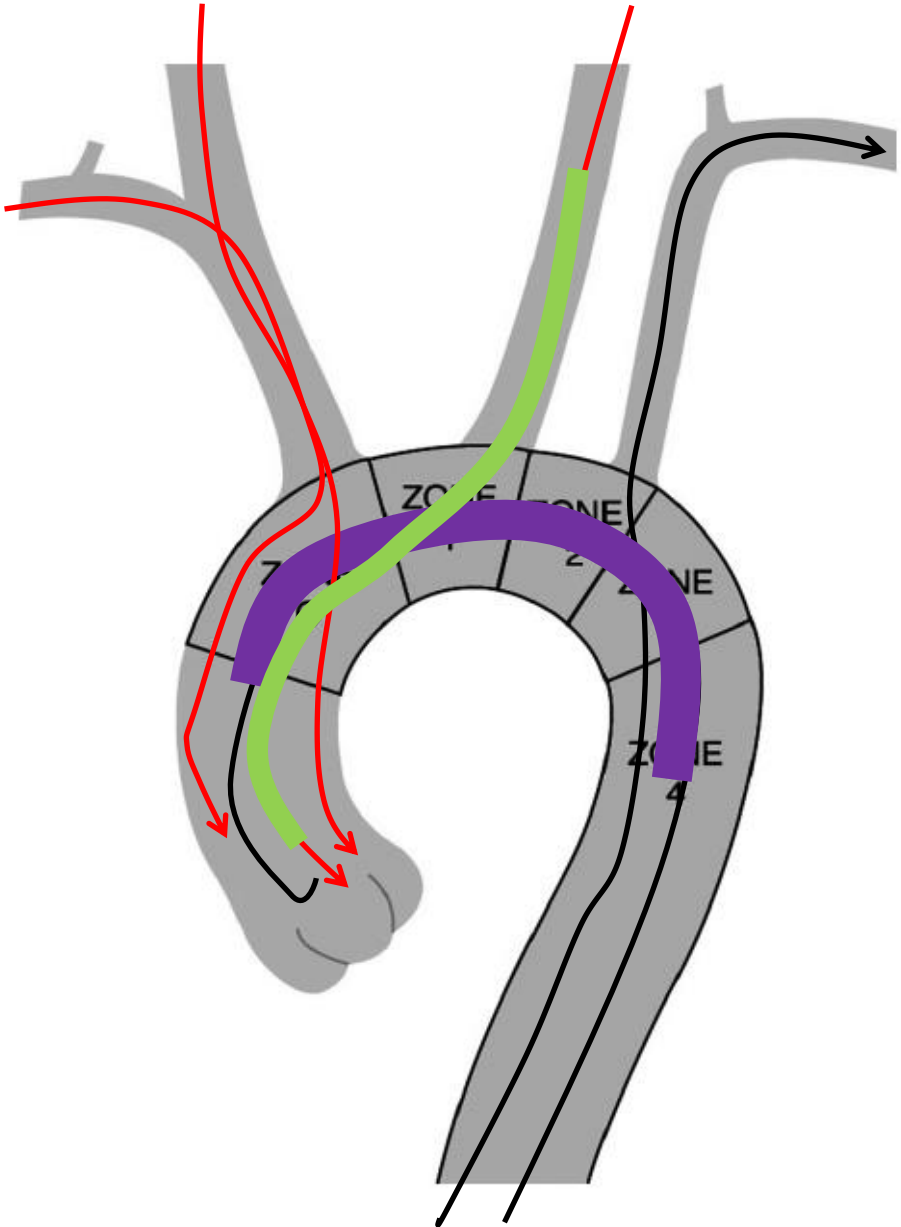
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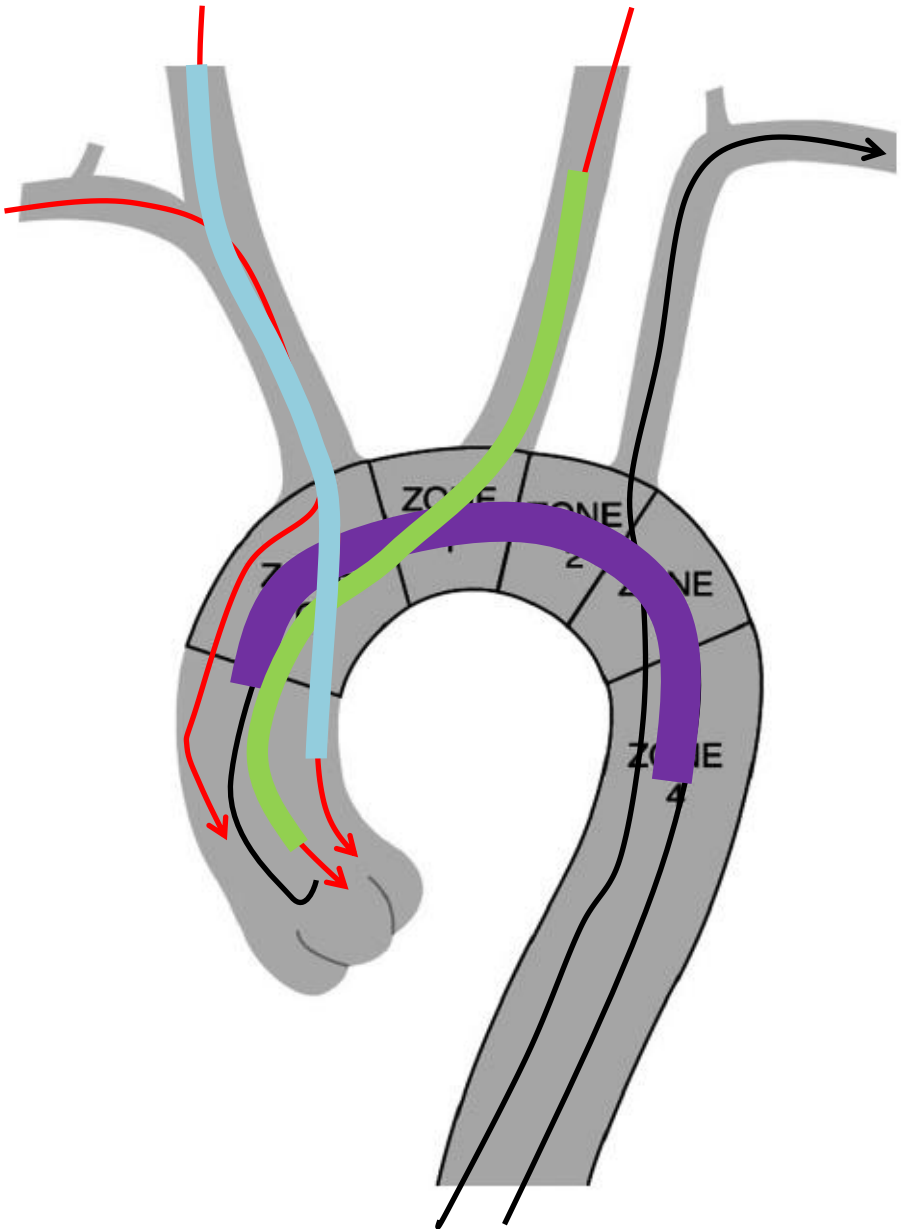
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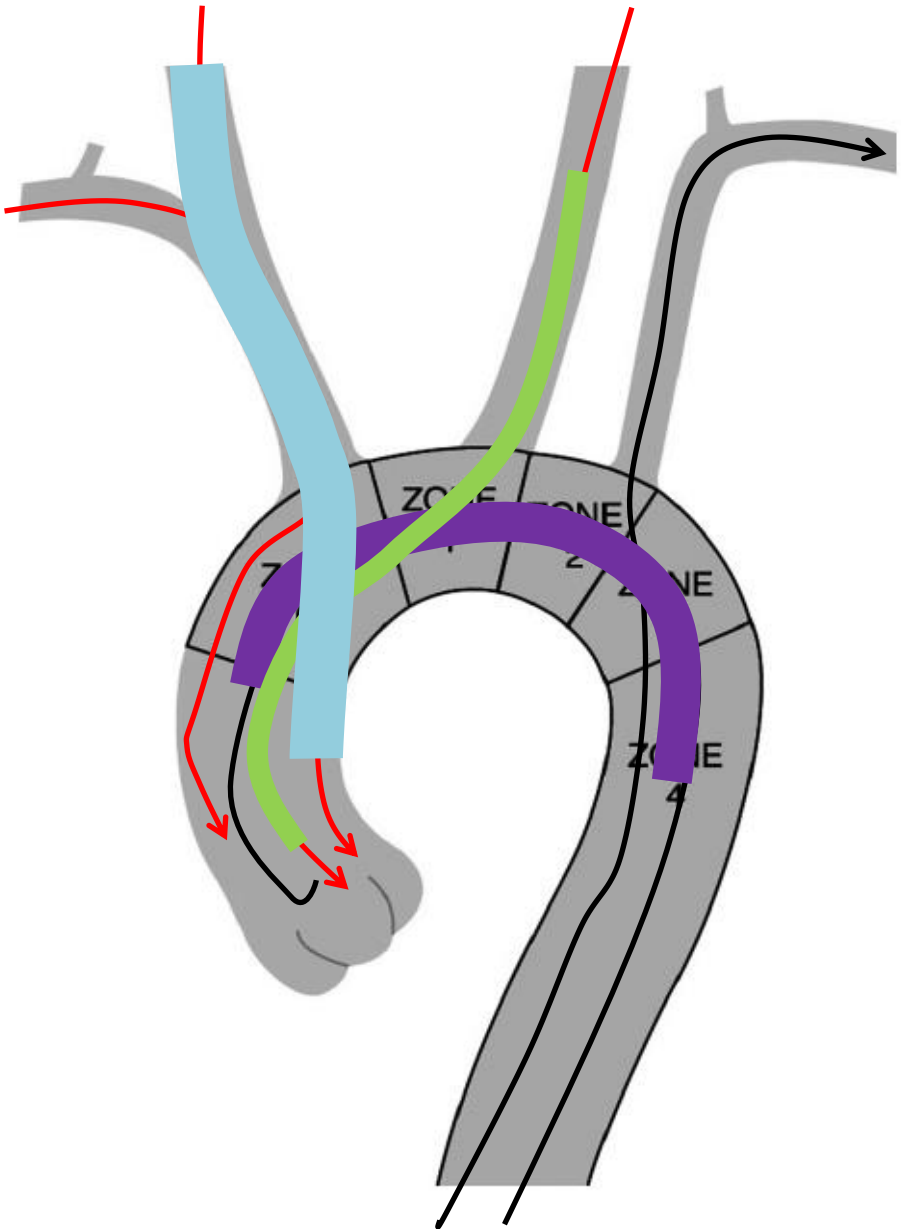
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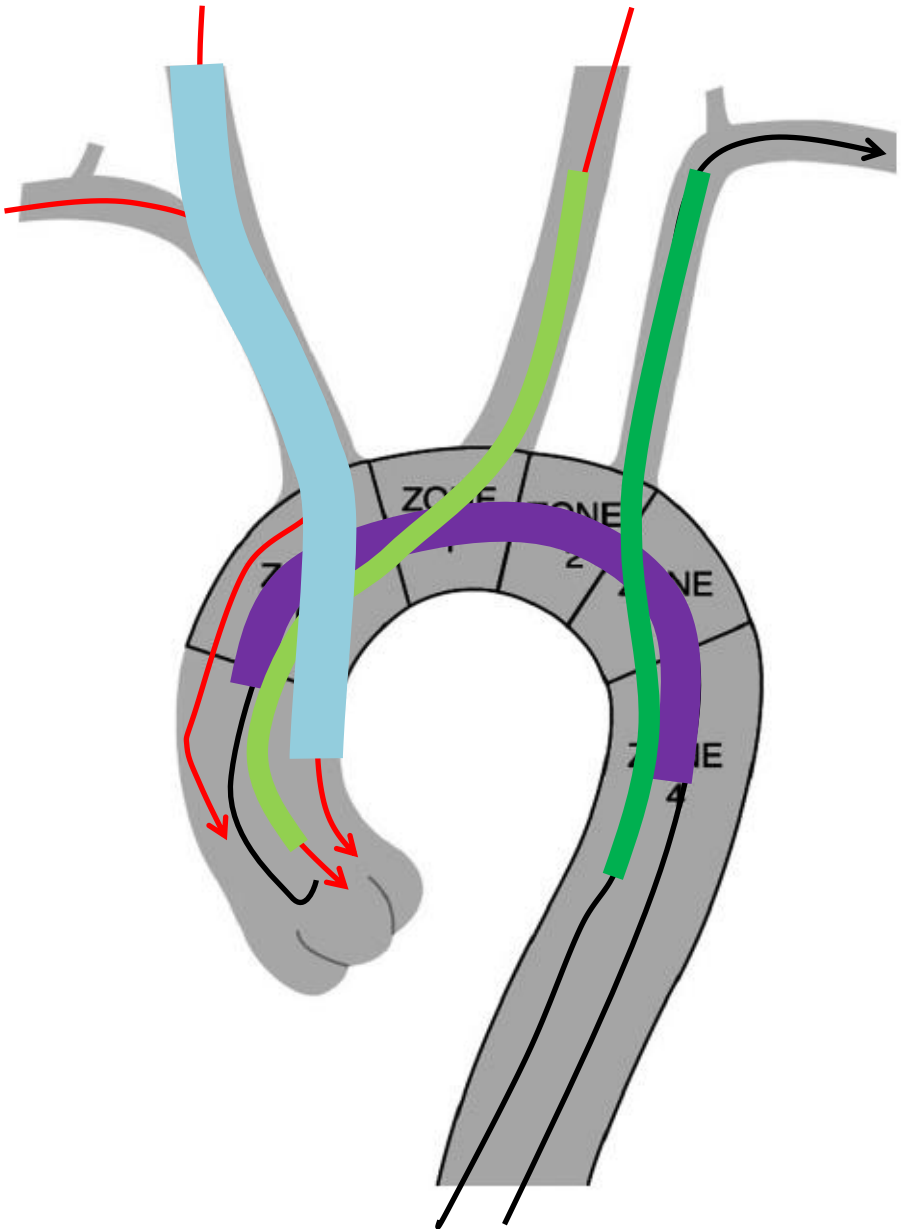
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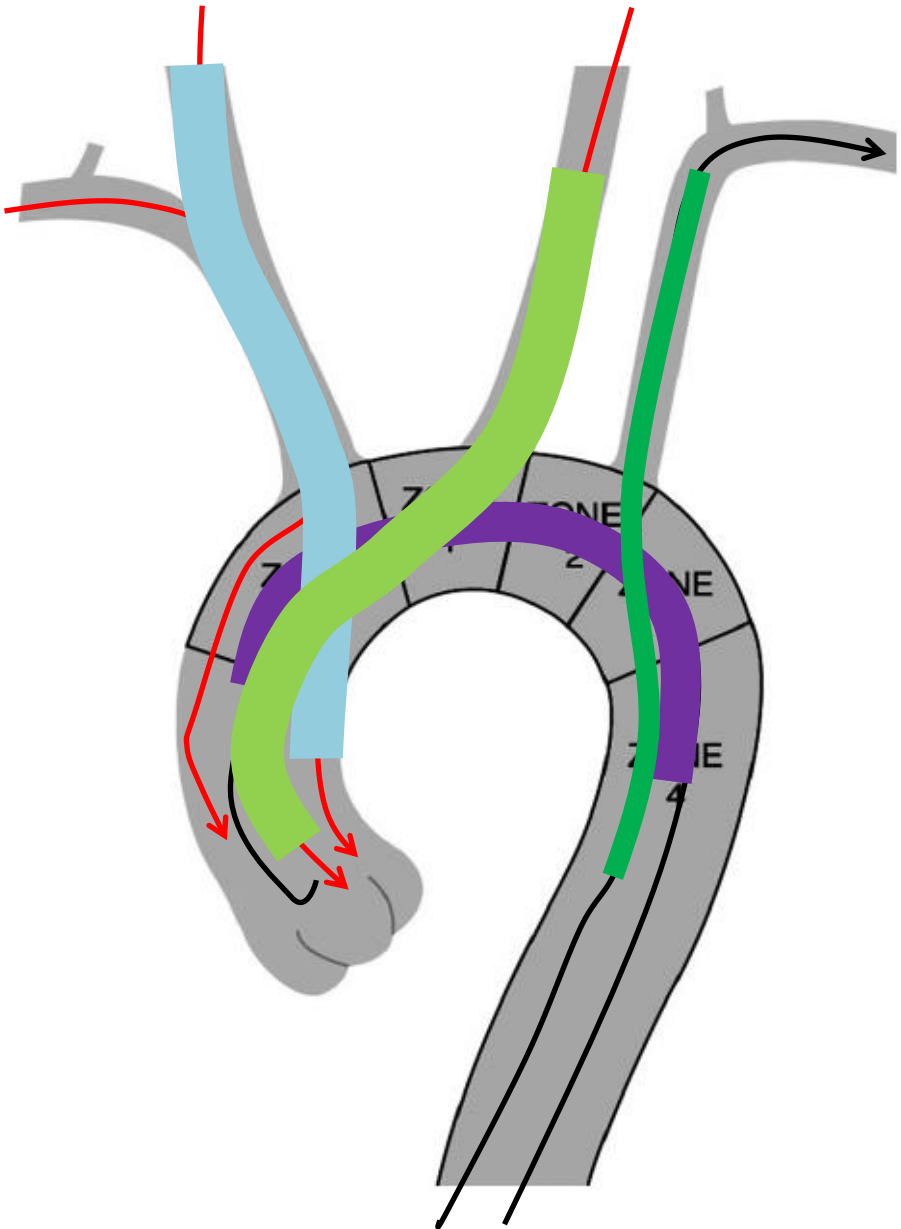

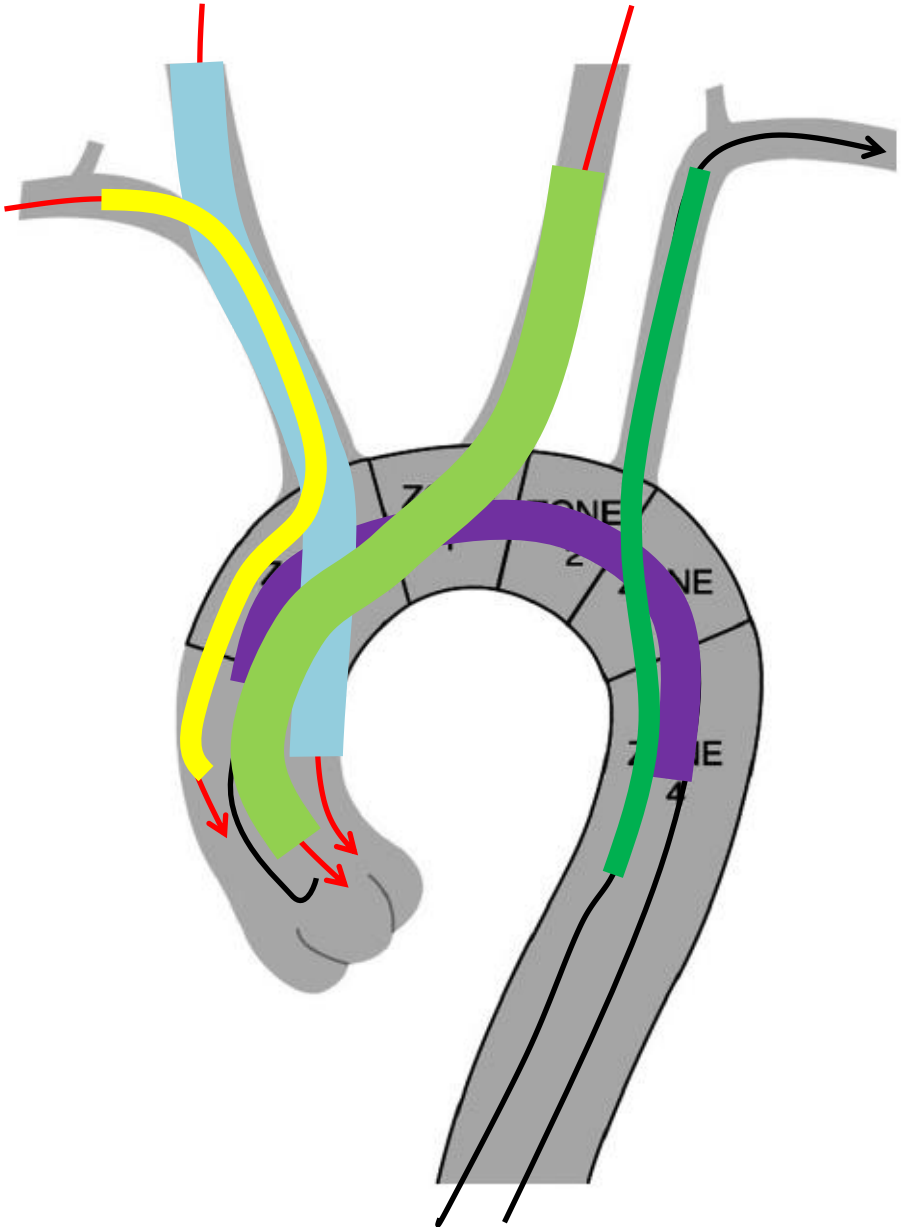

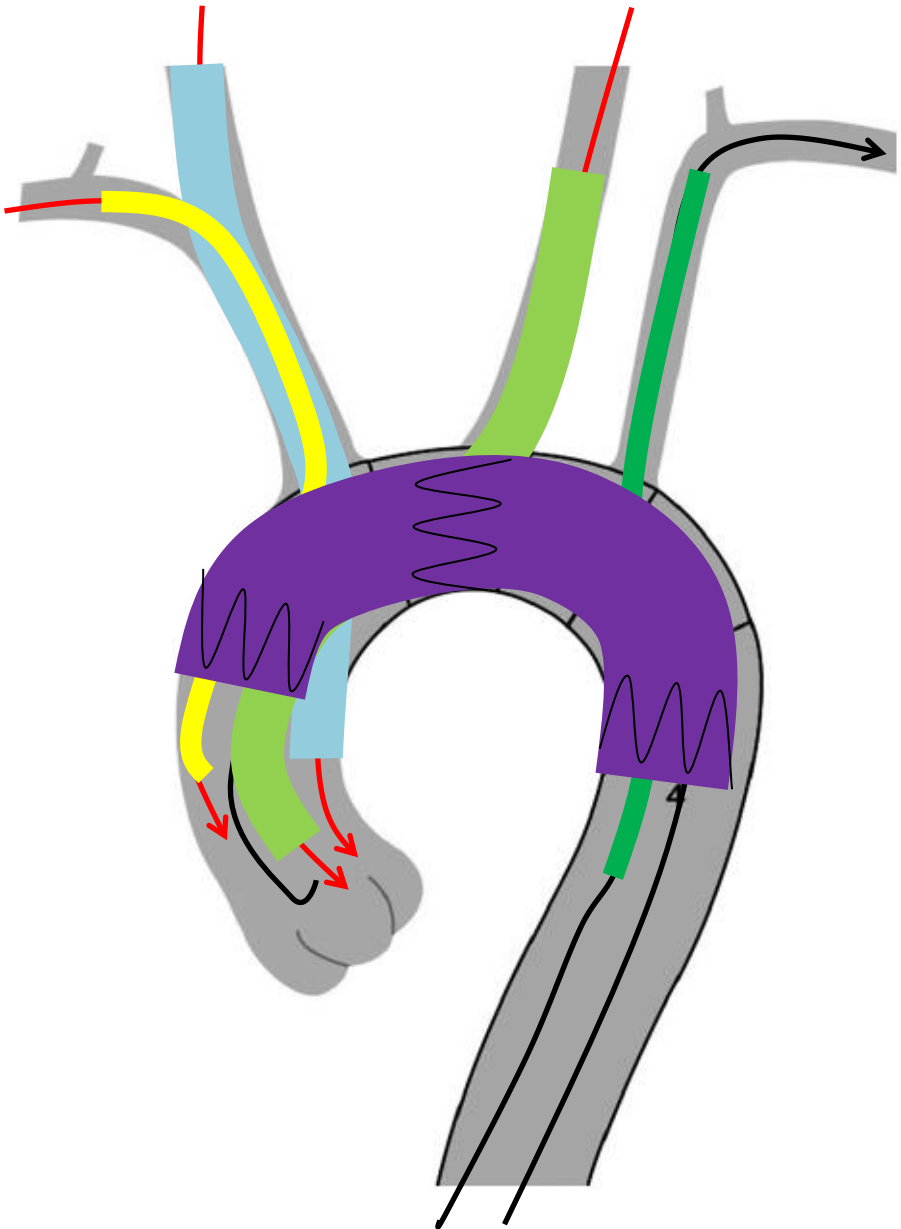

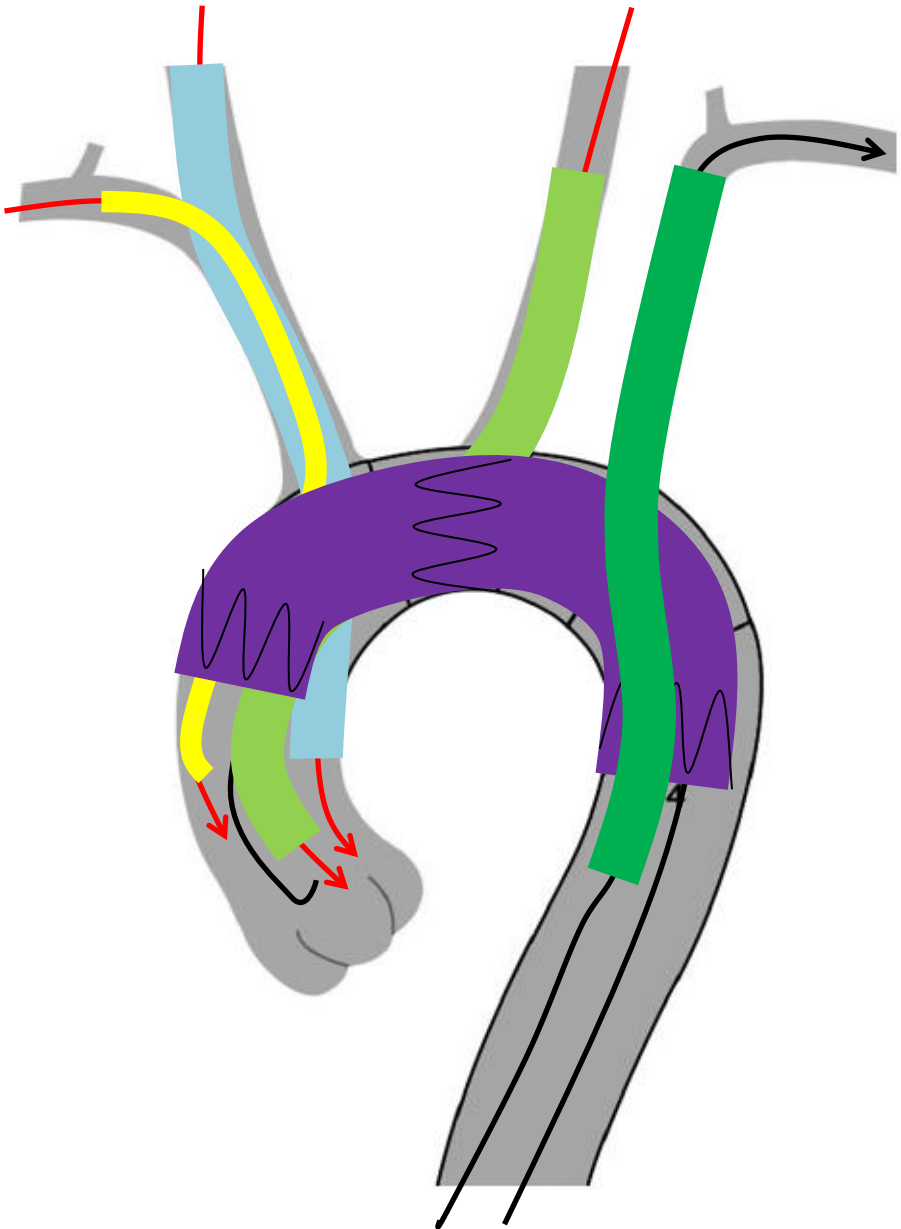

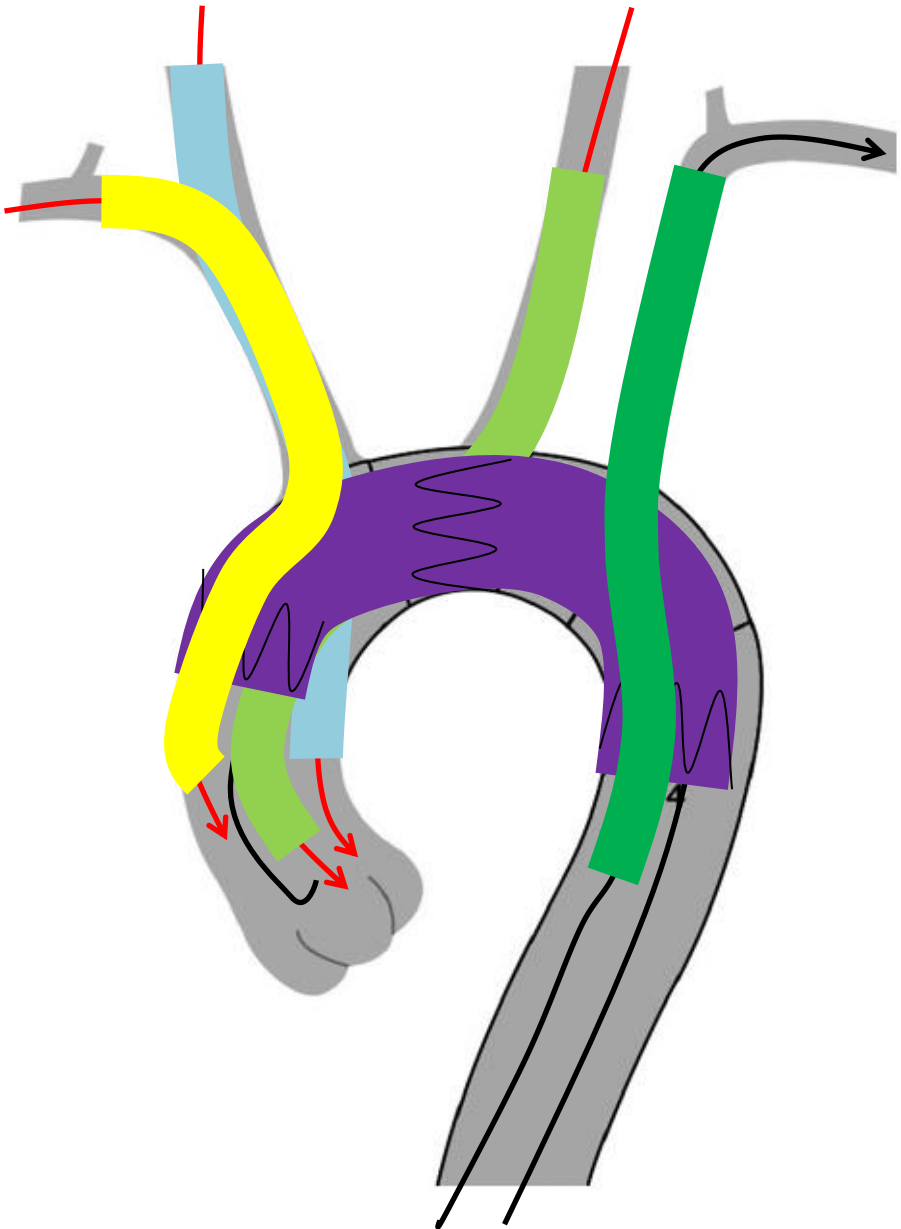

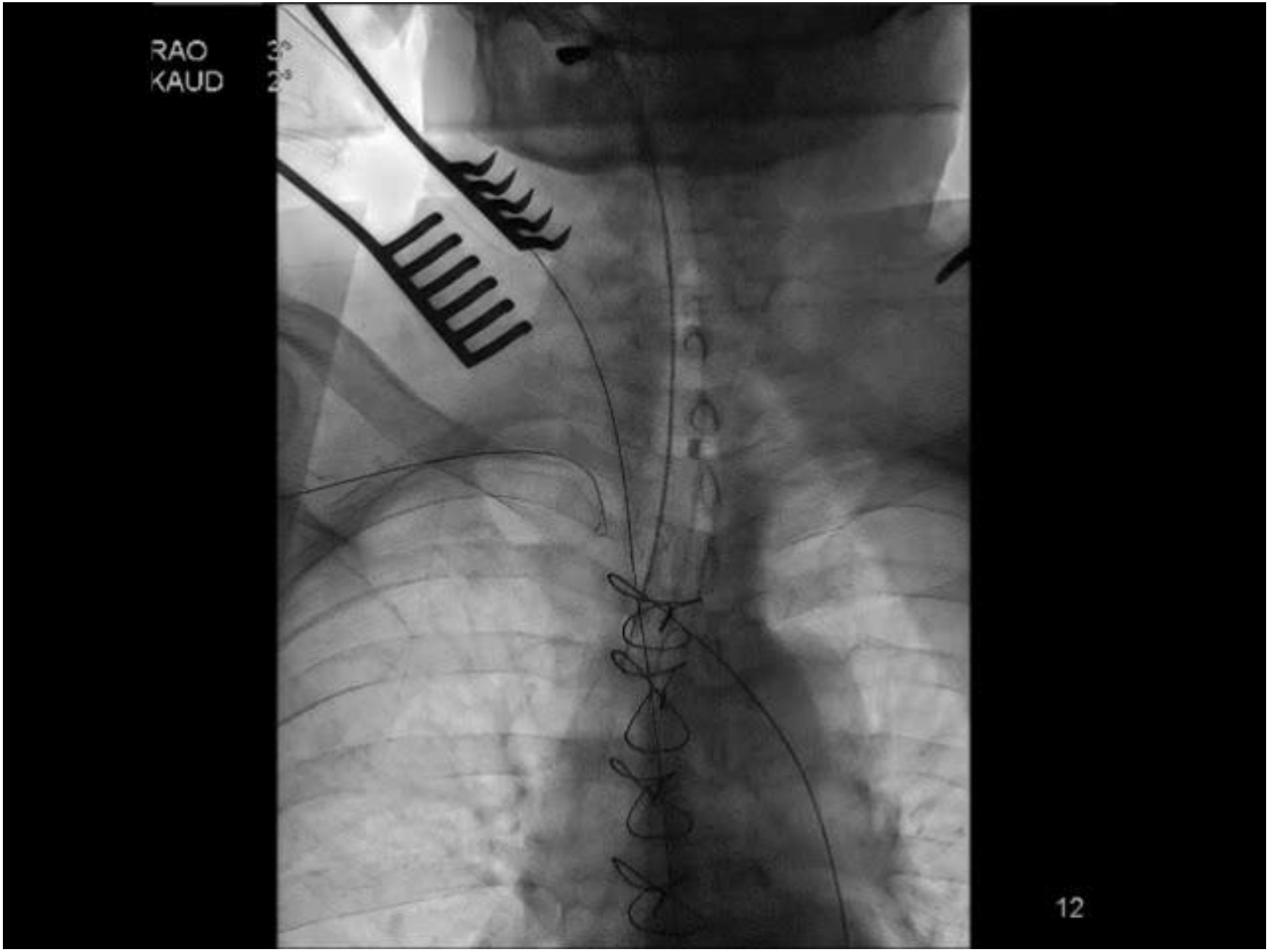
RAO 3°
KAUD 2°
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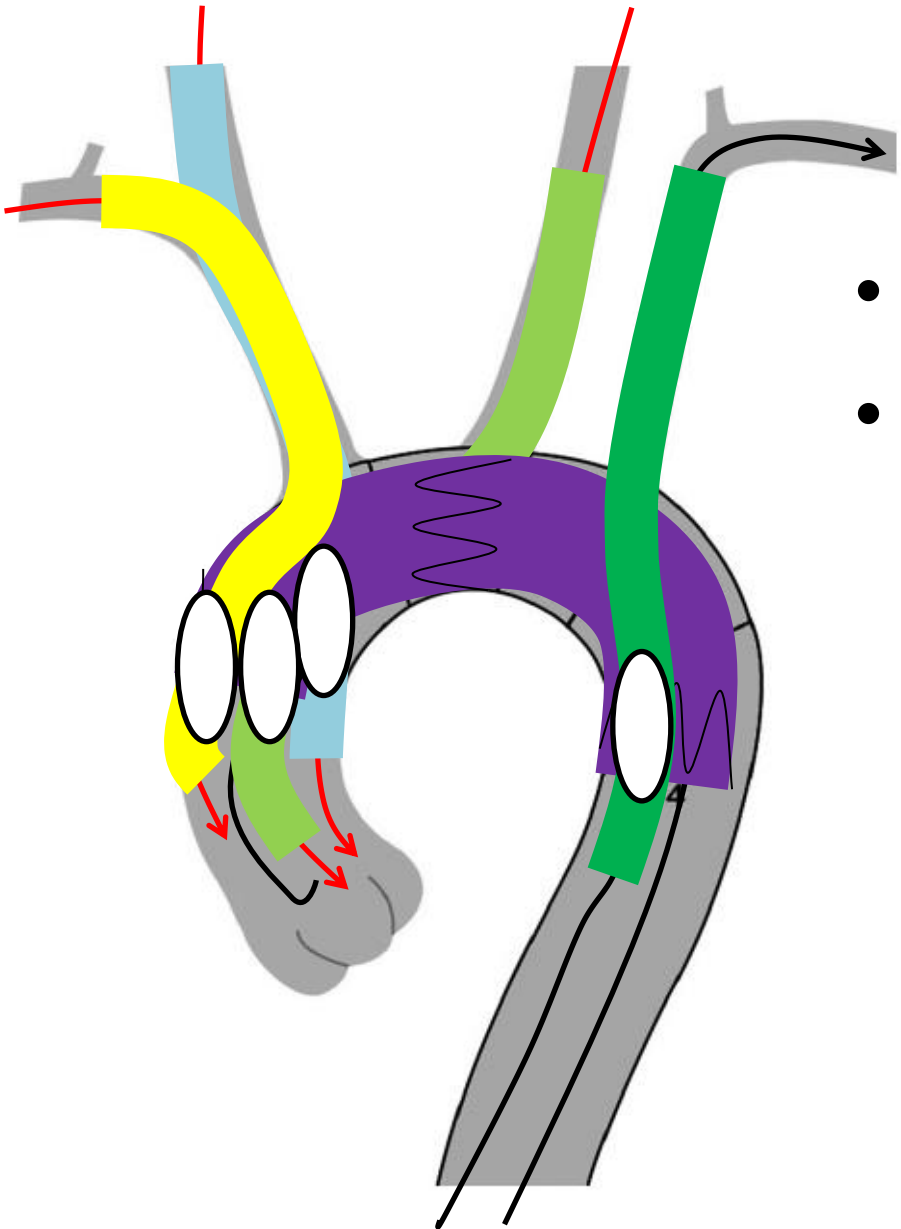
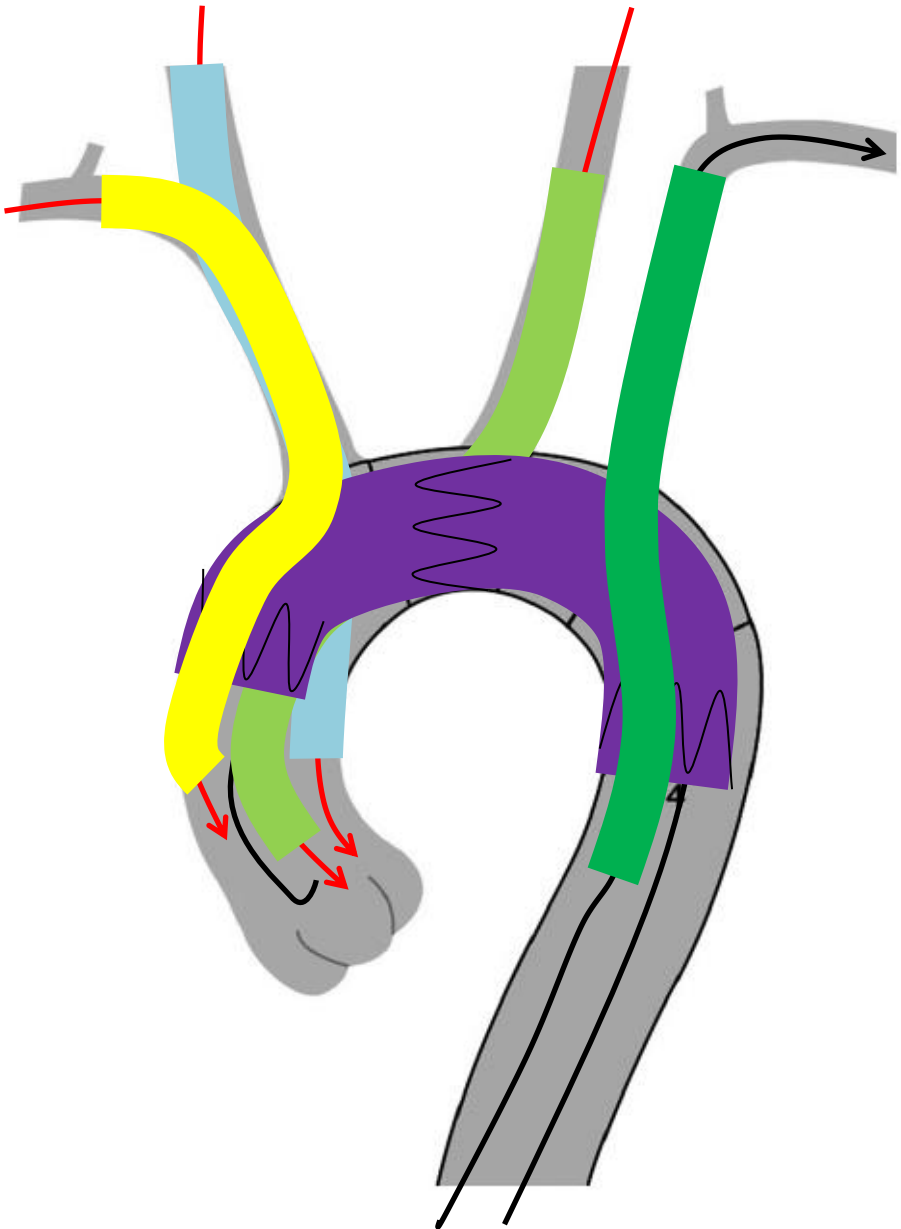
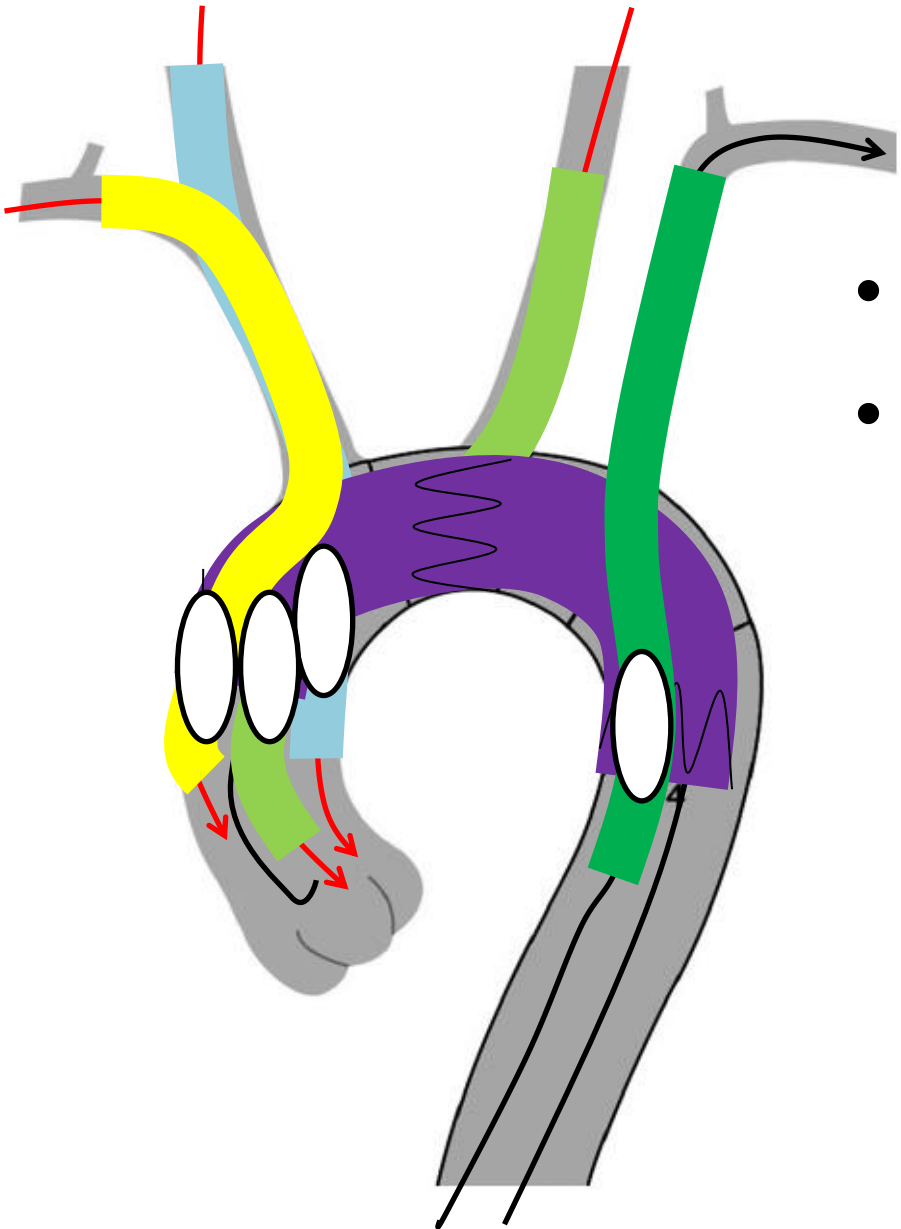


- PTA of bridging stents
- Kissing optional
  - Mostly distal landing zone

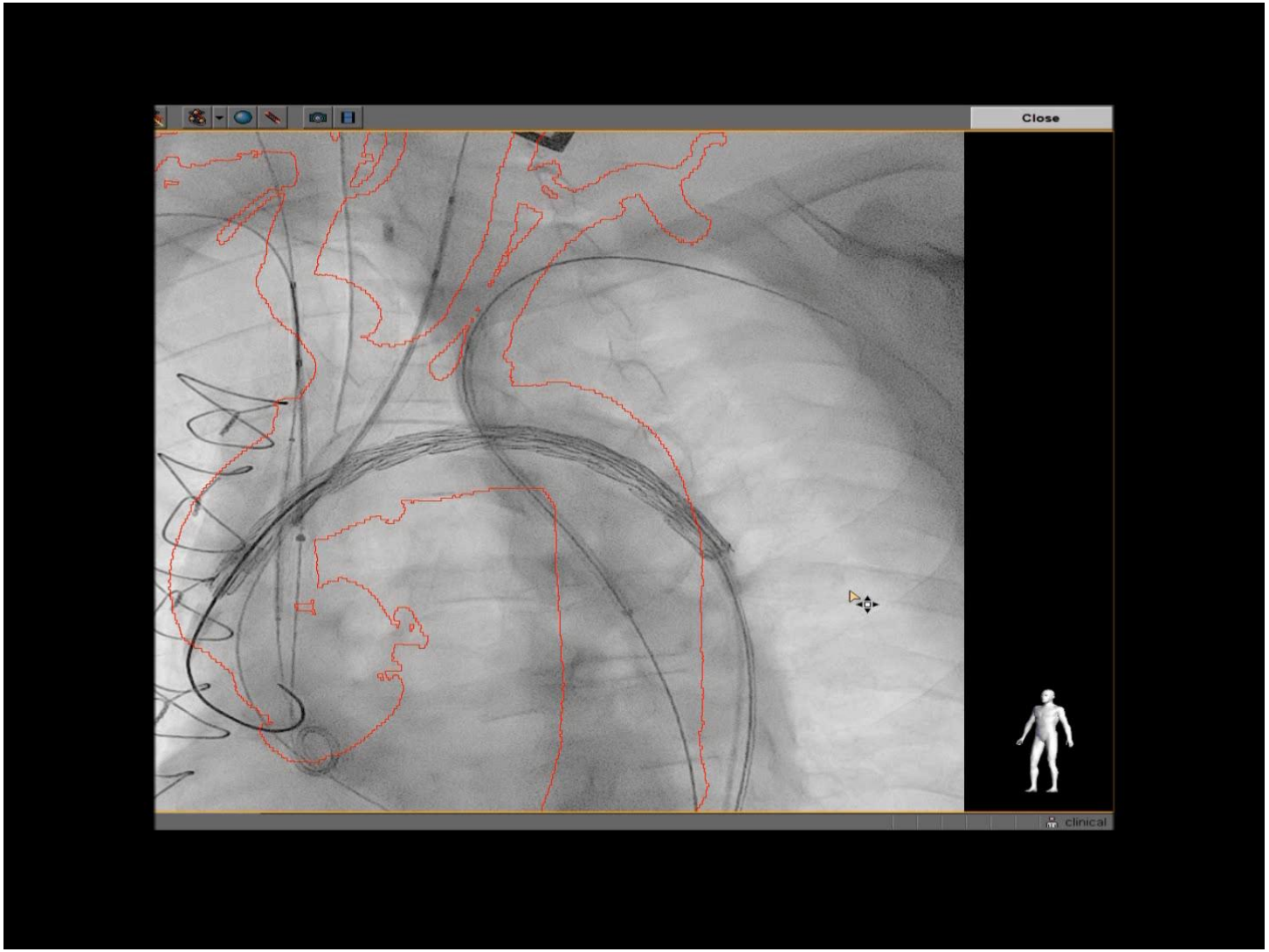


+ Relining with Wallstent



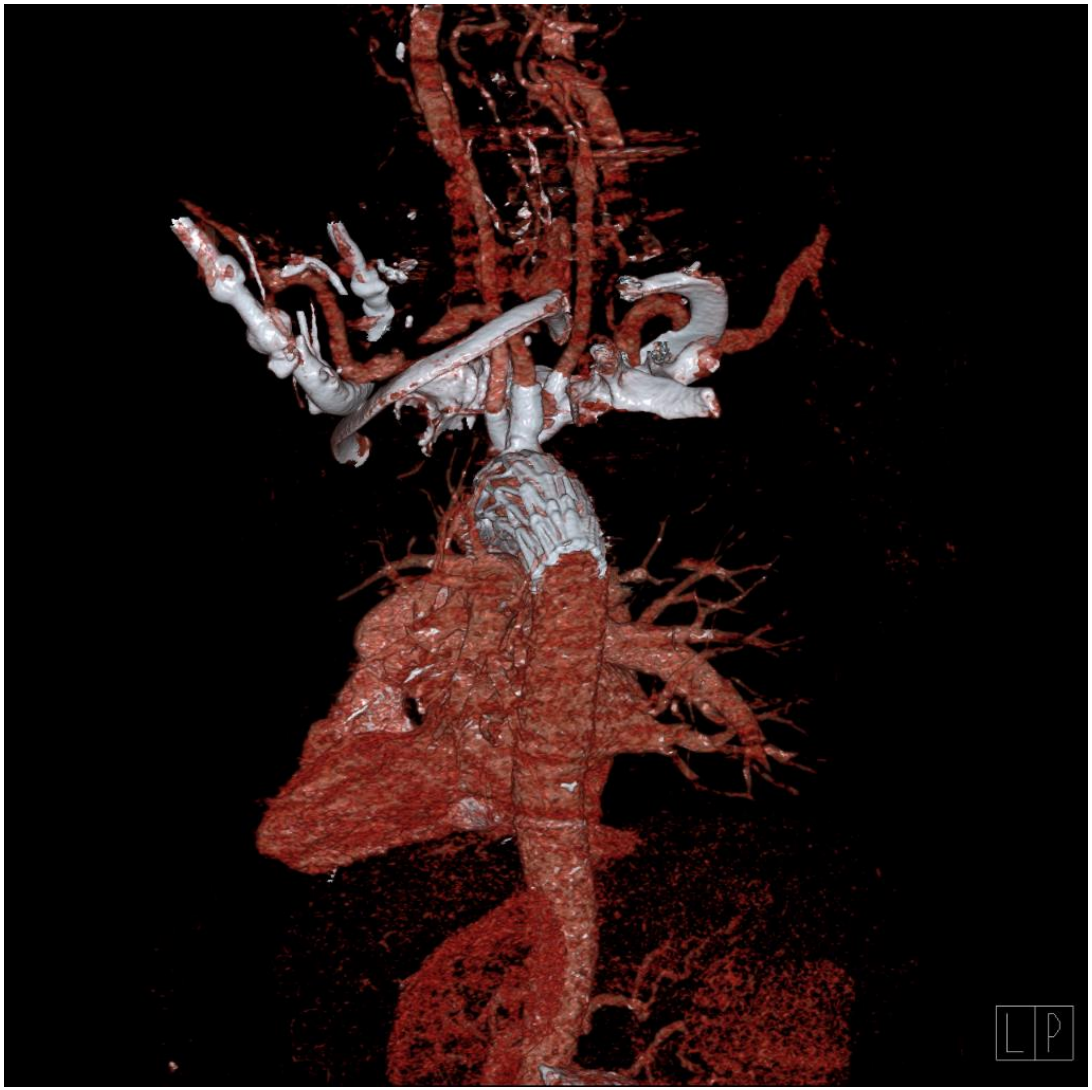
- PTA of bridging stents
- Kissing optional
  - Mostly distal landing zone

Navigation tools (contours)




Close
clinical

Result @ 2 months FUP (June2014)

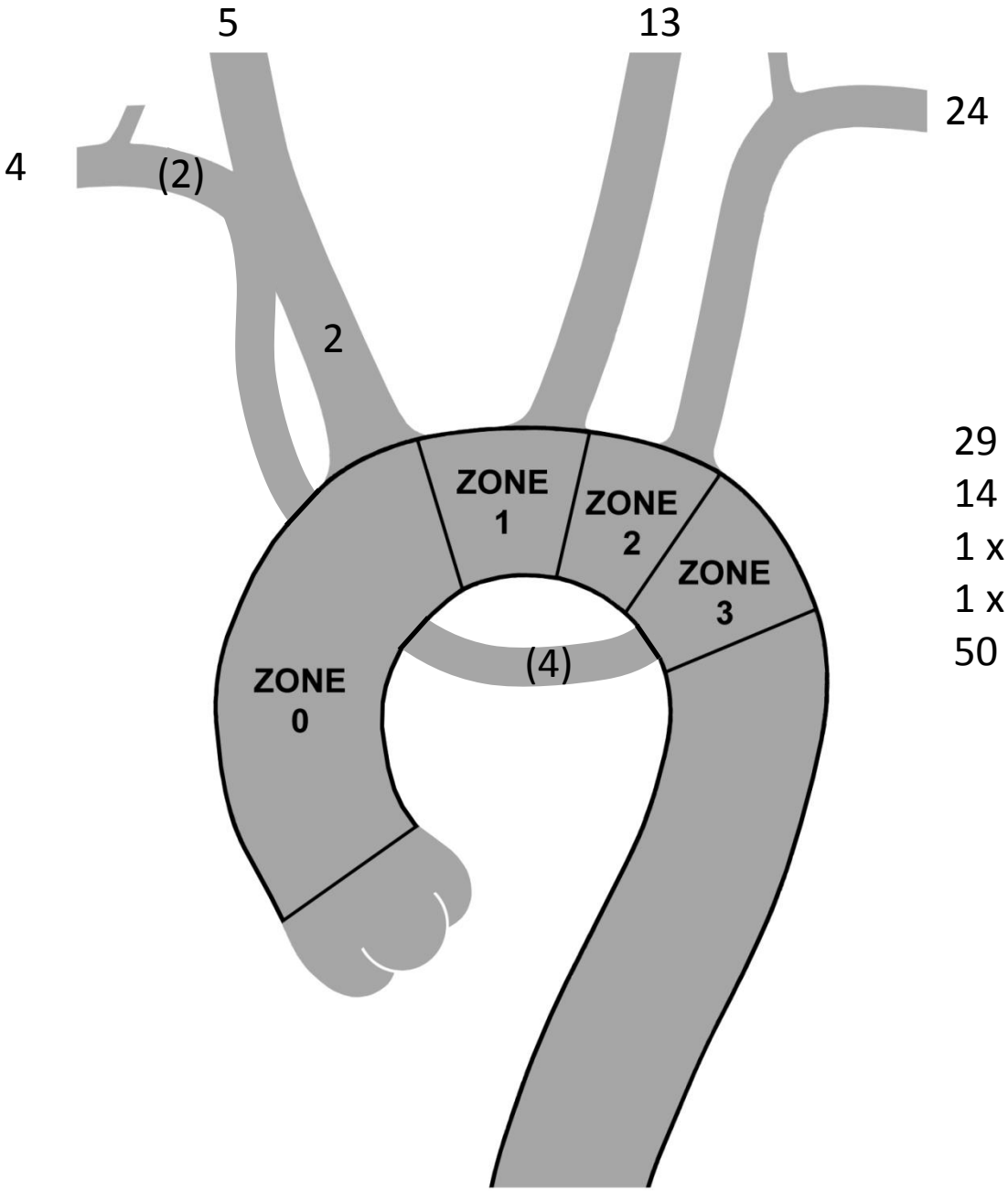



Results
«30-day»

ARCH – PG EVAR (CHIMPS)

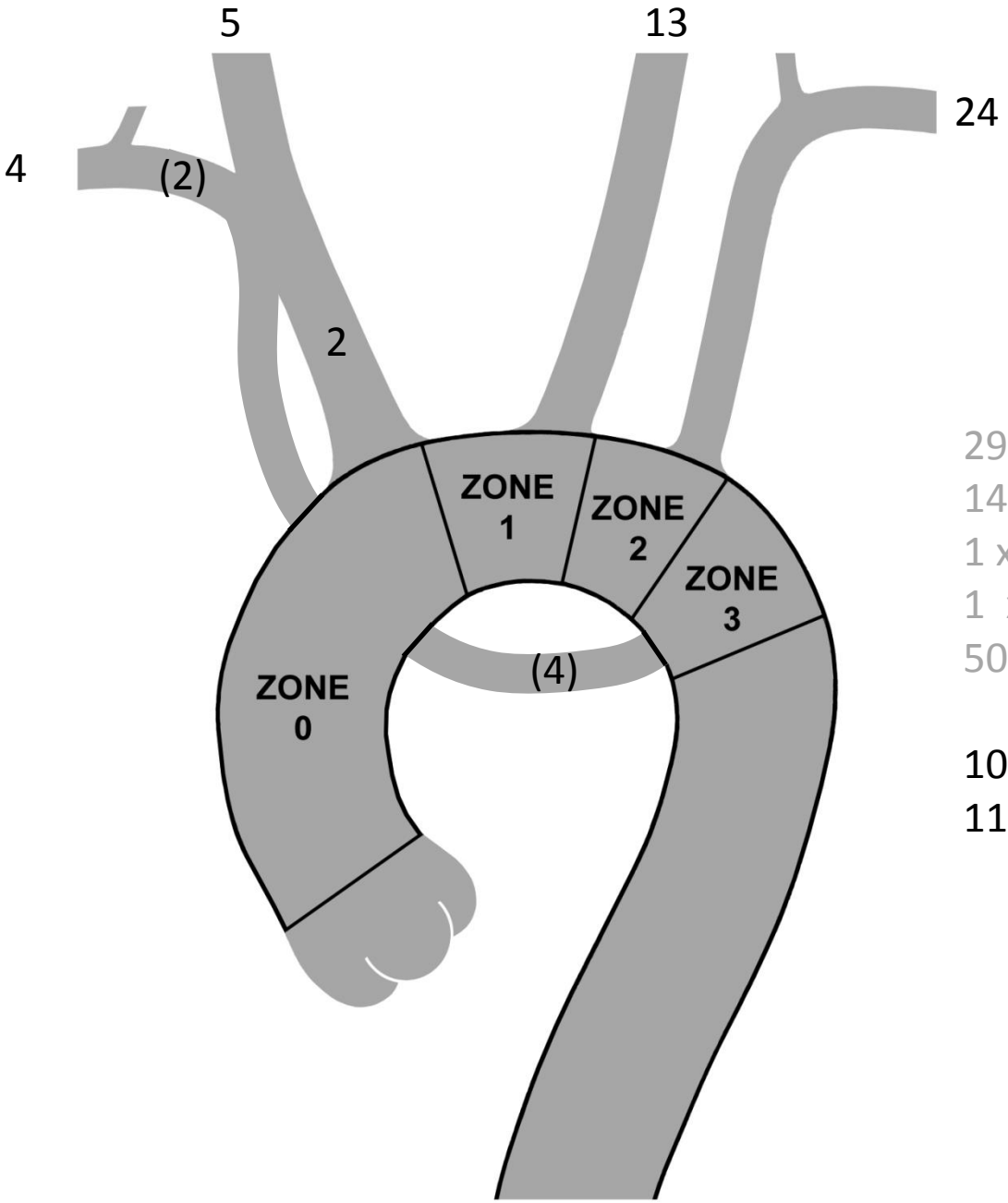
	Zone 0	Zone 1	Zone 2			
N of pts landing in	18	7	14			
	TBC	**RSA**	**RCCA**	**LCCA**	**LSA**	**LUSORIA**
1CPG	1	0	1	3	23	1
CG	1	0	1	0	9	1
PG	0	0	0	3	14	0
2CPG	1	0	2	8	3	1
CG	1	0	1	7	0	0
PG	0	0	1	1	3	1
3CPG	0	1	1	1	0	0
CG	0	1	1	1	0	0
PG	0	0	0	0	0	0
4CPG	0	1	1	1	1	0
CG	0	1	1	1	0	0
PG	0	0	0	0	1	0
BYPASS	8	2	6	12	4	0

PG-EVAR ARCH



29 x 1 CPG
14 x 2 CPG
1 x 3 CPG
1 x 4 CPG
50 PG (25 Periscopes)

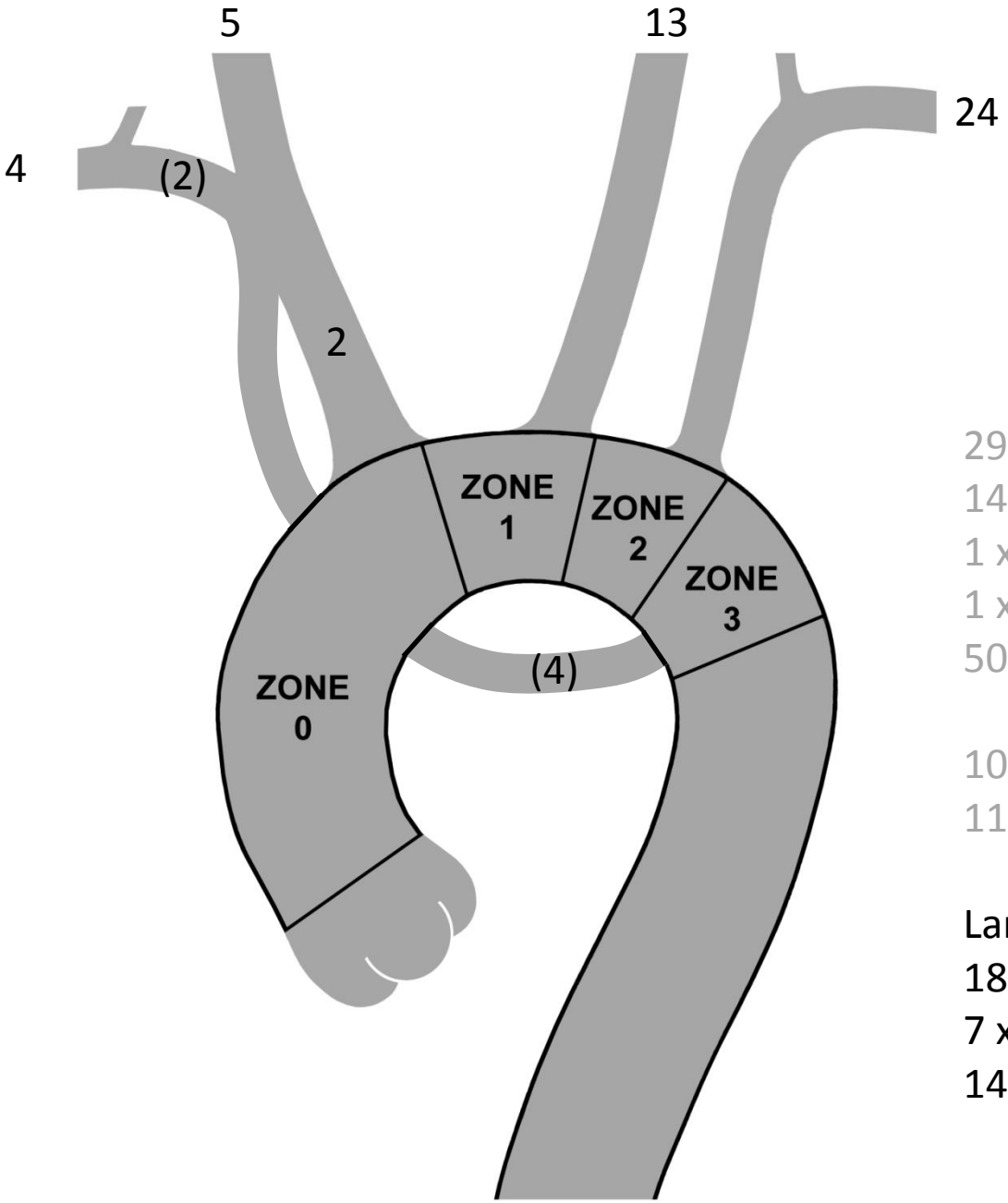
PG-EVAR ARCH



29 x 1 CPG
14 x 2 CPG
1 x 3 CPG
1 x 4 CPG
50 PG (25 Periscopes)

10x HR with debranching
11x CA Bypass

PG-EVAR ARCH

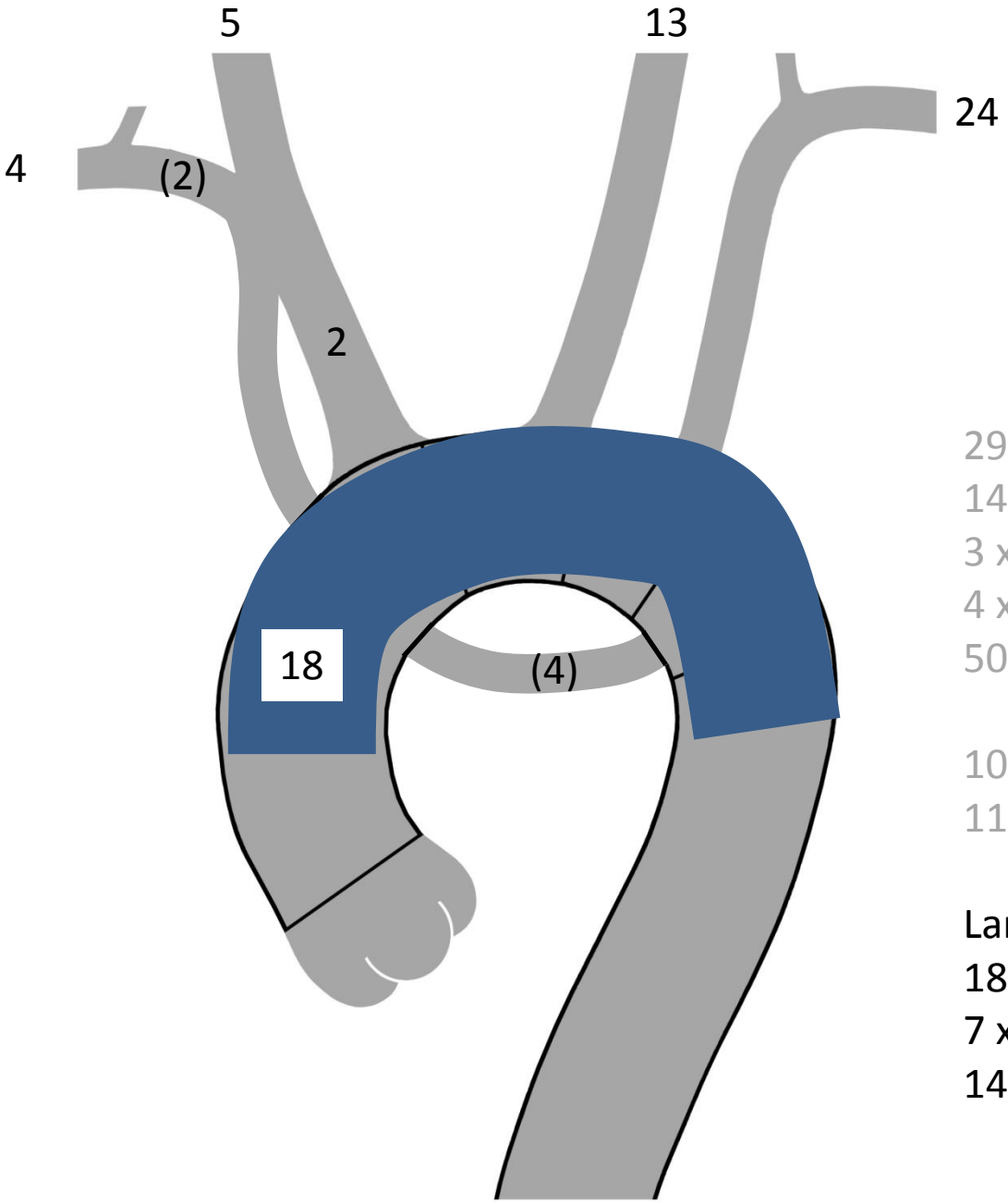


29 x 1 CPG
14 x 2 CPG
1 x 3 CPG
1 x 4 CPG
50 PG (25 Periscopes)

10x HR with debranching
11x CA Bypass

Landing zone
18 x Z0
7 x Z1
14 x Z2

PG-EVAR ARCH

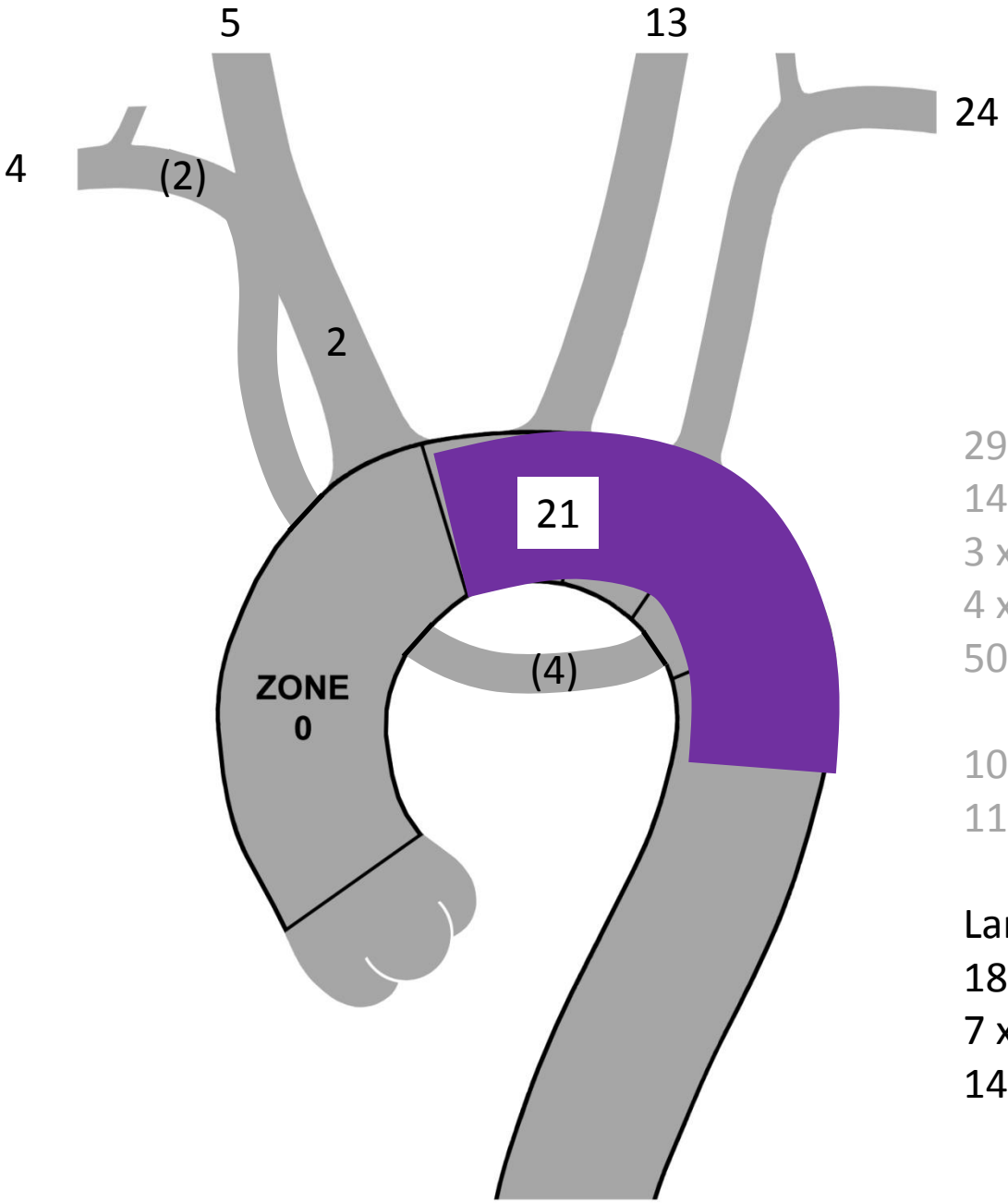


29 x 1 CPG
14 x 2 CPG
3 x CPG
4 x 4 CPG
50 PG (25 Periscopes)

10x HR with debranching
11x CA Bypass

Landing zone
18 x Z0
7 x Z1
14 x Z2

CHIMPS ARCH

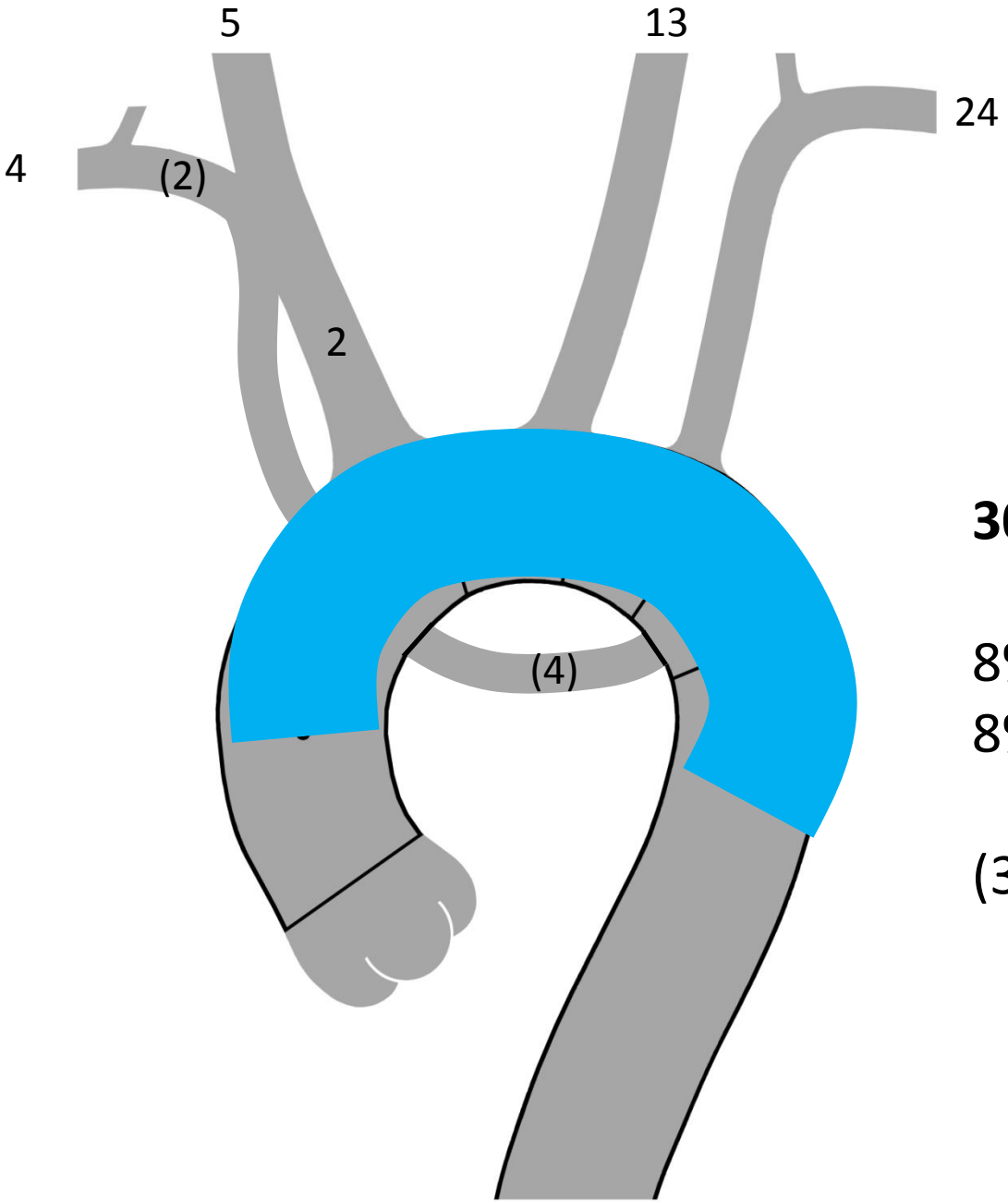


29 x 1 CPG
14 x 2 CPG
3 x CPG
4 x 4 CPG
50 PG (25 Periscopes)

10x HR with debranching
11x CA Bypass

Landing zone
18 x Z0
7 x Z1
14 x Z2

CHIMPS ARCH



30-day results

8% mortality rate (4/50)
8% stroke (4/50; 1 lethal)

(33% nonelective)

Limitations

- Diseased arch and branches