



International Consortium of Vascular Registries

Impact of center volume on
outcome of CEA and CAS in
symptomatic and asymptomatic
patients using Vascunet +VQI data

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Catheter Cardiovasc Interv. 2017 Jun 1;89(7):1242-1249. doi: 10.1002/ccd.26989. Epub 2017 Mar 15.

Impact of hospital volume on long-term neurological outcome in patients undergoing carotid artery stenting.

Hung CS¹, Yeh CF¹, Lin MS¹, Chen YH¹, Huang CC¹, Li HY¹, Kao HL¹.

J Vasc Surg. 2013 Sep;58(3):666-72. doi: 10.1016/j.jvs.2013.02.016. Epub 2013 Apr 16.

The effect of surgeon's specialty and volume on the perioperative outcome of carotid endarterectomy.

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Systematic review of carotid artery procedures and the volume-outcome relationship in Europe.

Phillips P^{1,2}, Poku E¹, Essat M¹, Woods HB¹, Goka EA¹, Kaltenthaler EC¹, Shackley P¹, Walters S¹, Michaels JA¹.

What carotid data we have

- Last data collection includes years 2010-2013
- 59 000 patients
- Vascunet data includes outcome (stroke, death)
- VQI data at the moment does not but could be available?

country	N center	Median	Q1	Q3	Min	Max
CEA						
AUS	120	10,25	4,8	19,8	1,0	72,3
DK	8	48,13	40,6	59,8	35,5	85,0
Finland	3	27,50	18,5	187,5	18,5	187,5
Hungary	26	36,13	15,0	54,5	1,0	362,5
Iceland	1	19,50	19,5	19,5	19,5	19,5
NORWAY	1	257,50	257,5	257,5	257,5	257,5
New Zealar	16	19,25	3,5	34,4	1,0	90,5
Switzerlanc	21	24,50	11,5	36,3	3,0	50,8
USA	179	38,50	21,5	78,0	1,0	276,5
sweden	24	32,63	22,3	44,4	8,5	105,0

country	N center	Median	Q1	Q3	Min	Max
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Carotid Stenting

AUS	64	2,33	1,0	5,8	1,0	16,5
Finland	1	2,00	2,0	2,0	2,0	2,0
Hungary	8	5,63	1,1	13,5	1,0	71,8
NORWAY	1	1,50	1,5	1,5	1,5	1,5
Switzerland	3	1,00	1,0	9,0	1,0	9,0
USA	131	8,00	3,0	16,5	1,0	76,5
sweden	6	7,38	2,8	12,0	2,0	19,0

Questions for discussion

- Shall we use data 2010-2013?
 - Data is available immediately (requiring VQI provides the outcome data)
- New data collection planned next year (2014-2017)
- How we will and should we ensure somehow the data validity
 - Deaths: cause of death registry
 - Stroke: impossible?