



CAROTID ENDARTERECTOMY WITHOUT SHUNT:

1.200 cases Experince in Thongnhat hospital

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Backgrounds

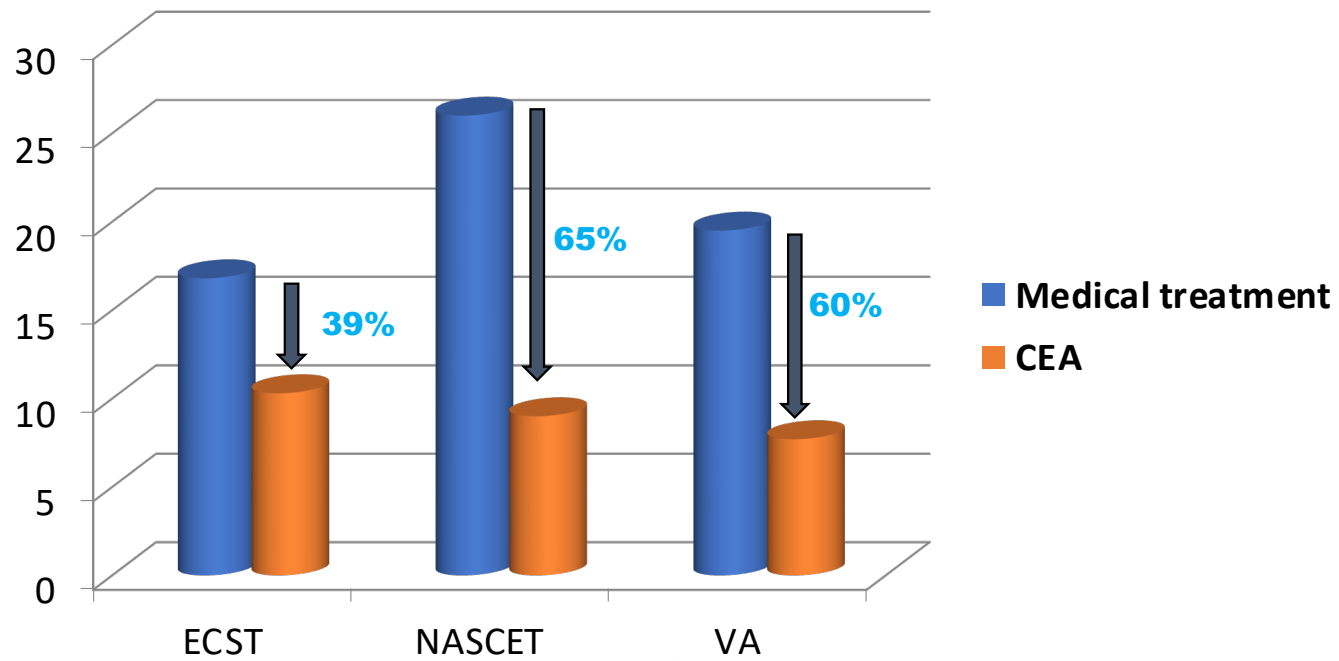
- Stroke is the 3rd leading cause of death.
- It is the 1st cause of long-term disability.
- In US 700 000 stroke per years.
- EU 1.4 M stroke, 1.1 M died because stroke.
- In Vietnam, the incidence of new stroke is 1.61 % per year, and increasing.



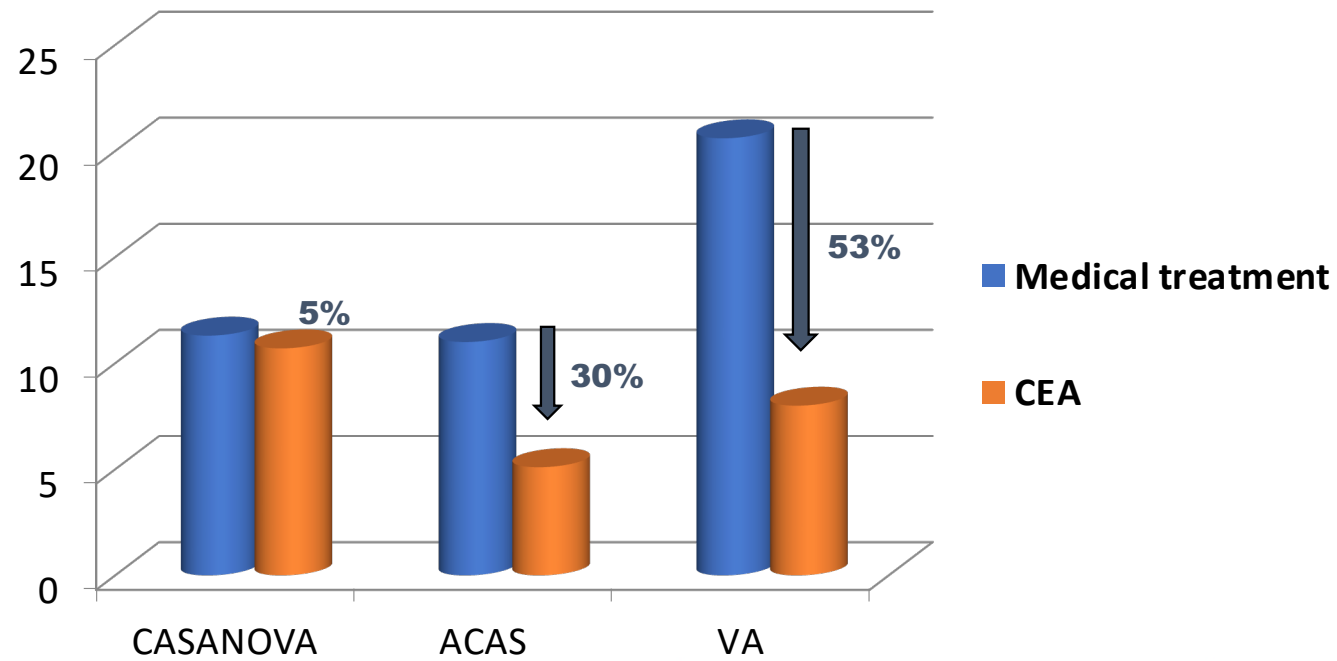
Backgrounds



Symptomatic carotid stenosis



Asymptomatic carotid stenosis





Aims

- The early and long-term results of Carotid endarterectomy without shunt.





Methods

- **Materials:**

- All of the patients with carotid stenosis who were operated in Thongnhat hospital between 01/2008 – 01/2023

- **Prospective study:**

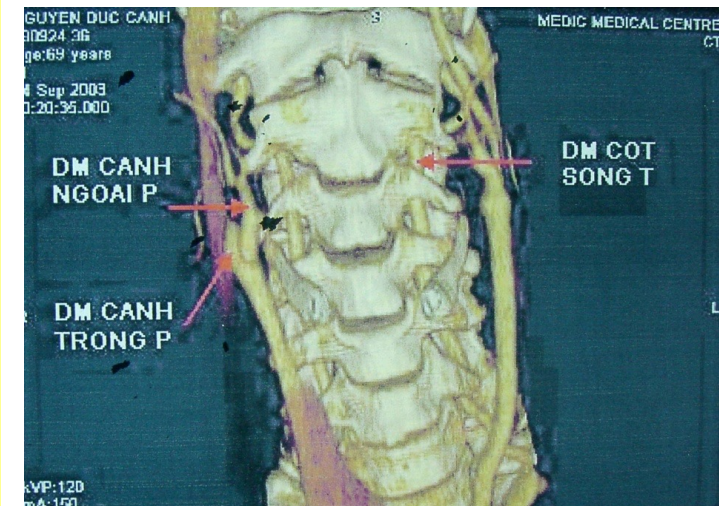
- Primary outcomes: mortality, stroke, restenosis.



Methods

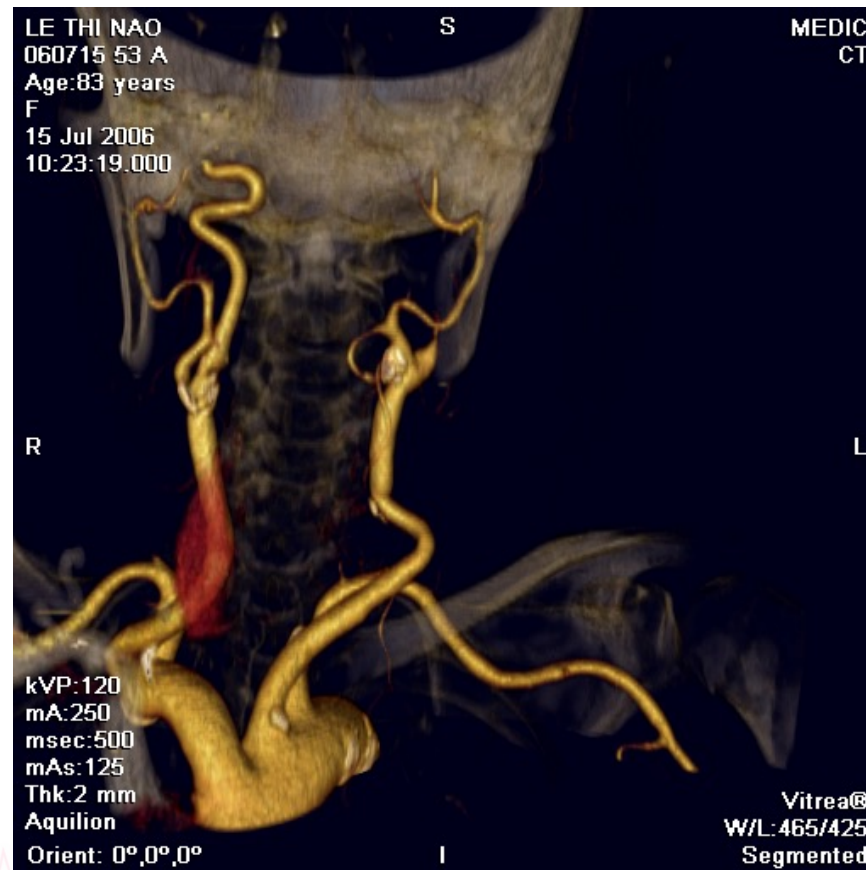
Diagnosis

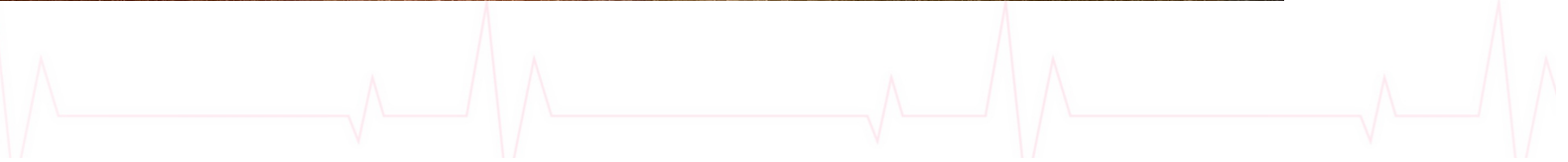
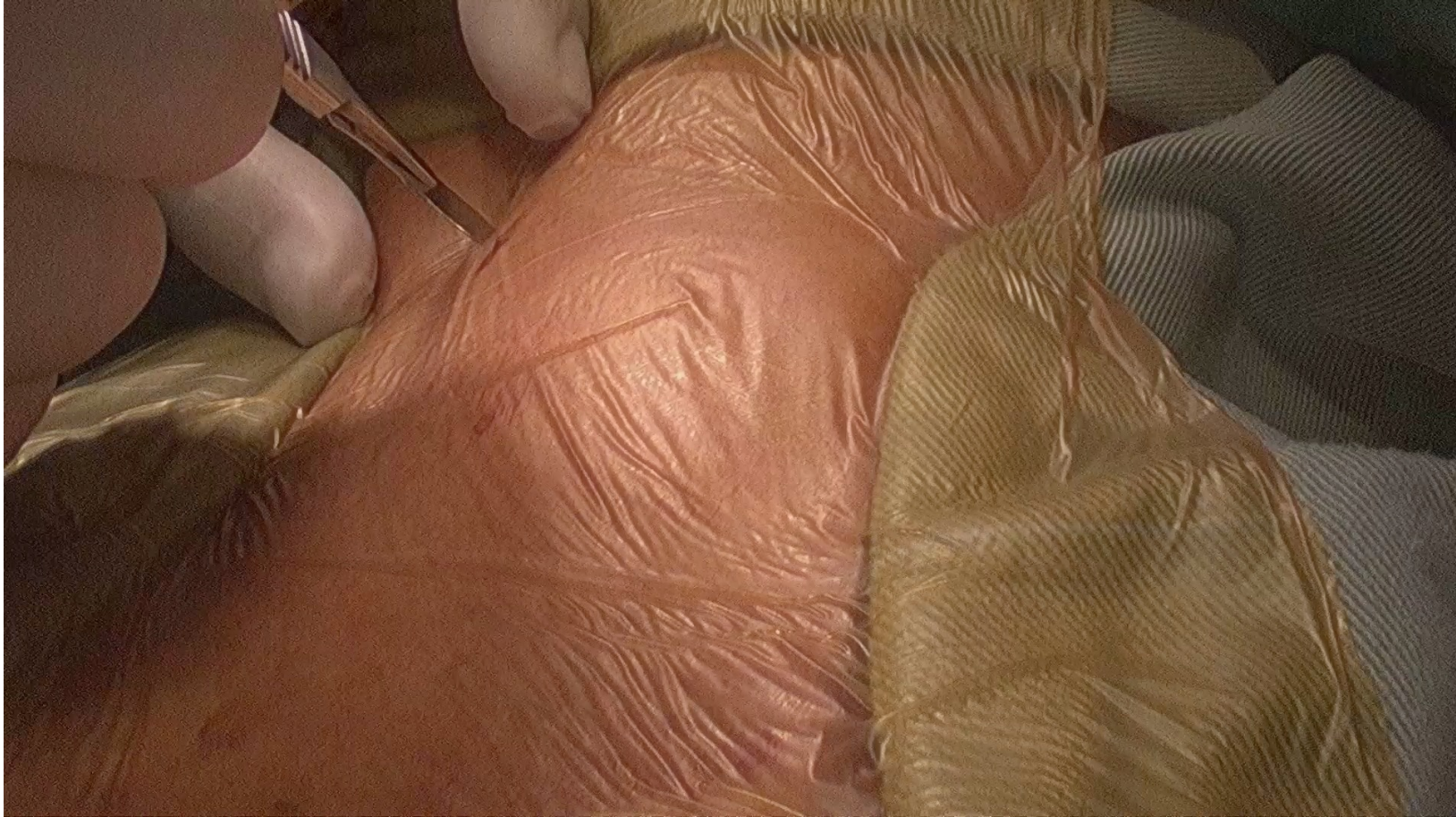
- **Clinical:**
 - Stroke
 - TIA
 - Cervical bruit.
- **Imaging study:**
 - Duplex
 - MSCT, MRA
 - DSA
- **Operative evaluation.**

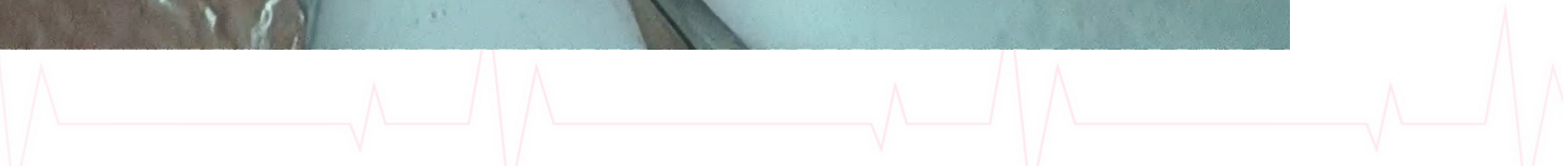
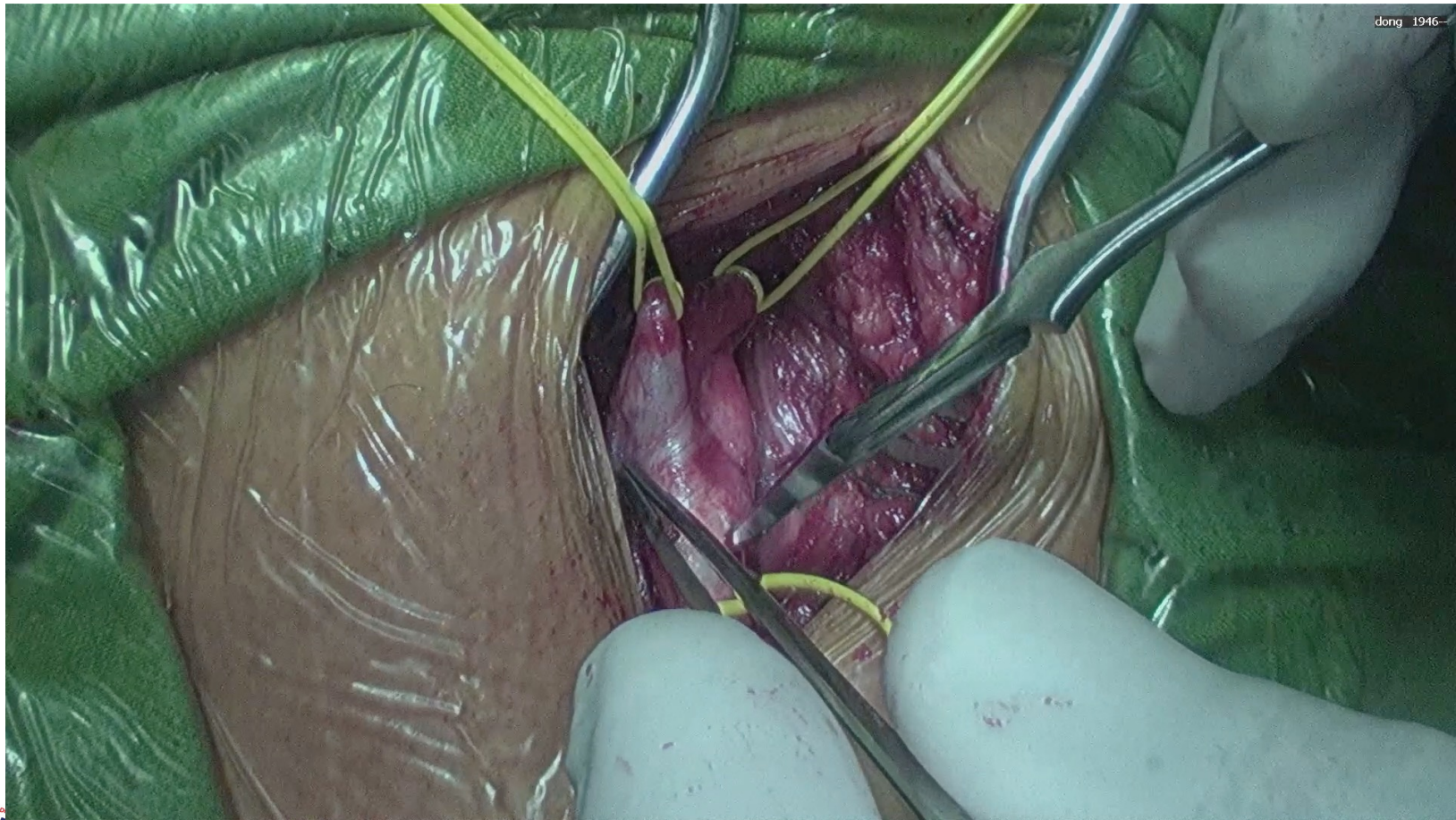


Method

CTA

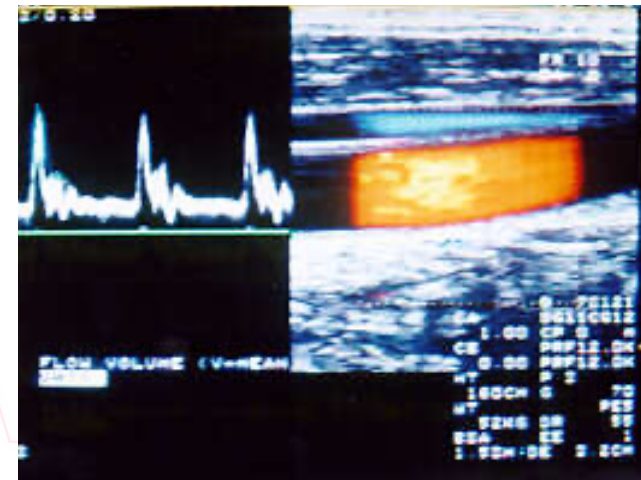






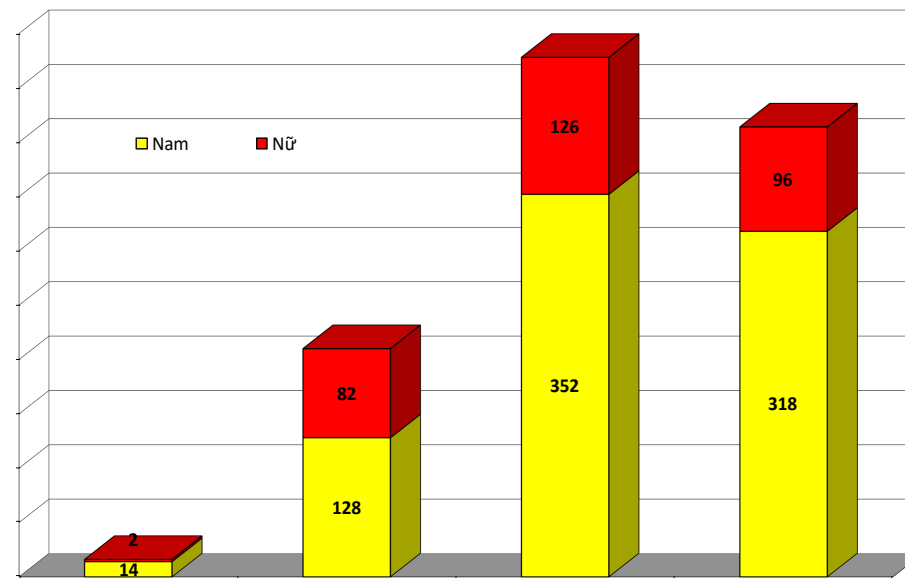
Evaluation results

- **Early results**
 - Improve the symptom Duplex.
 - Mortality rates, causes of death.
 - Complications
- **Long-term results: 1, 3, 6, every 12 m.**
 - Restenosis.
 - Stroke.
 - Death.



Results

Age and gender



- Mean age: $72.4 \pm 10,3$ (49 – 92)
- Male : 812 Female: 306



Characteristics

	<i>No</i>	<i>%</i>
Previous stroke	628	54.3
Recent stroke	112	9.3
TIA	252	21.0
Arterial hypertension	852	76.2
DM	362	30.2
CAD	106	8.8
PAD	389	32.4

Results

Severity

<i>Severity</i>	<i>No</i>	<i>%</i>
50 - 79	62	5.2
80 - 99 %	1086	90.5
100%	52	4.3
Bilateral stenosis	224	18.7



Results

Operation

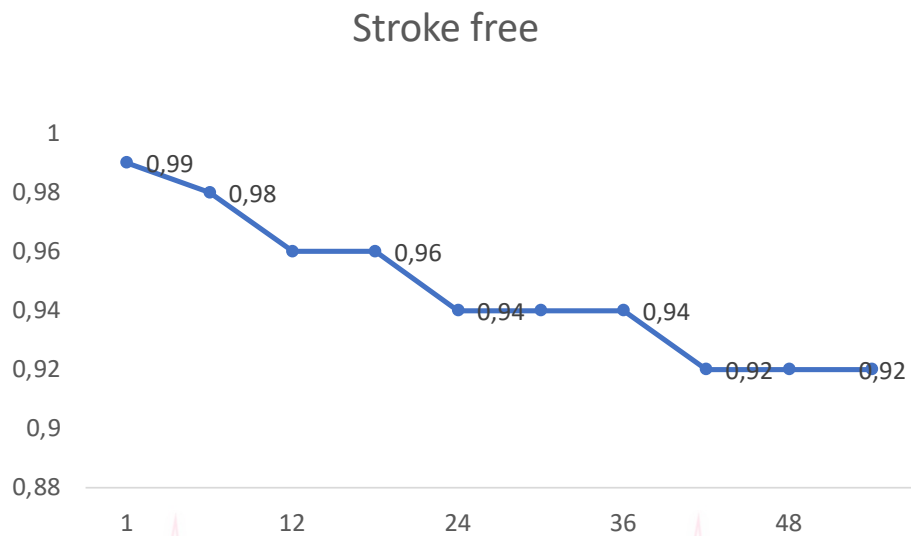
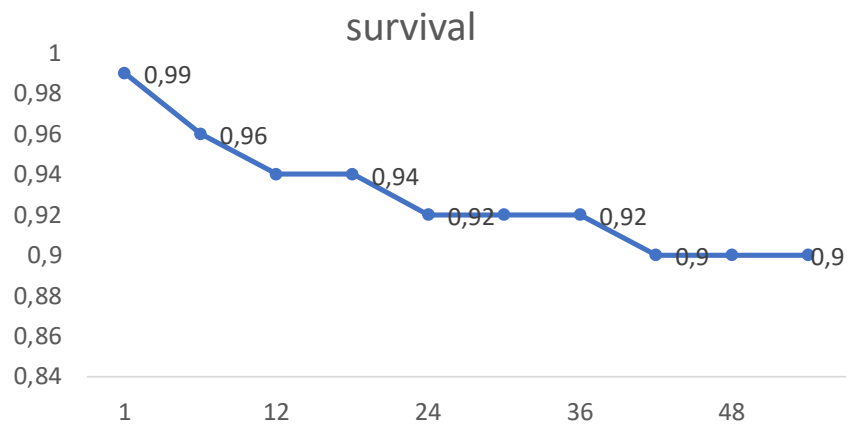
<i>methods</i>	<i>No</i>	<i>%</i>
Eversion endarterectomy	258	21.5
Patch closure	938	78.2
Prothesis graft	4	0.3



Outcome of primary events

	N (%)
Mortality	3 (0.25)
Stroke (in 30 days)	6 (0.5)
Brain hemorrhage	1 (0.08)
Incision hematoma	3 (0.25)
Pneumonia	2 (0.16)







Conclusions

- **Carotid endarterectomy without shunt is effective and safe.**
- **30 day mortality and morbidity is very low.**
- **Restenosis and stroke rate is very low.**



