



VEITH SYMPOSIUM 2024

NEW TECHNICAL TIPS TO MAKE MINIMAL INCISION GEA (MICE) EASIER AND BETTER: CAN SAME DAY DISCHARGE BE SAFE



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DISCLOSURE

Speaker name:

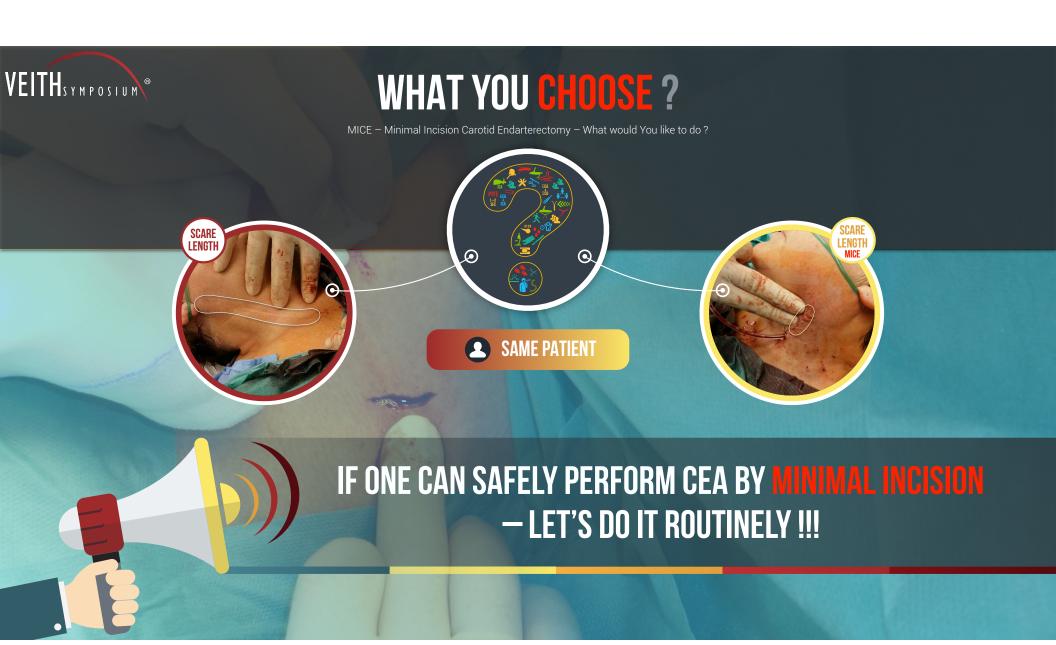
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I have the following potential conflicts of interest to report:

- * Consulting
- * Employment in industry
- * Shareholder in a healthcare company
- * Owner of a healthcare company
- * Other(s)
- X I do not have any potential conflict of interest

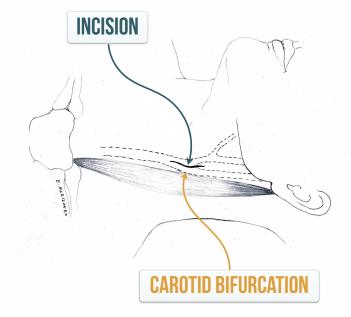


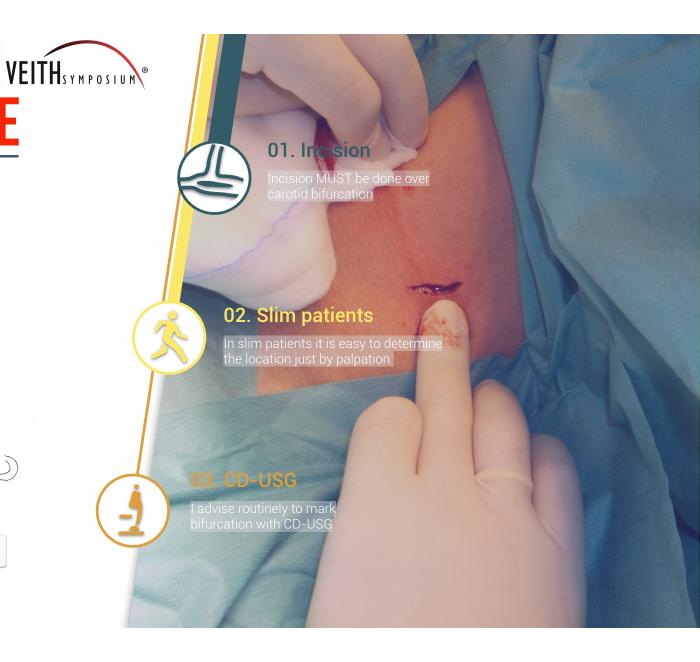


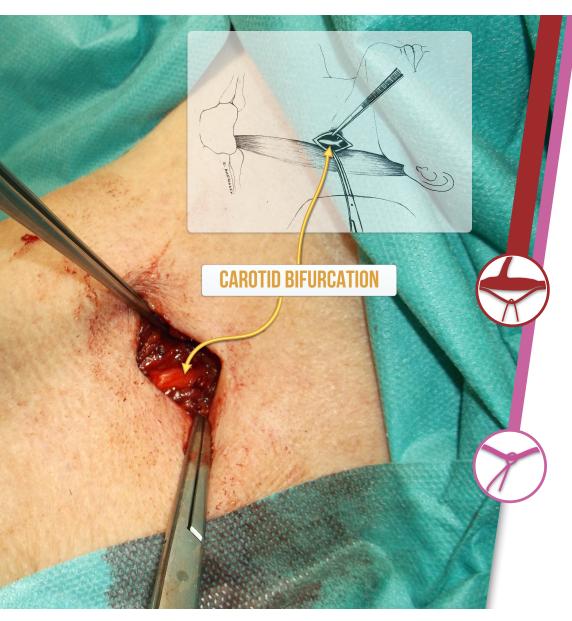




MICE – Minimal Incision Carotid Endarterectomy Important aspects of the operation's technique











04. Reaching the Artery

Reaching the artery by tissue separation along the border of SternoCleidoMastoid muscle

05. Vessel Loop

Once the artery is visualized apply the vessel loop on the ECA and Thyroid artery

OPERATION TECHNIQUE



Important aspects of the operation's technique

06. ECA and CCA Vessel Loop

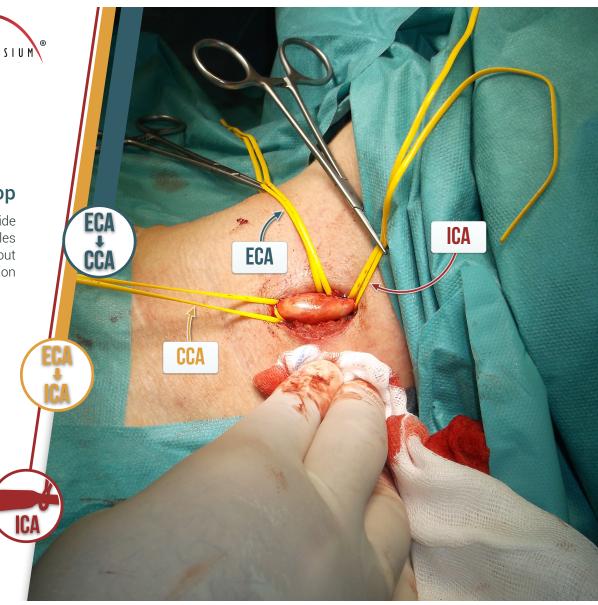
Pulling the ECA vessel loop up and to the opposite side (45° angle) and releasing posterior part of bifurcation enables visualization and applying a vessel loop on the CCA about 15mm down the bifurcation

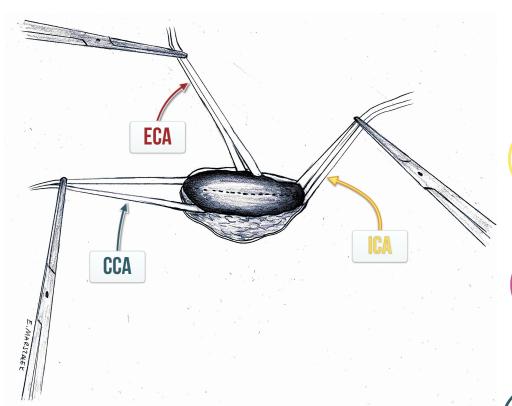
07. Anterior and Posterior Portion of ICA

Pulling the ECA vessel loop down and to the opposite side (30° angle) reveals anterior and posterior portion of ICA

08. ICA Above Atherosclerotic Plaque

The vessel loop on ICA MUST be located above atherosclerotic plaque









09. Clamp ICA for 30 seconds

Temporary clamping of ICA for 30 seconds should show if the shunt is needed

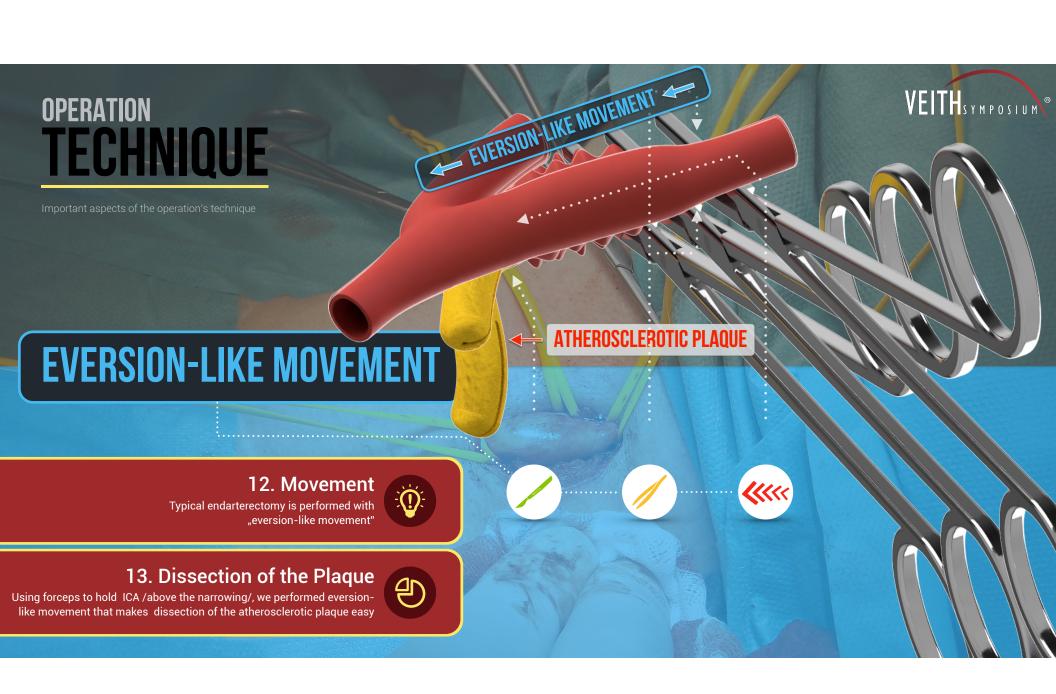
10. Continue Pulling if OK

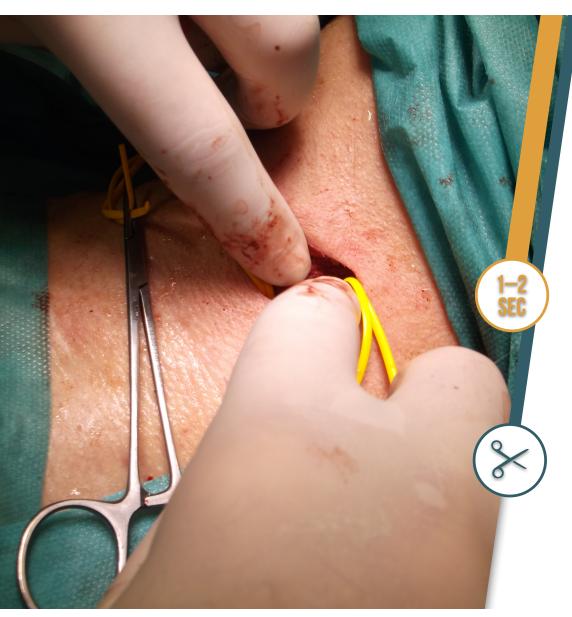
If there is no neurological signs we continue pulling all vessel loops to elevate the artery to the level of the skin

11. Direction of Incision

Typically, longitudinal incision from CCA to the ICA is performed











14. Back Flow 1-2 Seconds

ALWAYS allow 1-2 seconds back flow from ICA to remove potential debris by the blood flow

15. Unclamp CCA short

Unclamp CCA for a short period of time to remove potential debris from the proximal part

OPERATION TECHNIQUE

Important aspects of the operation's technique

16. Shunt

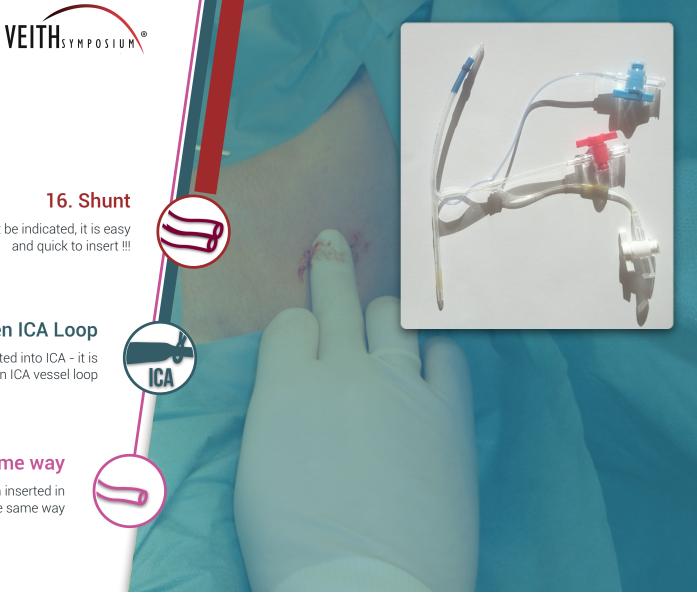
Should a shunt be indicated, it is easy and quick to insert !!!

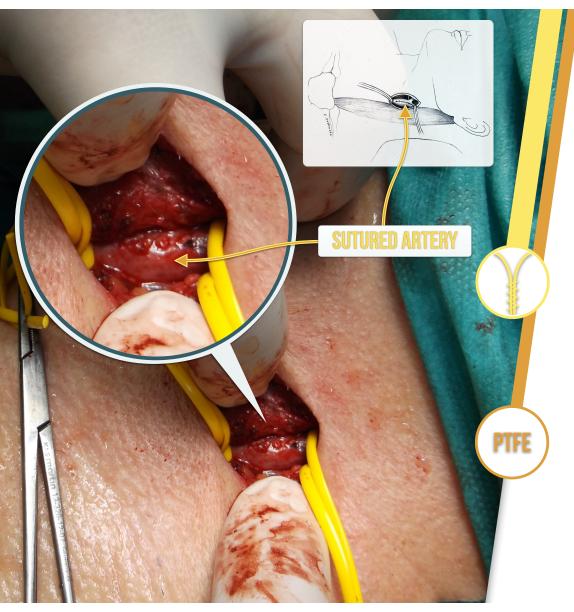
17. Loosen ICA Loop

As a first step the shunt is inserted into ICA - it is necessary to slightly loosen ICA vessel loop

18. Same way

The shunt into CCA is than inserted in the same way









19. Suture

Continues suture /5.0 or 6.0/ is used to close the arteriotomy

20. Artificial Patch Possible

If the ICA diameter is below 2 mm, artificial /PTFE/ patch can easily be used

OPERATION TECHNIQUE

Important aspects of the operation's technique

21. Redon Drainage

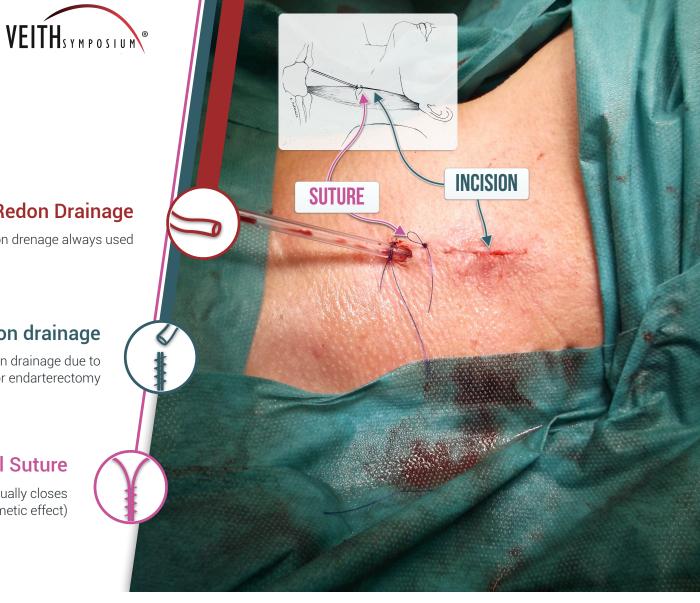
Redon drenage always used

22. Incision for Redon drainage

Another incision for Redon drainage due to small incision for endarterectomy

23. Intradermal Suture

Intradermal suture usually closes the wound (good cosmetic effect)





STEP BY STEP

MICE – Minimal Incision Carotid Endarterectomy















MICE – Minimal Incision Carotid Endarterectomy , 165 consecutive patients





122 Patients

Minimal Incision Carotid Endarterectomy /MICE/



43 Patients

Classic Endarterectomy /CE/



VEITH SYMPOSIUM®

122: MICE 43: CE



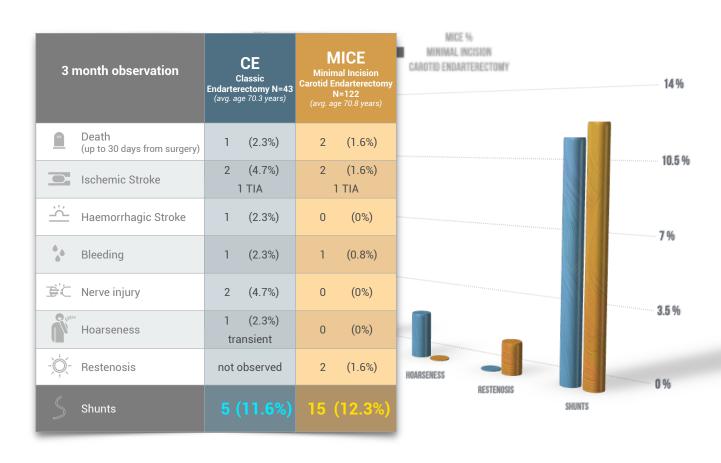
Patients randomly allocated

Patients were randomly allocated to each group. Surgical method depended of the operator - 3 surgeons in group MICE, 2 surgeons in group CE



RESULTS

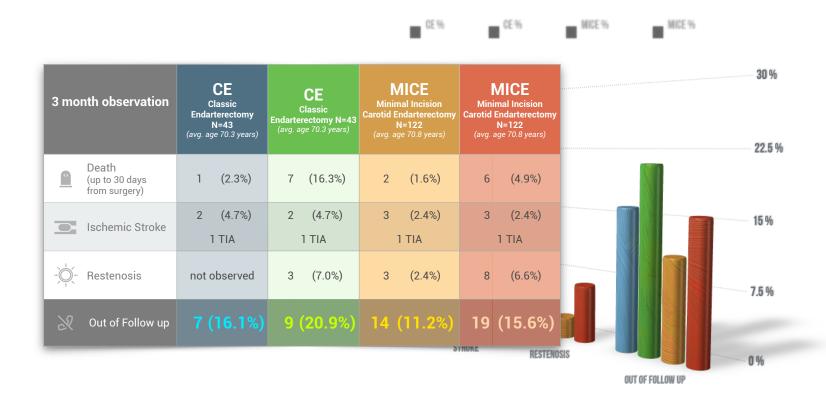
MICE – Minimal Incision Carotid Endarterectomy – data collected during 20 month of experience





RESULTS

MICE – Minimal Incision Carotid Endarterectomy – data collected during 20 month of experience





SOME EXAMPLES 1

MICE - Minimal Incision Carotid Endarterectomy - automatic retractor not routinely used









Small Wound
Low possibility to damage neck
anatomical structures

Safe Operation
The aim is safe operation, small incision – additional advantage

03

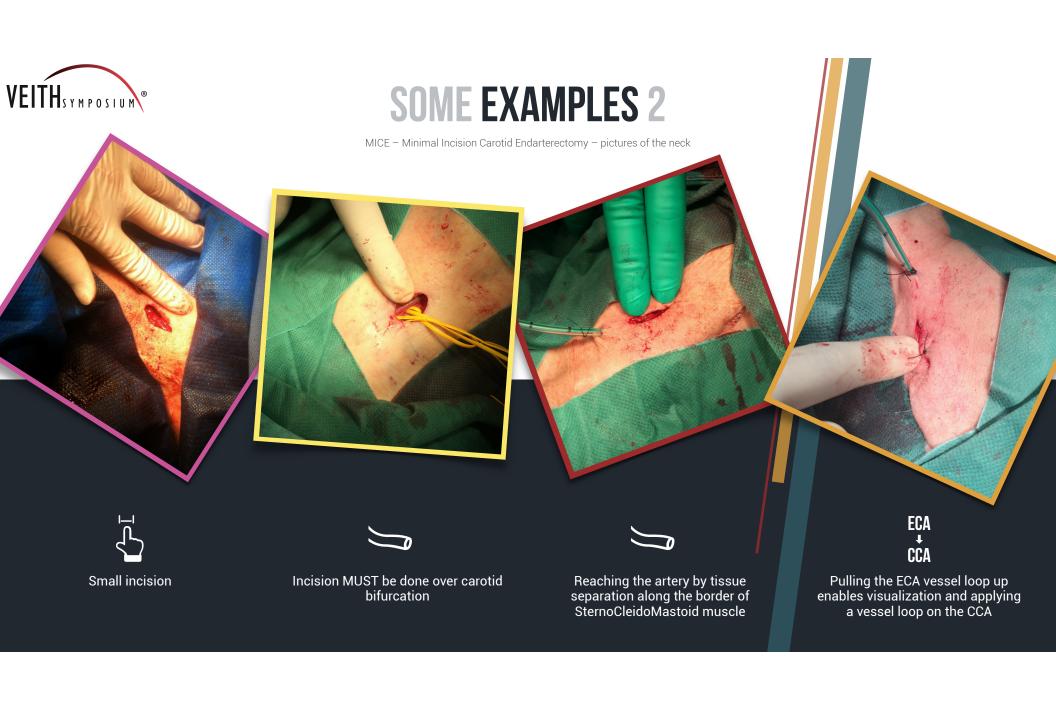
Quick Recovery of the Patien

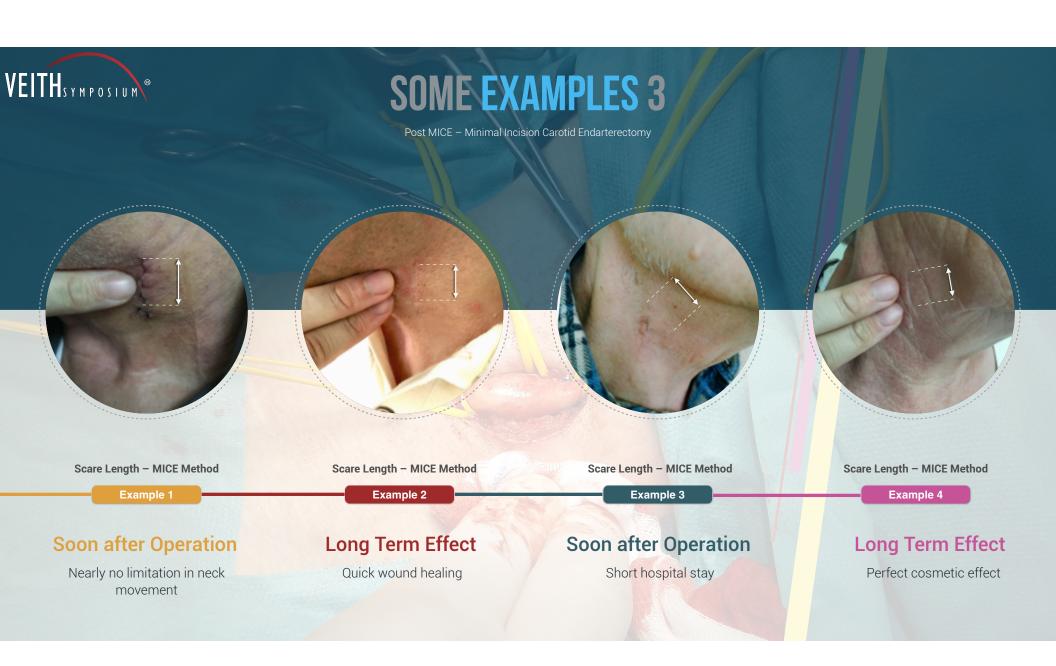
On the next day post surgery patient can be safely discharged from the hospital

04

Easy to Reoperate

Small scare gives the benefit if reoperation is needed







CONCLUSION

Conclusions after treating first series of patients with MICE - Minimal Incision Carotid Endarterectomy



MICE – less Ischemic stroke, less haemorrhagic stroke, less bleeding, less nerve injury, less hoarseness, lower risk, greater patient's comfort, better, more innovative approach.



LOW RISK OF MICE

Minimal Incision Carotid Endarterectomy is a safe procedure, with a small risk of complications.



QUICK RECOVERY AFTER SURGERY

Minimal incision reduces level of patients' discomfort and aids quick recovery after surgery



PRECAUTIONS AND CONTRAINDICATIONS

Patients discharged safely same day (asymptomatic, normotension) (no complication in this group)



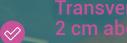
FURTHER STUDY REQUIRED

Further study are needed to assess safety of discharge on the day of the operation

OTHER MINIMAL INCISIONS







Rectus abdominis not cut

End to Side Anastomosis

Remote movement of the leg of prosthesis

3 cm Incision on the Medial Side of the Leg

Automatic retractor to broaden the access to the artery

Hook-Like Manover to Elevate Popliteal Artery

Easy to do end-to-side anastomosis





THANK YOU FOR YOUR TIME

Presented technique and data soon to be published

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Many thanks to my colleagues especially: S. Mazur, Ewa Marszałek, Ilona Kabelis