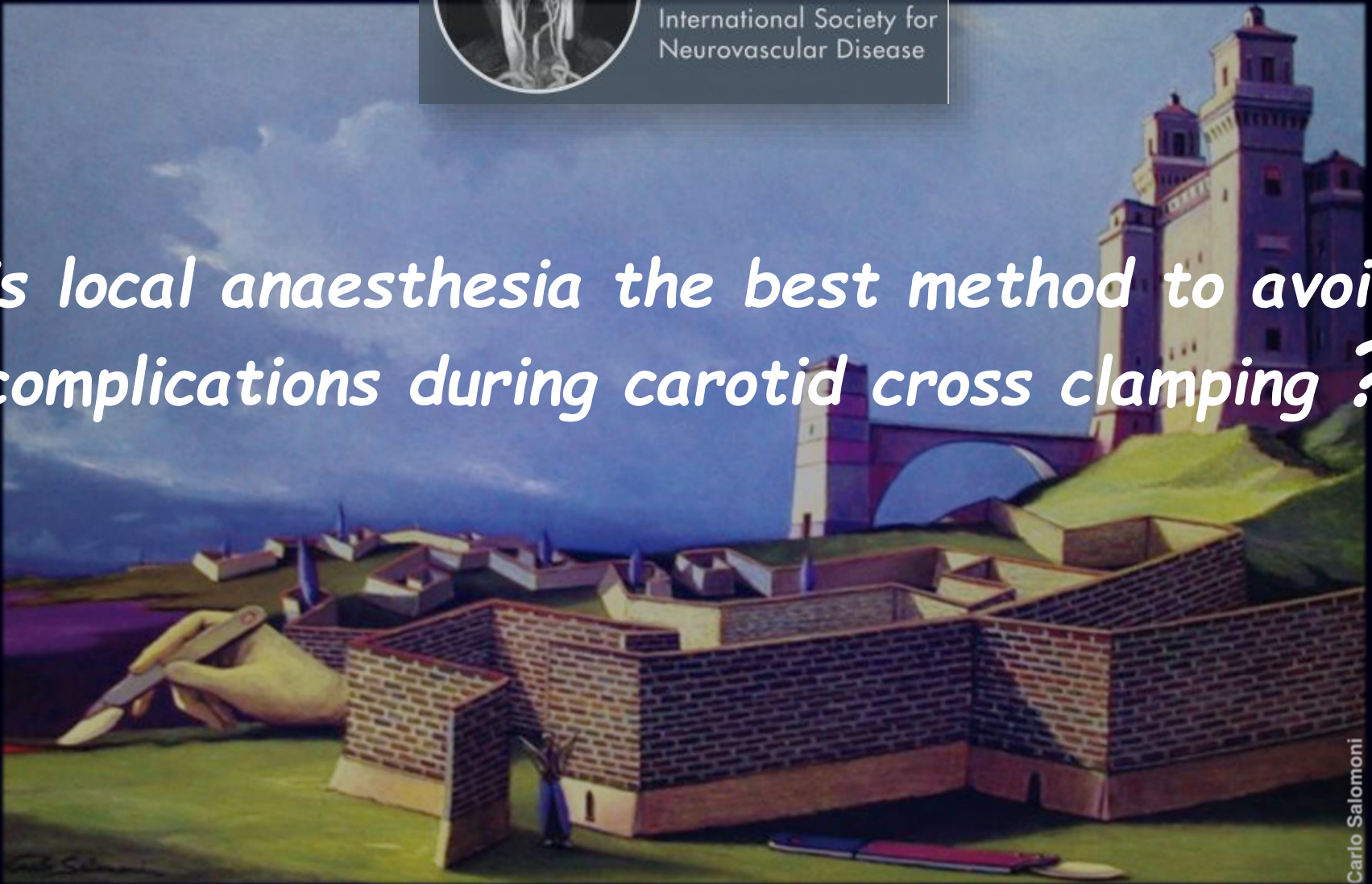


ISNVD
International Society for
Neurovascular Disease

Is local anaesthesia the best method to avoid complications during carotid cross clamping ?

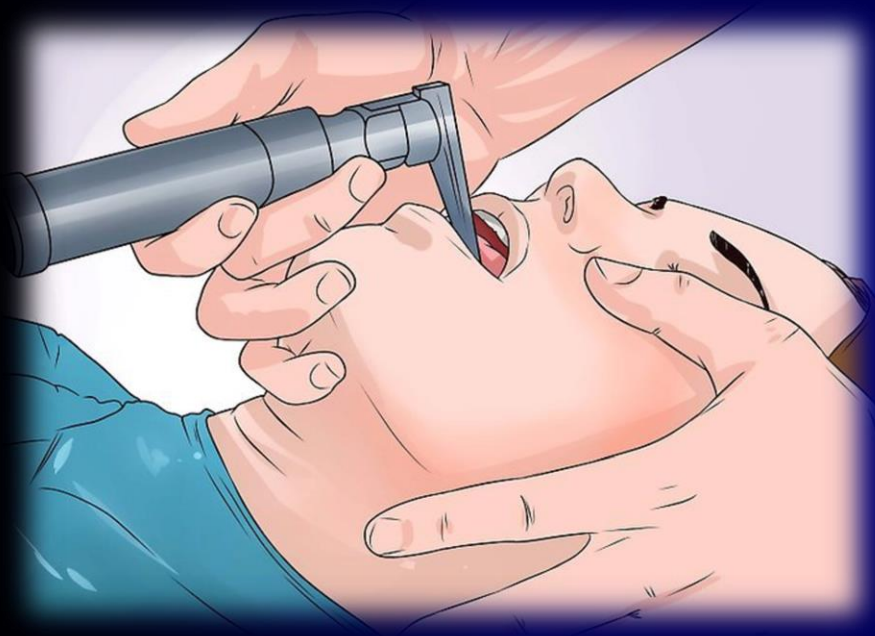


Carlo Salomoni

F.G Mascoli M.D. Ferrara Italy



My (personal) answer is: NO !



(I mean of course: not for me)



The debate on GA vs LA in carotid surgery is still ongoing since 1964 without indisputable answer

Patelis N, Diakomi M, Maskanakis A, Maltezos K, Schizas D, Papaioannou M.; General versus local anesthesia for carotid endarterectomy: Special considerations.

Dec. 2018

General anaesthesia versus local anaesthesia for carotid surgery (GALA): a multicentre, randomised controlled trial
Nov. 2008

Local versus general anaesthesia for carotid endarterectomy
Dec. 2013

General or local anaesthesia for carotid endarterectomy?
Apr. 2012

Anesthesia type determines risk of cerebral infarction after carotid endarterectomy
In Press. 2019

Saudi Journal of
Anesthesia

THE LANCET

 **Cochrane**



JVS Journal of
Vascular Surgery
Official Publication of the Society for Vascular Surgery



All those papers gave the same answer:



Why don't I love L.A. ?

High nervous voltage in O.R.



- The patient: WHEN CAN I TRY ?
- The anaesthetist: WHEN CAN I TRY ?
- The nurse: WHEN CAN I TRY ?
- The head nurse manager: THE NEXT PATIENT ?
- The trainee: WHEN CAN I TRY ?
- Less easy tutorial activity



*The real question is the same since many years
to shunt or not to shunt ?
this is the question*



Clamping Ischemia ?



....but is it really a problem ???

what is the problem that happens ?

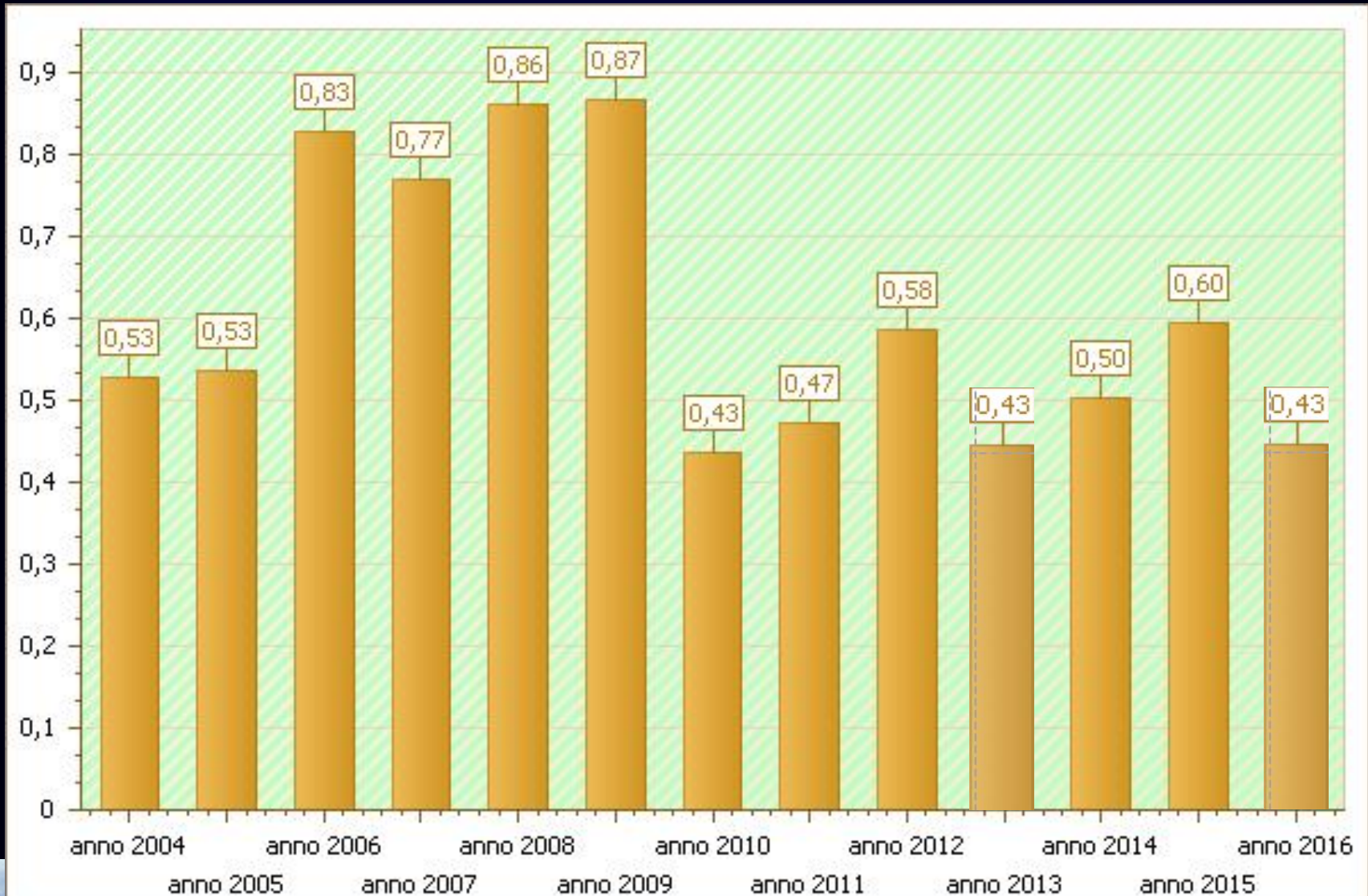
Shunt !

Shunt Carotideo
Pruitt-Inahara

I routinely use the Inahara-Pruitt shunt since 1996 in more than 4000 pts. without ever having had a single complication due to it



Performance Indicators



What is really essential

- Excellent anesthesiological competence & skillness
- Frank & sincere relationship with the patient
- State of art surgical team & facilities
- Impeccable & meticulous surgical technique
- A tension-free surgical atmosphere (remember is not a race !)

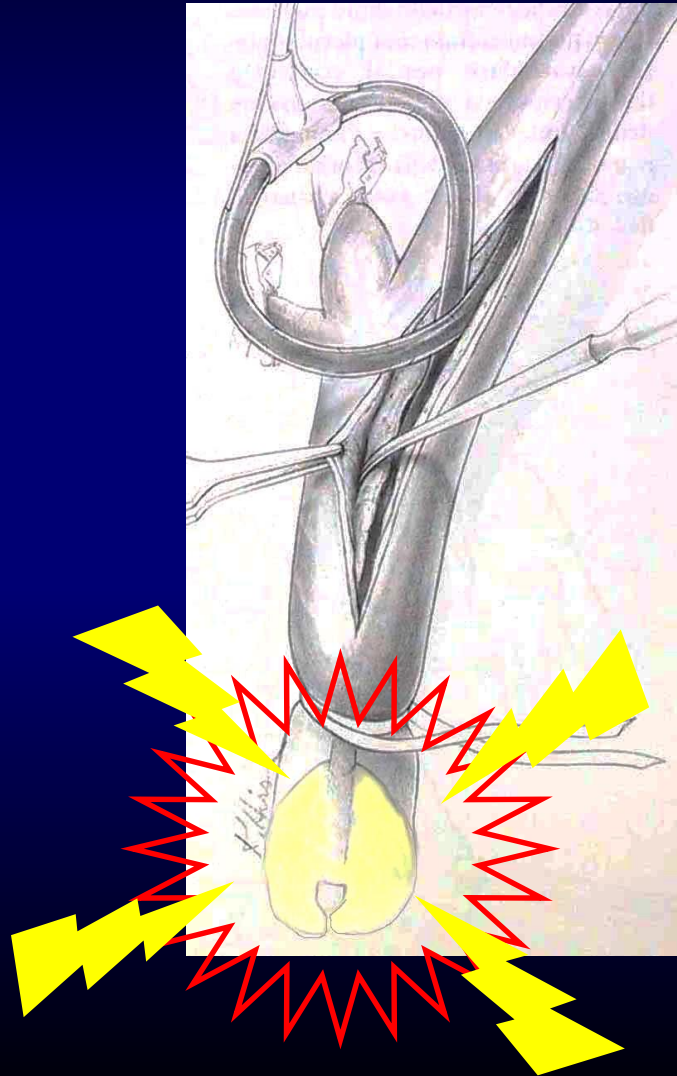
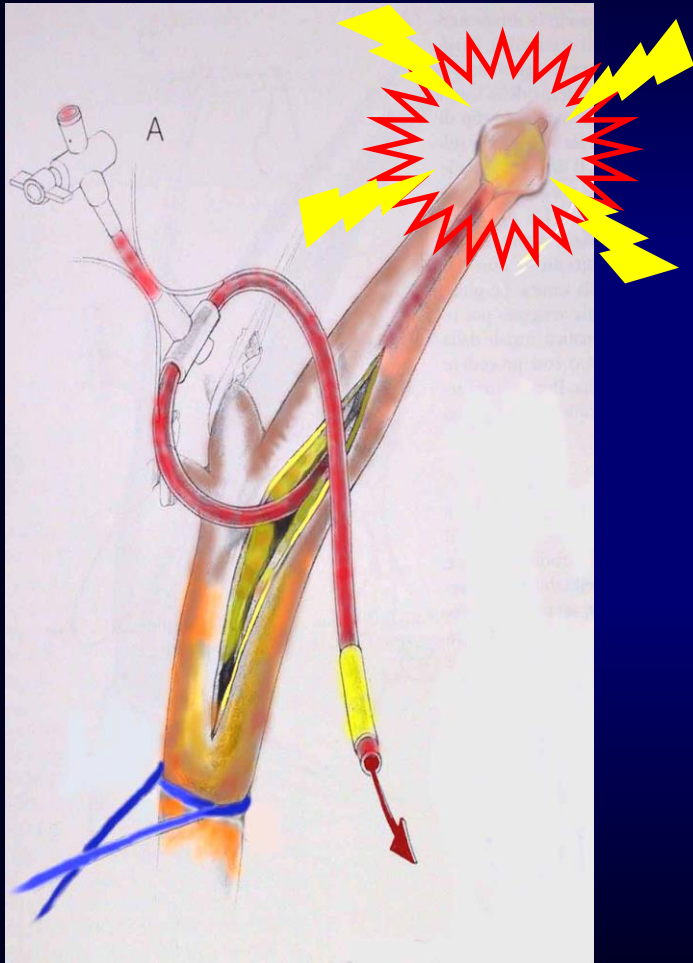
Question

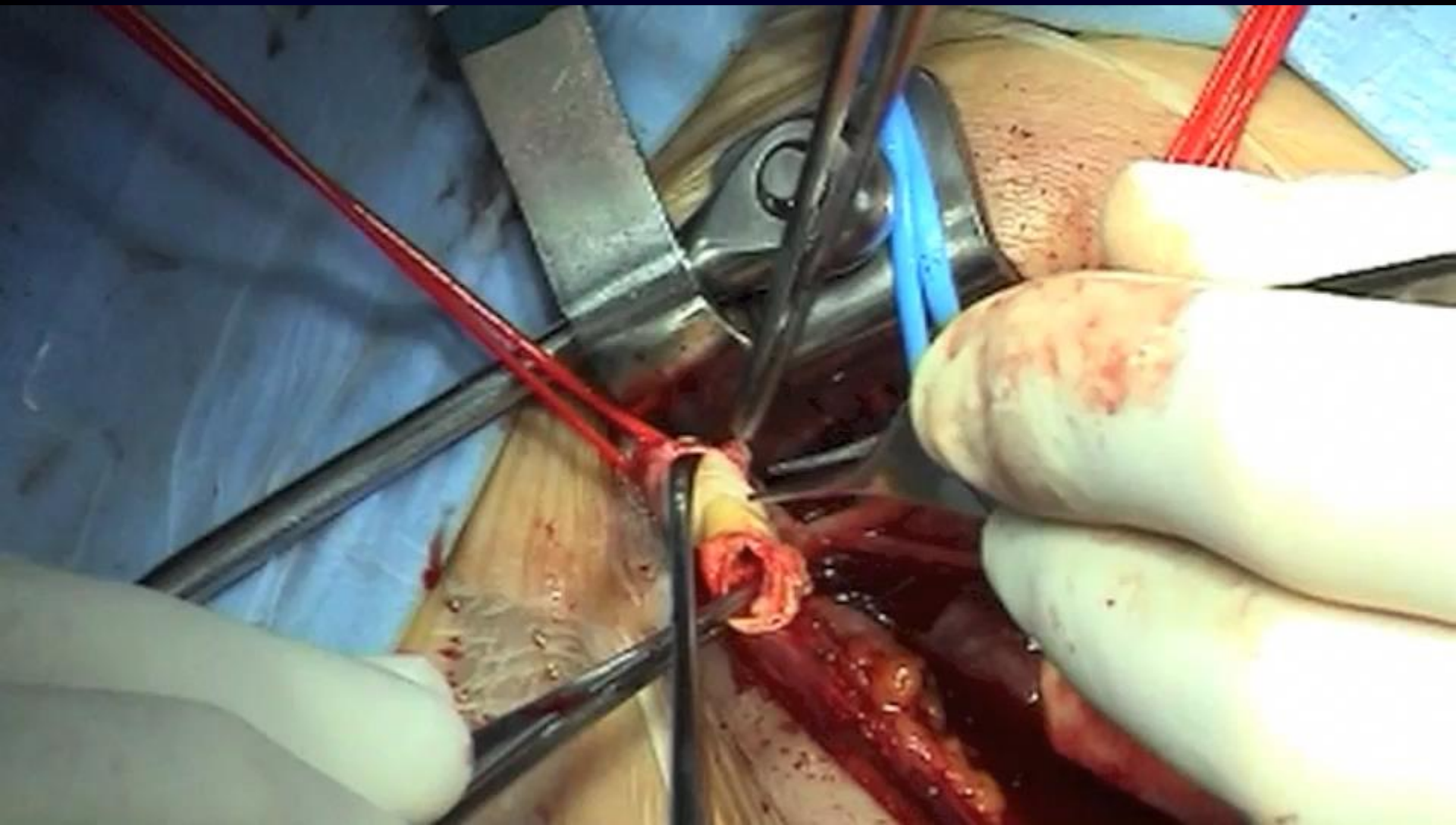
How long will it take to do this ?

...as long as necessary !









TECNICHE DI MONITORAGGIO DELL'ATTIVITA' ENCEFALICA

- ✓ *Elettroencefalogramma (EEG)*
- ✓ *Potenziali evocati somatosensoriali (PESS)*
- ✓ *Stump pressure*
- ✓ *Misurazione del flusso ematico cerebrale (CBF)*
- ✓ *Doppler transcranico (DTC)*
- ✓ *Spettroscopia infrarossa (NIRS)*
- ✓ *Monitoraggio del metabolismo cerebrale mediante la saturazione in O_2 del sangue venoso cerebrale (SVJO₂)*
- ✓ *Dosaggio dei livelli di glutamato nel sangue venoso cerebrale*
- ✓ *Anestesia locale*



Nothing is more distressing than realizing you've brought a serious event just consequently an action undertaken to prevent it !



(Clagett, Surgery 93, 313, 1983) & (Zierler, Arch. Surg.117, 1408, 1982)



Very few surgical interventions have undergone such a careful scientific evaluation like carotid endoarterectomy

(A. Ross Naylor, Carotid Artery Surgery, a problem-based approach. WB Saunders, 2000

