Eversion CEA: technical tips and indications

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Disclosures
Meeting organizer: WL Gore and Associates
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Vein patch angioplasty

Eversion Endarterectomy
Distal vertebral artery reconstruction
Introduction to *Annals of Vascular Surgery*
Operative technique

Preop medical Rx
ASA, clopidogrel, statin
Do not reverse warfarin
Dexamethasone 10 mg IV

GETA
EEG monitoring

2.5 cm
Pediatric Omni-trac

Courtesy R Berguer, MD
Eversion CEA

Advantages

- Shorter operative time
- No need for a patch
- Potentially less bleeding with clopidogrel
- Operate on full warfarin anticoagulation
- Reduced risk of restenosis (EVEREST Trial)
- Facilitates shortening of redundant ICA

Disadvantages

- Necessitates more extensive dissection
- Increased incidence of postop hypertension
- Challenging to place a shunt
- Acute ischemic preconditioning
- More difficult to access high lesions

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Number of patients taking clopidogrel or ASA

Using a multivariate normal linear model to adjust for total annual volume

- 76% p=0.003

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Mini-incision CEA

<table>
<thead>
<tr>
<th></th>
<th>Standard</th>
<th>Mini</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>941</td>
<td>124</td>
</tr>
<tr>
<td>Clopidogrel</td>
<td>39%</td>
<td>62%</td>
</tr>
<tr>
<td>30% Eversion</td>
<td>87% Eversion</td>
<td></td>
</tr>
<tr>
<td>CVA</td>
<td>2%</td>
<td>0%</td>
</tr>
<tr>
<td>CN</td>
<td>1%</td>
<td>1%</td>
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</tbody>
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Conclusions

Eversion CEA is a technique every vascular surgeon should become familiar with.

Like ‘standard’ CEA, attention to detail is critical:
- Preoperative planning
- Aggressive medical Rx
- Intra-op technique