INTRA-AORTIC EMBOLI – THE DANGERS ARE REAL

The Effects are Significant
The subject isn’t new. But a host of recent clinical studies have cast it in a different light, concluding that the frequency and severity of end-organ and neurologic impairment likely attributed to emboli release is significant.¹ ²

Advances in Intra-Aortic Filtration
The EMBOL-X intra-aortic filter has been demonstrated to provide safe and effective emboli capture and reduction of adverse neurologic and end-organ events.³ ⁴

Adverse Neurologic Events⁵

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<table>
<thead>
<tr>
<th>Event</th>
<th>Control n=278</th>
<th>EMBOL-X System n=304</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Outcomes</td>
<td>p=0.001</td>
<td></td>
</tr>
<tr>
<td>Stroke</td>
<td>12.0%</td>
<td>6.0%</td>
</tr>
<tr>
<td>TIA</td>
<td>10.0%</td>
<td>4.0%</td>
</tr>
<tr>
<td>Delirium</td>
<td>8.0%</td>
<td>2.0%</td>
</tr>
<tr>
<td>Coma</td>
<td>6.0%</td>
<td>2.0%</td>
</tr>
<tr>
<td>Memory Deficit</td>
<td>4.0%</td>
<td>2.0%</td>
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</tbody>
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“The risk of renal complications was reduced by 42% with the use of the EMBOL-X system in patients with a moderate to high preoperative risk score.”⁶
PROTECT YOUR PATIENTS FROM AORTIC EMBOLI
DESIGNED FOR THE PATIENT. BUILT FOR THE SURGEON.

PROTECTION
- 120-micron polyester mesh captures particulates without impeding flow
- Flexible, self-fitting Nitinol frame conforms to the aorta atraumatically
- Duraflo coating provides anti-thrombogenic properties
- Advanced 2-valve design minimizes blood loss

OPERATION
- Used in place of conventional cannula for seamless integration into procedure
- Direct access port means single incision with minimal change in technique
- Keyed cartridge ensures proper filter direction
- Wire-wound flexible construction delivers positive stability in surgical field
- Spring-loaded tip is designed for atraumatic aortic filter deployment

EMBOLI ARE RELEASED DURING AORTIC CROSS-CLAMP PLACEMENT AND REMOVAL
In fact, studies have shown that 66% of atheroemboli are released when clamps are manipulated during on-pump cardiac procedures. This includes cross-clamp placement and removal as well as partial occlusion clamp placement and removal. In a recent study, EMBOL-X filters deployed before cross-clamp placement captured more emboli on average than filters deployed before cross-clamp removal.

FILTER A: PRIOR TO PLACEMENT OF CROSS-CLAMP
Embolic debris seen on a 3x3 mm grid. First filter was deployed prior to placement of cross-clamp.

FILTER B: PRIOR TO REMOVAL OF CROSS-CLAMP
Embolic debris seen on a 3x3 mm grid. Second filter was deployed prior to removal of cross-clamp.
TWO LEVELS OF PROTECTION
Featuring ground breaking innovations, our proprietary technology makes the EMBOL-X Glide protection system the safest, most efficient intra-aortic filtration device available. It not only captures particulate matter in the bloodstream, but also helps to reduce the risk of particulate matter released by return flow to the aorta.

Gentle web-like dispersion of return flow is designed to minimize turbulence and help reduce the danger of dislodging particulate matter from vessel walls.

Central orientation of the cannula tip is designed to reduce direct jetting of flow against the aortic wall.

Specially designed autodilating tip requires only a small incision and eases insertion of cannula into the aorta.
Cannula Only

11 inch (28 cm) overall length
EXGF24D 24 Fr. (8.0 mm)

Filter Only

EXXXD Extra small filter, ID 22–26 mm
EXXS Small filter, ID 26–29 mm
EXXM Medium filter, ID 29–32 mm
EXXL Large filter, ID 32–35 mm
EXXL Extra large filter, ID 35–40 mm

Single Filter Kits

11 inch (28 cm) overall length
EXGF24XXSD (1) cannula + (1) extra small filter
EXGF24SSD (1) cannula + (1) small filter
EXGF24MMD (1) cannula + (1) medium filter
EXGF24LLD (1) cannula + (1) large filter
EXGF24XLD (1) cannula + (1) extra large filter

Dual Filter Kits

11 inch (28 cm) overall length
EXGF24XXSD (1) cannula + (2) extra small filter
EXGF24SSD (1) cannula + (2) small filter
EXGF24MMD (1) cannula + (2) medium filter
EXGF24LLD (1) cannula + (2) large filter
EXGF24XLD (1) cannula + (2) extra large filter

Aortic Sizers

CA40101 EMBOL-X aortic sizer kit

References:

CAUTION: Federal (USA) law restricts this device to sale by or on the order of a physician. See instructions for use for full prescribing information.