Maximizing Packing Volume and Angiographic Hemostasis

In aneurysm treatment, where there is an array of overlapping coil lines, Axium Detachable Coil System gives you a comprehensive coil line that covers all your softness grade & sizing needs while providing enhanced packing volume.

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Bare Platinum Configurations

<table>
<thead>
<tr>
<th>Model number</th>
<th>O.D.</th>
<th>Length (cm)</th>
<th>Volume (mm³)</th>
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</thead>
<tbody>
<tr>
<td>QC-2-30-50</td>
<td>0.0115&quot;</td>
<td>50</td>
<td>27.70</td>
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<tr>
<td>QC-2-20-30</td>
<td>0.0125&quot;</td>
<td>30</td>
<td>18.47</td>
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<tr>
<td>QC-2-15-30</td>
<td>0.0125&quot;</td>
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<td>18.47</td>
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<tr>
<td>QC-2-10-25</td>
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<td>25</td>
<td>11.88</td>
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<tr>
<td>QC-2-5-20</td>
<td>0.0125&quot;</td>
<td>20</td>
<td>7.92</td>
</tr>
<tr>
<td>QC-2-3-15</td>
<td>0.0125&quot;</td>
<td>15</td>
<td>5.36</td>
</tr>
<tr>
<td>QC-2-2-10</td>
<td>0.0125&quot;</td>
<td>10</td>
<td>3.14</td>
</tr>
<tr>
<td>QC-2-1-5</td>
<td>0.0125&quot;</td>
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Axium Detachable Coil System

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k-Factor: Optimizing softness, stability and volume

The Axium Detachable Coil System was designed using the k-Factor algorithm to optimize the relationship of primary wire, outer diameter, and loop diameter to achieve a balance of softness, stability and volume through the entire coil line.2

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Axium™ Detachable Coil System

Optimizing acute occlusion in aneurysm embolizations

Whether through packing volume or angiographic hemostasis, Axium Detachable Coil System’s ideal balance of softness, stability, and volume is designed to handle virtually any intracranial aneurysm coil procedure with a single, complete coil line.

Published Literature Regarding Aneurysm Coiling States

1. “In conclusion, in coiled intracranial aneurysms high packing densities protect against reopening by compaction, in non-thrombosed aneurysms.”
   - Marjan J. Slob, Menno Sluzewski, Willem Jan van Rooij. 1

2. “The use of complex-shaped coils allows higher packing density, which may improve the recanalization rate.”

Bringing Softness, Stability and Volume Together

In a single, complete line with stretch resistance, Axium™ Detachable Coil System ranges from the largest 3D (25 mm) to the smallest helical (1.5 mm) available. The system offers the optimal balance with the softness of a ‘10’ coil and the stability/volume of an ‘18’ coil.

Instant Detacher

Suitable for any operator size difference, allowing precise placement of a soft coil.

Axium™ Detachable Coil System

Soft articulation zone improves stability and resists kick-out
- Freely rotating ball-and-socket mechanism
- Unique floating eyelet

Superior stretch resistance enables responsive placement and repositioning
- Robust polypropylene strand(s)

Unique 3D design for enhanced conformability and layup
- Large loop-to-sphere ratio
- Small first loop diameter

Single coil line

Comprehensive coverage, from the largest 3D (25 mm) to the smallest finishing helical (1.5 mm).

Clinical Success Using the Axium Detachable Coil System — Giant Aneurysm with 31% Packing Volume

W.J. van Rooij
Professor of Interventional Neuroradiology
Chief and Director of Brabant Catholic Aneurysm Therapy Centre
M. Sluzewski, J. Peluso
St. Elisabeth Ziekenhuis, Tilburg, The Netherlands

Case Presentation
A 57-year-old woman presented with a 20 mm, partially thrombosed right IC A aneurysm symptomatic by mass effect on the brainstem. She was treated with 17 Axium coils, with a total length of 465 cm. All 17 coils went in smoothly and detached immediately. Procedure time was only 59 minutes. Packing volume was calculated as 31%.

Acom Bi-lobed Aneurysm — Packing Volume & Angiographic Hemostasis

Blaise Baxter, M.D.
Erlanger Hospital
Chattanooga, TN
Department of Radiology

Case Presentation
Patient presented with a 7 mm X 5.5 mm anterior communicating artery aneurysm and was treated with 6 Axium coils. Two loops of the initial framing coil were placed in the small secondary lobe while the remainder of the coil established a nice basket. At the end of the procedure, the aneurysm was no longer opacified and no arterial stenosis was noted.