A Better Angioplasty Balloon

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Conflict of Interest
- Patents licensed to West Coast Catheter

The Problem
- Angioplasty causes arterial trauma
- The response to trauma narrows the artery

The Solution
- Minimize the trauma
- Minimize the response

Arterial Trauma
- Rapid expansion
- High pressure inflation
Arterial Trauma

- Rapid expansion
- High pressure inflation
- Rotational shear
- Longitudinal shear
- Forced straightening

Focal Angulation and Repetitive Micro-Trauma

External Braid

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Pig Subclavian Artery

Regular Balloon

Flex Balloon

Flex Stent

Balloon-Expanded Stent

Curved Stent

Sheath Size Comparison

<table>
<thead>
<tr>
<th>Size</th>
<th>Advance LP</th>
<th>West Coast Catheter</th>
<th>Chocolate TriReme Medical</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 mm</td>
<td>3-4</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>6 mm</td>
<td>4-5</td>
<td>5</td>
<td>6</td>
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</tbody>
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Renal Angioplasty

Coronary Angioplasty

Intracranial Angioplasty

Dialysis Access Inflow

Dialysis Access Outflow

Bright Ideas Anyone?

• New applications for new technology
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