As the market leader for over a decade, the Angio-Seal Device has been extensively studied providing physicians with confidence in its clinical performance.

**Proven Efficacy**

**Earlier Ambulation**
- Angio-Seal Evolution Instructions For Use, “Results of a clinical study demonstrate that patients who have undergone diagnostic angiography and have received a 6F Angio-Seal Device can safely and effectively ambulate in less than 20 minutes.”

**Instant Hemostasis**
- Angio-Seal Evolution Instructions For Use

**Improved Patient Satisfaction**

**Improved Clinical Efficacy & Productivity**

**Safer Restick**

**Low Complication Rates**

---

**Ordering Information**

**Reorder Number**

<table>
<thead>
<tr>
<th>French Size</th>
<th>C610136</th>
<th>C610137</th>
</tr>
</thead>
<tbody>
<tr>
<td>6F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8F</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

St. Jude Medical is focused on reducing risk by continuously finding ways to put more control into the hands of those who save and enhance lives.
Intra-arterial Conformance:
The bioabsorbable anchor fits closely against the inner vessel wall while the suture allows the collagen to compact and create broad coverage over the arteriotomy.

Fully Bioabsorbable:
The suture, collagen and anchor components completely dissolve in 60-90 days.

Controlled Deployment for Confident Closure in More Patients.

Angio-Seal™ Evolution™ features a standardized deployment system that is designed to assist in overcoming many procedural variables and deliver a virtually instantaneous seal of the arteriotomy. It may also support increased confidence in the number of cases where the use of a mechanical seal is possible.

The Most Advanced Angio-Seal™ Device Ever

Angio-Seal™ Evolution™, the eighth generation of the proven Angio-Seal Vascular Closure Device platform, features improvements designed for added reliability and ease of use.

Standardized Deployment: Automated deployment provides more control throughout the deployment process which may reduce procedural variables and accommodate more cases.

Intra-arterial Conformance: The bioabsorbable anchor fits closely against the inner vessel wall while the sutures allow the collagen to compact and create broad coverage over the arteriotomy.

The Active Closure System

Angio-Seal Evolution features the fully bioabsorbable Active Closure System with an innovative intra-arterial anchor, suture and collagen seal. Designed to hold the system in place, the anchor provides rapid, safe and reliable hemostasis.

Compressive Sealing Force Comparison*

Compressive Sealing Force is the predetermined force between the collagen and the anchor at the arteriotomy after completion of the Angio-Seal deployment. All measured forces are less than 1lb.

Internal bench test shows consistency in the compressive sealing force with Angio-Seal™ Evolution™ in comparison to the variability in previous Angio-Seal platforms.

Compared to Manual Compression

Rapid, Effective Hemostasis: Immediate cessation and broad coverage of the collagen seal over the arteriotomy provides virtually instantaneous hemostasis.

Improved Patient Satisfaction: Patients report significantly less discomfort during and after closures with the Angio-Seal Device.

Clinical Efficiency and Productivity: Early patient ambulation and discharge can dramatically enhance the overall cost-effectiveness and productivity of the cath lab.

Low Complication Rates: Studies have shown that Angio-Seal may reduce the risk of access-site complications in both diagnostic and interventional patients.

Compared to Other Mechanical Closure Devices

Early Ambulation: Anchored placement of the collagen seal provides reliable hemostasis and promotes earlier patient ambulation.

Easy Deployment: Single-handed, standardized deployment reduces risk of procedural variables.

Safe Restick: Immediate arterial restick can be performed safely without increased vascular complications.

Proven Efficacy: Over 325 studies have proven that Angio-Seal is safe and effective in a broad range of patients and procedures.

BIOABSORPTION RATE OF ANCHOR

* Compared to Manual Compression

Compressive Sealing Force Comparison*

Compressive Sealing Force is the predetermined force between the collagen and the anchor at the arteriotomy after completion of the Angio-Seal deployment. All measured forces are less than 1lb.

Internal bench test shows consistency in the compressive sealing force with Angio-Seal™ Evolution™ in comparison to the variability in previous Angio-Seal platforms.

Compared to Other Mechanical Closure Devices

Early Ambulation: Anchored placement of the collagen seal provides reliable hemostasis and promotes earlier patient ambulation.

Easy Deployment: Single-handed, standardized deployment reduces risk of procedural variables.

Safe Restick: Immediate arterial restick can be performed safely without increased vascular complications.

Proven Efficacy: Over 325 studies have proven that Angio-Seal is safe and effective in a broad range of patients and procedures.

BIOABSORPTION RATE OF ANCHOR

* Compared to Manual Compression

Compressive Sealing Force Comparison*

Compressive Sealing Force is the predetermined force between the collagen and the anchor at the arteriotomy after completion of the Angio-Seal deployment. All measured forces are less than 1lb.

Internal bench test shows consistency in the compressive sealing force with Angio-Seal™ Evolution™ in comparison to the variability in previous Angio-Seal platforms.

Compared to Other Mechanical Closure Devices

Early Ambulation: Anchored placement of the collagen seal provides reliable hemostasis and promotes earlier patient ambulation.

Easy Deployment: Single-handed, standardized deployment reduces risk of procedural variables.

Safe Restick: Immediate arterial restick can be performed safely without increased vascular complications.

Proven Efficacy: Over 325 studies have proven that Angio-Seal is safe and effective in a broad range of patients and procedures.
**The Active Closure System**

Angio-Seal Evolution features the fully bioabsorbable Active Closure System with an innovative intra-arterial anchor, suture and collagen seal. Designed to hold the system in place, the anchor provides rapid, safe and reliable hemostasis.

**Compressive Sealing Force Comparison**

Compressive Sealing Force is the predetermined force between the collagen and the anchor at the arteriotomy after completion of the Angio-Seal deployment. All measured forces are less than 1lb. Internal bench test shows consistency in the compressive sealing force with Angio-Seal™ Evolution™ in comparison to the variability in previous Angio-Seal platforms.

**The Most Advanced Angio-Seal™ Device Ever**

Angio-Seal Evolution® is the eighth generation of the proven Angio-Seal Vascular Closure Device platform, featuring improvements designed for added reliability and ease of use.

**Controlled Deployment for Confident Closure in More Patients.**

Angio-Seal Evolution® features a standardized deployment system that is designed to assist in overcoming many procedural variables and deliver a virtually instantaneous seal of the arteriotomy. It may also support increased confidence in the number of cases where the use of a mechanical seal is possible.

**Standardized Deployment:** Automated deployment provides more control throughout the deployment process which may reduce procedural variables and accommodate more cases.

- **Intra-arterial Conformance:** The bioabsorbable anchor fits closely against the inner vessel wall while the suture allows the collagen to compact and create broad coverage over the arteriotomy.

- **Fully Bioabsorbable:** The suture, collagen and anchor components completely dissolve in 60-90 days.

**BIOABSORPTION RATE OF ANCHOR**

- After 30 days
- After 60 days
- After 90 days

- A. Bioabsorbable Anchor: Designed to conform to the arteriotomy for confident closure.
- B. Bioabsorbable Collagen: Designed to conform to the arteriotomy for confident closure.
- C. Bioabsorbable Suture: Tethers the anchor and collagen together, providing a secure seal.
- D. Compaction Tube: Automatically moves forward to create instant collagen compaction upon deployment.

**Compressive Sealing Force Comparison**

Compressive Sealing Force is the predetermined force between the collagen and the anchor after completion of the Angio-Seal deployment. All measured forces are less than 1lb. Internal bench test shows consistency in the compressive sealing force with Angio-Seal™ Evolution™ in comparison to the variability in previous Angio-Seal platforms.

**Early Ambulation:** Anchored placement of the collagen seal provides reliable hemostasis and promotes earlier patient ambulation.

**Easy Deployment:** Single-handed, standardized deployment reduces risk of procedural variables.

**Safe Restick:** Immediate arterial restick can be performed safely without increased vascular complications.

**Proven Efficacy:** Over 325 studies have proven that Angio-Seal is safe and effective in a broad range of patients and procedures.
Intra-arterial Conformance:
The bioabsorbable anchor fits closely against the inner vessel wall while the suture allows the collagen to compact and create broad coverage over the arteriotomy.

Fully Bioabsorbable:
The suture, collagen and anchor components completely dissolve in 60-90 days.

The Active Closure System
Angio-Seal Evolution features the fully bioabsorbable Active Closure System with an innovative intra-arterial anchor, suture and collagen seal. Designed to hold the system in place, the anchor provides rapid, safe and reliable hemostasis.

BIOABSORPTION RATE OF ANCHOR

Controlled Deployment for Confident Closure in More Patients.
Angio-Seal™ Evolution™ features a standardized deployment system that is designed to assist in overcoming many procedural variables and deliver a virtually instantaneous seal of the arteriotomy. It may also support increased confidence in the number of cases where the use of a mechanical seal is possible.

The Most Advanced Angio-Seal™ Device Ever
Angio-Seal™ Evolution™, the eighth generation of the proven Angio-Seal Vascular Closure Device platform, features improvements designed for added reliability and ease of use.

Standardized Deployment:
Automated deployment provides more control throughout the deployment process which may reduce procedural variables and accommodate more cases.

Instant Compaction:
Controlled deployment instantly maintains consistent collagen compaction providing optimal control of the arteriotomy, enabling an optimal seal.

Compressive Sealing Force Comparison

Compressive Sealing Force is the predetermined force between the collagen and anchor designed to maintain vascular closure after completion of the Angio-Seal deployment. All measured forces are less than 1lb.

Comparative bench test shows consistency in the compressive sealing force with Angio-Seal™ Evolution™ in comparison to the variability in previous Angio-Seal platforms.

Rapid, Effective Hemostasis:
Immediate cessation and broad coverage of the collagen seal over the arteriotomy provides virtually instantaneous hemostasis.

Improved Patient Satisfaction:
Patients report significantly less discomfort during and after closures with the Angio-Seal Device.

Clinical Efficiency and Productivity:
Early patient ambulation and discharge can dramatically enhance the overall cost-effectiveness and productivity of the cath lab.

Low Complication Rates:
Studies have shown that Angio-Seal may reduce the risk of access-site complications in both diagnostic and interventional patients.

Compared to Manual Compression

Rapid, Effective Hemostasis:
Immediate cessation and broad coverage of the collagen seal over the arteriotomy provides virtually instantaneous hemostasis.

Improved Patient Satisfaction:
Patients report significantly less discomfort during and after closures with the Angio-Seal Device.

Clinical Efficiency and Productivity:
Early patient ambulation and discharge can dramatically enhance the overall cost-effectiveness and productivity of the cath lab.

Low Complication Rates:
Studies have shown that Angio-Seal may reduce the risk of access-site complications in both diagnostic and interventional patients.

Compared to Other Mechanical Closure Devices

Easy Ambulation:
Anchored placement of the collagen seal provides reliable hemostasis and promotes earlier patient ambulation.

Easy Deploy:
Single-handed, standardized deployment reduces risk of procedural variables.

Safe Restick:
Immediate arterial restick can be performed safely without increased vascular complications.

Proven Efficacy:
Over 325 studies have proven that Angio-Seal is safe and effective in a broad range of patients and procedures.
As the market leader for over a decade, the Angio-Seal Device has been extensively studied providing physicians with confidence in its clinical performance.

**Proven Efficacy**

**Earlier Ambulation**
- Angio-Seal Evolution Instructions For Use (Results of a clinical study demonstrate that patients that have undergone diagnostic angiography and have received a 6F Angio-Seal Device can safely and effectively ambulate in less than 20 minutes).

**Instant Hemostasis**
- Angio-Seal Evolution Instructions For Use

**Improved Patient Satisfaction**

**Improved Clinical Efficacy & Productivity**

**Safer Restick**

**Low Complication Rates**

Ordering Information

<table>
<thead>
<tr>
<th>Reorder Number</th>
<th>French Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>C610136</td>
<td>6F</td>
</tr>
<tr>
<td>C610137</td>
<td>8F</td>
</tr>
</tbody>
</table>

St. Jude Medical is focused on reducing risk by continuously finding ways to put more control into the hands of those who save and enhance lives.
As the market leader for over a decade, the Angio-Seal Device has been extensively studied providing physicians with confidence in its clinical performance.

**Proven Efficacy**

**Earlier Ambulation**
- Angio-Seal Evolution Instructions For Use (Results of a clinical study demonstrate that patients that have undergone diagnostic angiography and have received a 6F Angio-Seal Device can safely and effectively ambulate in less than 20 minutes).

**Instant Hemostasis**
- Angio-Seal Evolution Instructions For Use

**Improved Patient Satisfaction**

**Improved Clinical Efficacy & Productivity**

**Safer Restick**

**Low Complication Rates**

**Ordering Information**

<table>
<thead>
<tr>
<th>Reorder Number</th>
<th>French Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>C610136</td>
<td>6 F</td>
</tr>
<tr>
<td>C610137</td>
<td>8 F</td>
</tr>
</tbody>
</table>

www.sjm.com/angio-seal

St. Jude Medical is focused on reducing risk by continuously finding ways to put more control into the hands of those who save and enhance lives.