MANTA®
Vascular Closure Device

Rapid. Reliable. Simple.\textsuperscript{2a-c}
Close with more confidence.
The innovative device for large bore femoral arterial access site closure.
A new era of simplicity and confidence in closure is here

The MANTA® Device is the first commercially available biomechanical vascular closure device designed specifically for large bore femoral arterial access site closure.¹

Engineered for versatility
Available in 14 Fr. and 18 Fr., a single MANTA® Device effectively closes femoral arterial access sites following the use of large bore sheaths ranging from 12 Fr. to 25 Fr. O.D.

RAPID HEMOSTASIS
Reduces time to hemostasis without pre-closure, utilizing the coagulation-inducing properties of collagen for rapid hemostasis to promote vessel healing.²b,3-5

RELIABLE CLOSURE
Delivers reproducible results and helps inspire confidence in achieving successful closure.²c

SIMPLE DEPLOYMENT
Addresses the challenges of large bore closure with a single easy-to-use device.²a

REFERENCE
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SIMPLE DEPLOYMENT
Addresses the challenges of large bore closure with a single easy-to-use device.\(^{2a}\)

REFERENCES
1. Data on file at Teleflex.
2. Data on file at Teleflex. The SAFE MANTA IDE Clinical Trial.
   a. A single MANTA® Vascular Closure Device was deployed in 99.6% of subjects in IDE trial.
   b. The MANTA® Device demonstrated a time to hemostasis (TTH) of 24 seconds median time (65 seconds mean time) from deployment to hemostasis, which is lower than published rates for Perclose ProGlide® where Perclose ProGlide® demonstrated a TTH of 9.8 ± 17 minutes (588 ± 1,020 seconds).\(^3\)
   c. 97.7% Technical Success, defined as percutaneous vascular closure obtained with the MANTA® Device without the use of unplanned endovascular or surgical intervention. Study sponsored by Teleflex Incorporated or its affiliates.
How it works

The MANTA® Device facilitates biomechanical closure without pre-closure.

1. Insert the MANTA® Device
2. Position and release anchor
3. Withdraw and seal

“The MANTA® Device simplifies large bore arterial access site closure. The device is easy to use, has a short learning curve and results in rapid hemostasis.”

— Dr. David Wood, Centre For Heart Valve Innovation, Vancouver, Canada

*This statement reflects the personal experience and opinion of the physician, Dr. Wood, Co-Principal Investigator of the SAFE MANTA IDE Clinical Trial, is a consultant of Teleflex Incorporated or its affiliates.

Continued on next page
How it works

The MANTA® Device facilitates biomechanical closure without pre-closure.

- **Radiopaque lock** secures the sliding suture knot without tamping and is a helpful landmark for future interventions.
- **Visual and auditory cues** help ensure confident deployment.
- **Sliding suture knot** provides initial compaction of the collagen.
- **Resorbable collagen and anchor** sandwich the access site.
- **Over-the-wire design** aids device placement throughout deployment.
- **Simple lever rotation** releases the anchor, and withdrawal from the artery positions the collagen.
MANTA® Vascular Closure Device

Clinically Proven

- **97.7%**
  Technical success rate

- **24 seconds**
  Median time from deployment to hemostasis (65 seconds mean time)

- **5.3%**
  Major complication rate and 4.2% VARC-2 Major Vascular Complication Rate (VARC-2 rate lower than published rates for suture-mediated closure)

The SAFE MANTA IDE Clinical Trial—the largest North American prospective multi-center study of a purpose-designed large bore femoral arterial access site closure device to date—demonstrated the safety and effectiveness of the MANTA® Device.

263 patients

Ordering Information

The MANTA® Vascular Closure Device is indicated for closure of femoral arterial access sites while reducing time to hemostasis following the use of 10-20 Fr. devices or sheaths (12-25 Fr. O.D.) in endovascular catheterization procedures.

<table>
<thead>
<tr>
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<tr>
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<tr>
<td>2115</td>
<td>18 Fr. MANTA Vascular Closure Device</td>
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<tr>
<td>188F</td>
<td>MANTA 8 Fr. Depth Locator</td>
<td>8 Fr.</td>
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<tr>
<td>114F</td>
<td>MANTA 14 Fr. Depth Locator</td>
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Packaged in quantities of five units per box.

› REFERENCES

› THE MANTA® DEVICE
› HOW IT WORKS
› CLINICALLY PROVEN
› SAFETY INFORMATION
› STAY CONNECTED
Clinically Proven

97.7%  
Technical success rate\(^{6a}\)

24 seconds  
Median time from deployment to hemostasis (65 seconds mean time)\(^{6b}\)

5.3%  
Major complication rate\(^{6c}\) and 4.2% VARC-2 Major Vascular Complication Rate (VARC-2 rate lower than published rates for suture-mediated closure)\(^7,8\)

The SAFE MANTA IDE Clinical Trial—the largest North American prospective multi-center study of a purpose-designed large bore femoral arterial access site closure device to date—demonstrated the safety and effectiveness of the MANTA® Device.\(^6\)

2630 patients  
20 North American centers

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REFERENCES

6. Data on file at Teleflex. The SAFE MANTA IDE Clinical Trial.  
   a. Percutaneous vascular closure obtained with the MANTA® Device without the use of unplanned endovascular or surgical intervention.  
   b. The MANTA® Device demonstrated a time to hemostasis (TTH) of 24 seconds median time (65 seconds mean time) from deployment to hemostasis.  
   c. Major complications defined as composite of i) vascular injury requiring surgical repair/stent-graft; ii) bleeding requiring transfusion; iii) lower extremity ischemia requiring surgical repair/additional percutaneous intervention; iv) nerve injury (permanent or requiring surgical repair); and v) infection requiring IV antibiotics and/or extended hospitalization.  
   Study sponsored by Teleflex Incorporated or its affiliates.


MANTA® Vascular Closure Device

INDICATIONS FOR USE: The MANTA Vascular Closure Device is indicated for closure of femoral arterial access sites while reducing time to hemostasis following the use of 10-20F devices or sheaths (12-25F OD) in endovascular catheterization procedures.

The MANTA Depth Locator (14F) is indicated for quantifying the depth of the femoral artery following the use of 10-14F devices or sheaths (12-18F OD) in endovascular catheterization procedures prior to 14F MANTA closure.

CONTRAINDICATIONS: There are no known contraindications to the use of this device.

WARNINGS: 1) Do not use if the puncture site is proximal to the inguinal ligament or above the most inferior border of the epigastric artery (IEA), as this may result in retroperitoneal bleeding. 2) Do not use in patients with severe calcification of the access vessel. 3) Do not use if the target common femoral artery lumen is <5mm for the 14F MANTA or <6mm for the 18F MANTA, whether due to intrinsic vessel size or stenosis from any cause. 4) Do not use in the presence of an ipsilateral femoral or iliac artery stenosis resulting in >50% diameter reduction. 5) Do not use in patients with peripheral vascular disease, as evidenced by claudication when ambulating <100 feet, weak or absent pulses in the affected limb, or ABI <0.5 at rest. 6) Do not use if the temperature indicator dot on package has changed from light gray to dark gray or black. 7) Do not use if the package is damaged or any portion of the package has been previously opened. 8) Do not use if the items in the package appear damaged or defective in any way. 9) Do not REUSE or RESTERILIZE. The MANTA Device is single use only. The MANTA Device contains bioresorbable materials that cannot be reused or re-sterilized. Reuse or re-sterilization may cause degradation to the integrity of the device, leading to device failure which may result in patient injury, illness, or death. 10) Do not use the MANTA Device where bacterial contamination or infection of the target site is suspected. 11) Do not use if there is substantial bleeding around the Depth Locator at the access site during the Depth Location procedure, as this may result in an inaccurate measurement. 12) Do not use if the MANTA delivery system becomes kinked. 13) Do not inflate a contralateral balloon in the femoral or iliac artery during MANTA Sheath exchange or the MANTA Closure procedure. 14) Do not use MANTA if there has been a femoral artery puncture in same vessel within the prior 30 days, recent femoral artery puncture in same groin that has not healed appropriately, and/or recent (<30 days) vascular closure device placement in same femoral artery. 15) Do not use if the puncture site is at or distal to the bifurcation of the superficial femoral and profunda femoris artery, as this may result in the a) anchor catching on the bifurcation or being positioned incorrectly, and/or b) collagen deposition into the vessel. 16) Do not use if there is difficult dilation from initial femoral artery access (e.g., damaging or kinking dilators) while step dilating up to the large-bore device. Difficult dilation of the puncture tract due to scar tissue may lead to swelling of surrounding tissue, thus compromising the accuracy of the puncture depth determined during the depth location procedure. 17) Do not use if sheath insertion is in a vessel other than the femoral artery. 18) Do not use if there is marked tortuosity of the femoral or iliac artery. 19) Do not use if the patient has marked obesity or cachexia (BMI >40 kg/m2 or <20 kg/m2). 20) Do not use if the patient has post-procedure blood pressure >180 mmHg that cannot be lowered prior to access site closure. 21) Do not use in patients who cannot be adequately anticoagulated for the procedure. 22) Do not use the MANTA Device in patients with known allergies to bovine products, collagen and/or collagen products, polyglycolic or polylactic acid polymers, stainless steel or nickel.

PRECAUTIONS: 1) The MANTA Device should only be used by a licensed physician or healthcare provider trained in the use of this device. 2) This device contains a small radiopaque stainless-steel lock that is implanted in the puncture tract. See MRI information in these instructions for use and patient implant card. 3) In the event that bleeding from the femoral access site persists after the use of the MANTA Device, the physician should assess the situation. Based on the physician assessment of the amount of bleeding, use manual or mechanical compression, application of balloon pressure from a secondary access site, placement of a covered stent, and/or surgical repair to obtain hemostasis.

POTENTIAL ADVERSE EVENTS: The following potential adverse events related to the deployment of Vascular Closure Devices have been identified: 1) Ischemia of the leg or stenosis of the femoral artery. 2) Local trauma to the femoral or iliac artery wall, such as dissection. 3) Retroperitoneal bleeding, and its consequences, as a result of failed closure in the setting of an access above the inguinal ligament or the most inferior border of the epigastric artery (IEA). 4) Perforation of iliofemoral arteries, causing bleeding/hemorrhage. 5) Thrombosis formation or embolism. 6) Nerve damage or neuropathy. 7) Other access site complications leading to bleeding, hematoma, pseudoaneurysm, or arterio-venous fistula, possibly requiring blood transfusion, surgical repair, and/or endovascular intervention. Potential Adverse Events associated with any large bore intervention, including the use of the MANTA Vascular Closure Device, include but are not limited to: Arterial damage; Arterio-venous fistula; Bradycardia; Compartment syndrome; Death related to the procedure; Deep vein thrombosis; Eccymosis; Edema; Infection at the puncture site which may require antibiotics or extended hospitalization; Inflammatory response; Late arterial bleeding; Oozing from the puncture site; Pressure in groin/access site region; Vessel laceration or trauma; Wound dehiscence.