

Aesculap Neurosurgery

Kopitnik AVM Microclip System



Kopitnik AVM Microclip System



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1968

1st generation of Yasargil® Aneurysm Clips made of stainless implant steel.



1/1

1970

Advanced clip with alpha coil design and ring lock.



1/1

1983

Next generation clip made of non-ferromagnetic Phynox with box lock.



1/1

1995

Titanium clips for improved post-operative imaging.



1/1

2004

Kopitnik AVM Microclip introduced.



"Apart from cerebral aneurysms, arteriovenous malformations are among the most common cerebrovascular disorders. The widely renowned Yasargil® Aneurysm Clips by Aesculap form an established part of the gold standard in microsurgical aneurysm therapy. They are, also, still used in microsurgical angioma operations. The extremely delicate vessels often require the application of finer clips. Therefore I have developed, with Aesculap, a special AVM Microclip System for the microsurgical treatment of angiomas.

"The Kopitnik AVM Microclip System comprises straight and, for the first time, curved microclips as well as special applying forceps. All clips are available in the sizes (length) 2, 3, 4 and 5 mm. The applying forceps, which represent a completely new development, allow the operator an excellent view of the pathology and the clip. The slim shaft offers exceptional flexibility within the craniotomy. The rotatable shaft and the unique active lock ensure that the operator can work comfortably and apply the clips safely.

"Another innovation incorporated in this AVM Microclip System is that the AVM microclips can be applied either temporarily or permanently. Depending on the operational situation, the clips can be removed or they can be left within the surgical site as permanent implants. Phynox is a well-tried material that has proven its reliability in the production of Yasargil Aneurysm Clips for more than 20 years. It offers excellent biocompatibility and can be safely used in MRI fields of up to 3.0 Tesla.*

"To facilitate the handling of the clips, we also have developed, for the first time, a packaging format of 4 clips per pack, which are available as an alternative to individually packaged clips. The 4-packs were designed to save time and effort in the operating room, especially in operations on large angiomas. Clips that have not been removed from the package can be steam-sterilized, in their original packaging after the operation – which is an obvious advantage for every hospital, especially in today's economy-driven environment.

"As an additional service, every clip comes with a number of small adhesive labels. They can be attached to the patient file kept at the hospital, or on the individual patient ID card, which are also available from Aesculap. In this way, the implants are well-documented for identification especially with regard to postoperative radiological examinations."

Thomas A. Kopitnik



The AVM Microclip System, for the Microsurgical Treatment of arteriovenous malformations, was developed in co-operation with:

Dr. Thomas A. Kopitnik, Jr.

Central Wyoming Neurosurgery
Casper, WY

*Tested per ASTM F2052

Kopitnik AVM Microclip System

A complete product program

Aesculap offers AVM clips in both straight and curved patterns. Clips are available in 2, 3, 4 and 5 mm blade lengths.

Temporary or permanent application

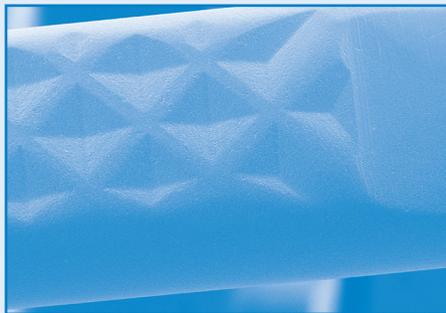
Depending on the intraoperative situation, Kopitnik AVM clips can be applied temporarily and removed after the operation or simply left on the vessel as permanent implants.

Phynox: A proven material



All Kopitnik AVM Microclips are made of Phynox, a special cobalt-based alloy. This material has been used for manufacturing Yasargil® Aneurysm Clips for over 20 years. It is characterized by its excellent biocompatibility and MR-safety. This MR-safe material allows safe postoperative radiological examinations at up to 3.0 Tesla.*

Secure grip



All Kopitnik AVM Microclips exert a pre-defined closing force of between 50 and 70 grams. They also feature a special, pyramid-shaped structure stamped on the inner blade surfaces. This allows the tissue to sink in between the pyramid shapes, thereby doubling the contact surface for the tissue and ensuring that the AVM Microclip has a secure grip of the vessel.

An easy-to-use sterilization tool



The clips are available either individually packed or in 4-packs. They are supplied in non-sterile, ergonomically shaped plastic disks, which can be autoclaved as a whole. Within this packaging, the clip is housed in a small silicone sponge in such a way that the clip applicator itself can be used for grasping and taking the clip from the packaging. This new package also allows for convenient resterilization of unused clips.



*Tested per ASTM F2052



Kopitnik AVM Microclips



Packaging with
4 Kopitnik AVM Microclips



Packaging with
1 Kopitnik AVM Microclip

Kopitnik AVM Microclips straight, closing force between 50 g and 70 g

Blade length	Max. opening width	Single pack	4-pack
2 mm, 1/13"	1.5 mm, 1/17"	FE902K	FE922K
3 mm, 1/8"	1.7 mm, 1/15"	FE903K	FE923K
4 mm, 1/6"	2.0 mm, 1/13"	FE904K	FE924K
5 mm, 1/5"	2.3 mm, 1/11"	FE905K	FE925K



Kopitnik AVM Microclips curved, closing force between 50 g and 70 g

Blade length	Max. opening width	Single pack	4-pack
2 mm, 1/13"	1.5 mm, 1/17"	FE912K	FE932K
3 mm, 1/8"	1.7 mm, 1/15"	FE913K	FE933K
4 mm, 1/6"	2.0 mm, 1/13"	FE914K	FE934K
5 mm, 1/5"	2.3 mm, 1/11"	FE915K	FE935K



AVM Clip Appliers

AVM Clip Appliers – XS-Design

FE906K

Working length 40 mm, 1 1/2"

FE907K

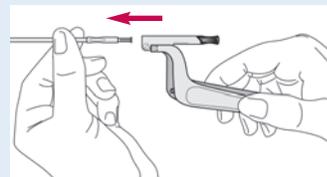
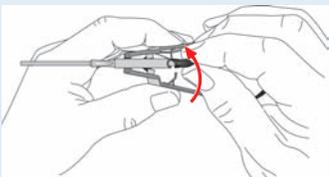
Working length 70 mm, 2 3/4"

FE908K

Working length 90 mm, 3 1/2"

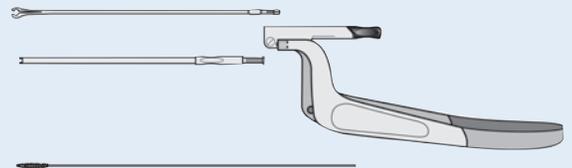
FE909K

Working length 110 mm, 4 1/3"



Disassembly

For thorough cleaning, the XS-design AVM Applier can be separated into 3 parts. Each applier is supplied with a small cleaning brush.





AVM Clip Appliers - Bayonet Design

FE917K

Working length 70 mm, 2 3/4"

FE918K

Working length 90 mm, 3 1/2"



AVM Clip Storage Tray



This tray simplifies the organization and storage of Kopitnik AVM clips. The tray also accommodates two AVM clip appliers.



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