

medartis®

PRECISION IN FIXATION

PRODUCT INFORMATION

SpeedTip® CCS 2.2, 3.0

Cannulated Compression Screws

APTUS®



SpeedTip CCS* 2.2, 3.0 Cannulated Compression Screws

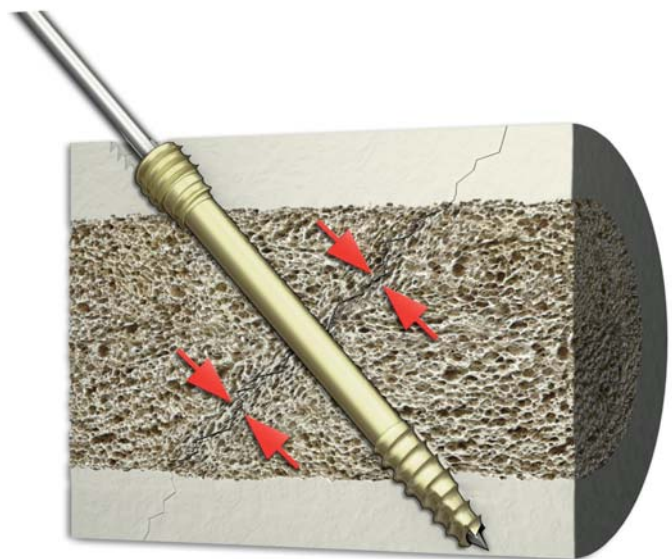
A new generation of self-drilling and self-tapping cannulated screws

SpeedTip CCS 2.2, 3.0 cannulated compression screws stand out thanks to innovative technologies and the unique quality of the screw threads. The patented SpeedTip polygonal geometry in combination with the high-precision construction of the thread considerably reduce the torque required to insert the screws, making them easier for the surgeon to use, reducing surgery times.

The optimized cutting tip enables the screw to cut and purchase extremely well in the bone, thus avoiding the risk of bone fragment displacement.

Indications

Treatment of fractures, osteotomies and arthrodeses of bones in the hand, wrist, elbow and foot with the appropriate screw size.



*Cannulated Compression Screw

- Two screw sizes for optimal treatment in a wide variety of indications
- Easy use

Examples of uses

Shoulder

Fractures, osseous ligament and tendon avulsions:

- of the proximal humerus
- of the glenohumeral joint

Elbow

Fractures:

- of the distal humerus
- of the proximal ulna
- of the proximal radius

Wrist

Fractures, styloid avulsions and fixation of bone fragments on:

- radius
- ulna

carpal arthrodeses and fractures

Hand

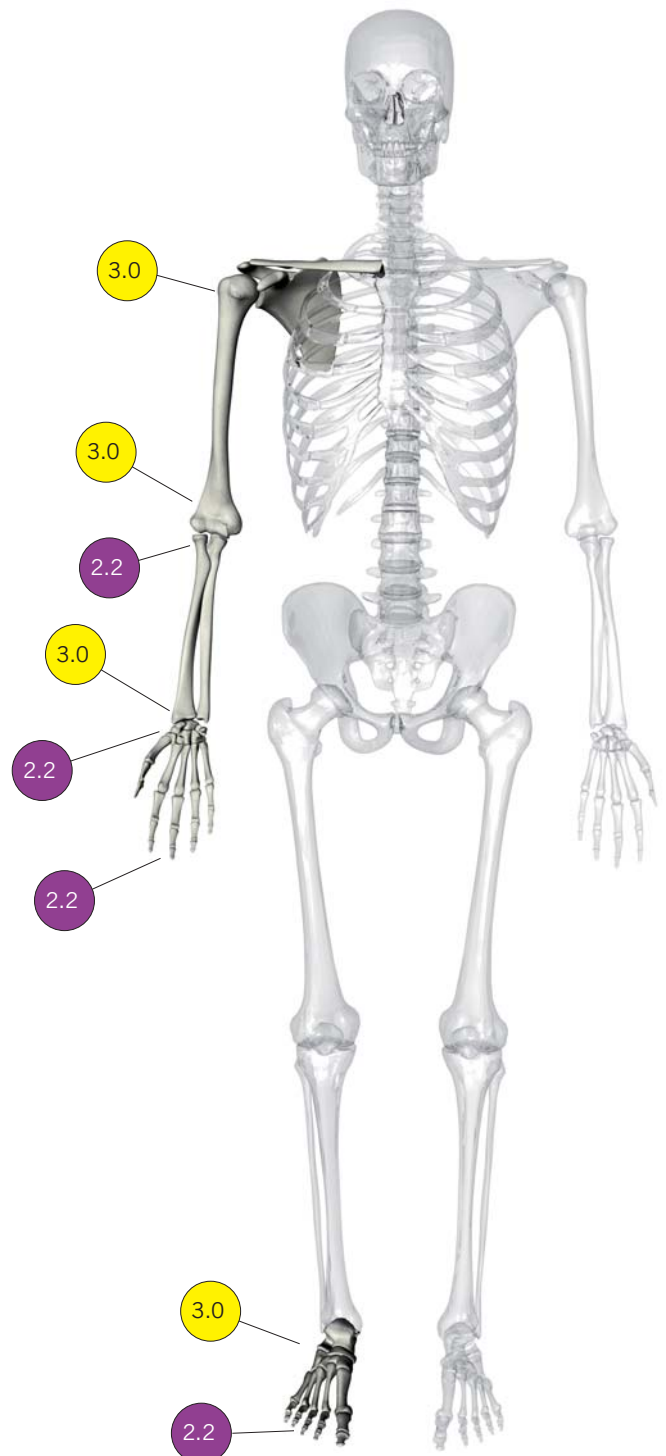
Transverse and spiral fractures, osseous ligament and tendon avulsions, as well as arthrodeses and osteotomies:

- of the phalanges
- of the metacarpals
- of the carpals

Foot

Fractures, arthrodeses and correction osteotomies:

- of the phalanges
- of the metatarsals
- of the tarsals

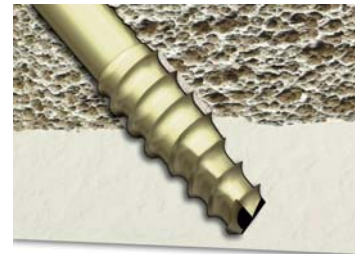


Technology, Screw Features

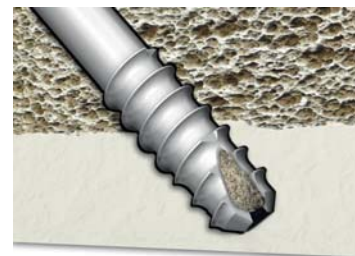
SpeedTip® polygonal geometry and HexaDrive®

Technology

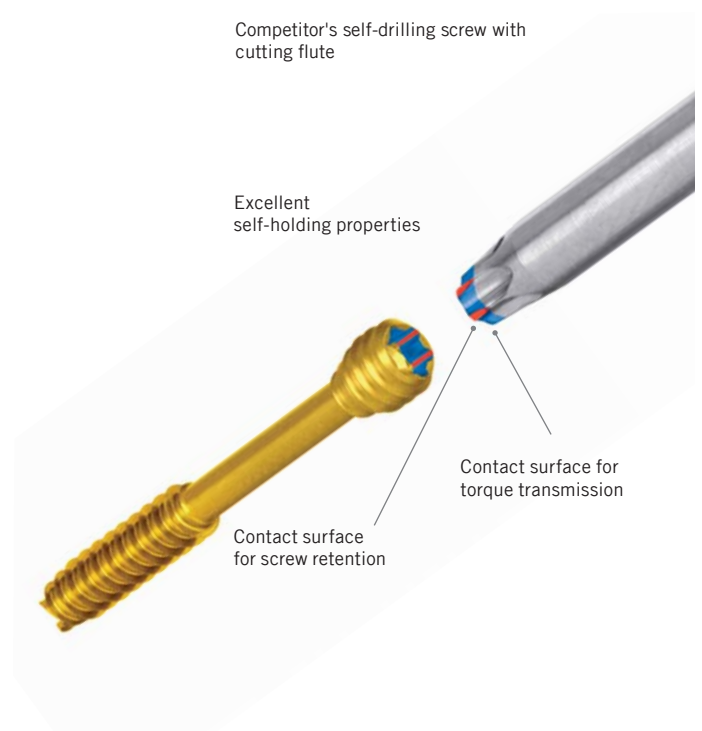
- SpeedTip thread design:
 - Screws can be inserted directly without pre-drilling
 - Reduced risk of bone fragment displacement thanks to excellent self-cutting properties
 - Effortless insertion – the polygonal tip pushes bone debris aside
- Excellent self-tapping properties due to precision cut thread profile
- HexaDrive technology:
 - Secure connection between screw and screwdriver
 - Increased torque transmission
 - Improved self-retaining mechanism



Medartis screw tip with SpeedTip polygonal geometry



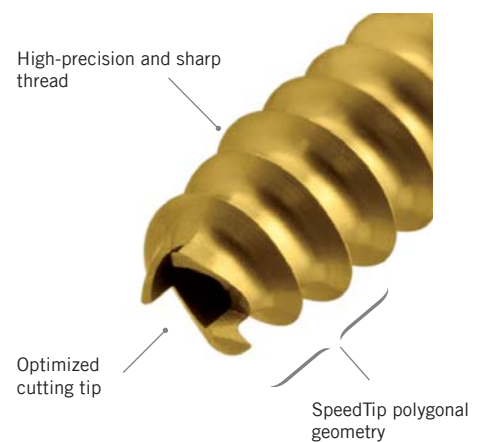
Competitor's self-drilling screw with cutting flute



- Innovative technologies and excellent thread properties
- Cannulated and self-drilling screw design
- Excellent self-tapping properties and low insertion torque reduce the risk of bone fragment displacement

Screw features and clinical benefits

- Self-drilling screw design:
 - Less work steps
 - Easier to use
 - Reduced OR time
- Substantially less effort required to insert screws due to:
 - SpeedTip polygonal geometry
 - High-precision and sharp thread
 - Optimized screw tip
- Extended thread area for secure compression and excellent purchase in cortical and cancellous bone
- Choice of short and long distal threads for interfragmentary treatment in a wide variety of indications



Medartis screw tip with SpeedTip polygonal geometry



Standard screw tip with cutting flute



Medartis thread



Competitor



Ordering Information

2.2 Cannulated Compression Screws, HexaDrive 7

Material: Titanium (ASTM F136)



Length	Distal Thread Length	Art. No.	Pcs./Pkg
10 mm	4 mm	A-5780.10/1	1
11 mm	5 mm	A-5780.11/1	1
12 mm	5 mm	A-5780.12/1	1
13 mm	5 mm	A-5780.13/1	1
14 mm	5 mm	A-5780.14/1	1
15 mm	5 mm	A-5780.15/1	1
16 mm	5 mm	A-5780.16/1	1
17 mm	5 mm	A-5780.17/1	1
18 mm	5 mm	A-5780.18/1	1
19 mm	5 mm	A-5780.19/1	1
20 mm	5 mm	A-5780.20/1	1
21 mm	5 mm	A-5780.21/1	1
22 mm	5 mm	A-5780.22/1	1
23 mm	5 mm	A-5780.23/1	1
24 mm	6 mm	A-5780.24/1	1
25 mm	6 mm	A-5780.25/1	1
26 mm	6 mm	A-5780.26/1	1
27 mm	6 mm	A-5780.27/1	1
28 mm	6 mm	A-5780.28/1	1
29 mm	6 mm	A-5780.29/1	1
30 mm	6 mm	A-5780.30/1	1

2.2 Cannulated Compression Screws, HexaDrive 7

Material: Titanium (ASTM F136)



Length	Distal Thread Length	Art. No.	Pcs./Pkg
22 mm	8 mm	A-5781.22/1	1
24 mm	8 mm	A-5781.24/1	1
26 mm	8 mm	A-5781.26/1	1
28 mm	9 mm	A-5781.28/1	1
30 mm	10 mm	A-5781.30/1	1
32 mm	11 mm	A-5781.32/1	1
34 mm	12 mm	A-5781.34/1	1
36 mm	13 mm	A-5781.36/1	1
38 mm	14 mm	A-5781.38/1	1
40 mm	15 mm	A-5781.40/1	1

3.0 Cannulated Compression Screws, HexaDrive 10

Material: Titanium (ASTM F136)



Length	Distal Thread Length	Art. No.	Pcs./Pkg
10 mm	3.5 mm	A-5880.10/1	1
11 mm	4.5 mm	A-5880.11/1	1
12 mm	5 mm	A-5880.12/1	1
13 mm	5 mm	A-5880.13/1	1
14 mm	5 mm	A-5880.14/1	1
15 mm	5 mm	A-5880.15/1	1
16 mm	5 mm	A-5880.16/1	1
17 mm	5 mm	A-5880.17/1	1
18 mm	5 mm	A-5880.18/1	1
19 mm	5 mm	A-5880.19/1	1
20 mm	5 mm	A-5880.20/1	1
21 mm	5 mm	A-5880.21/1	1
22 mm	5 mm	A-5880.22/1	1
23 mm	5 mm	A-5880.23/1	1
24 mm	6 mm	A-5880.24/1	1
25 mm	6 mm	A-5880.25/1	1
26 mm	6 mm	A-5880.26/1	1
27 mm	6 mm	A-5880.27/1	1
28 mm	6 mm	A-5880.28/1	1
29 mm	6 mm	A-5880.29/1	1
30 mm	6 mm	A-5880.30/1	1
32 mm	6 mm	A-5880.32/1	1
34 mm	7 mm	A-5880.34/1	1
36 mm	7 mm	A-5880.36/1	1
38 mm	8 mm	A-5880.38/1	1
40 mm	8 mm	A-5880.40/1	1

3.0 Cannulated Compression Screws, HexaDrive 10

Material: Titanium (ASTM F136)



Length	Distal Thread Length	Art. No.	Pcs./Pkg
26 mm	8 mm	A-5881.26/1	1
28 mm	9 mm	A-5881.28/1	1
30 mm	10 mm	A-5881.30/1	1
32 mm	11 mm	A-5881.32/1	1
34 mm	12 mm	A-5881.34/1	1
36 mm	13 mm	A-5881.36/1	1
38 mm	14 mm	A-5881.38/1	1
40 mm	15 mm	A-5881.40/1	1

8 | SpeedTip CCS 2.2, 3.0 – Cannulated Compression Screws

Twist Drills, Cannulated, Ø 1.8 mm



A-3736



A-3738*

Art. No.	System Size	Description	Length	Drill Shaft End	Pcs./Pkg
A-3736	2.2	for K-wire Ø 0.8 mm	87 mm	AO Quick Coupling	1
A-3738*	2.2	for K-wire Ø 0.8 mm, for drill stop	122 mm	AO Quick Coupling	1

Twist Drills, Cannulated, Ø 2.1 mm



A-3836



A-3838*

Art. No.	System Size	Description	Length	Drill Shaft End	Pcs./Pkg
A-3836	3.0	for K-wire Ø 1.1 mm	87 mm	AO Quick Coupling	1
A-3838*	3.0	for K-wire Ø 1.1 mm, for drill stop	122 mm	AO Quick Coupling	1

2.2/3.0 Drill Stop for A-3738, A-3838



Art. No.	System Size	Description	Length	Pcs./Pkg
A-2038*	2.2, 3.0	for cannulated twist drills A-3738 and A-3838	35 mm	1

2.2/3.0 Click-On Parallel K-Wire Guide



Art. No.	System Size	Description	Length	Pcs./Pkg
A-2027*	2.2, 3.0	for drill guides A-2725 and A-2825	20 mm	1

*optional

Screwdriver Blades, Cannulated, Self-Holding



A-2716



A-2816

Art. No.	System Size	Description	Length	Shaft End	Pcs./Pkg
A-2716	2.2	HD7, for K-wire Ø 0.8 mm	75 mm	AO Quick Coupling	1
A-2816	3.0	HD10, for K-wire Ø 1.1 mm	75 mm	AO Quick Coupling	1

Handle with Quick Connector



1:2

Art. No.	Description	Length	for Shaft End	Pcs./Pkg
A-2073	cannulated	124 mm	AO Quick Coupling	1

K-Wires, Stainless Steel



Art. No.	Ø	Description	Length	Pcs./Pkg
A-5040.00	0.8 mm	trocar tip design	100 mm	10
A-5040.10	1.1 mm	trocar tip design	100 mm	10
A-5043.00	0.8 mm	2 x trocar tip design	100 mm	10
A-5043.10	1.1 mm	2 x trocar tip design	100 mm	10
A-5042.00	0.8 mm	lancet tip design	100 mm	10
A-5042.10	1.1 mm	lancet tip design	100 mm	10

10 | SpeedTip CCS 2.2, 3.0 – Cannulated Compression Screws

Drill Guides



A-2725



A-2825

Art. No.	System Size	Description	Length	Pcs./Pkg
A-2725	2.2	for twist drill Ø 1.8 mm and K-wire Ø 0.8 mm	138 mm	1
A-2825	3.0	for twist drill Ø 2.1 mm and K-wire Ø 1.1 mm	138 mm	1

Depth Gauge



Art. No.	System Size	Description	Length	Pcs./Pkg
A-2835	2.2, 3.0	for cannulated compression screws 2.2, 3.0	110 mm	1

Cleaning Stylus



A-2706



A-2806

Art. No.	System Size	Ø	Length	Pcs./Pkg
A-2706	2.2	0.8 mm	147 mm	1
A-2806	3.0	1.1 mm	147 mm	1

Periosteal Elevator



Art. No.	Description	Length	Pcs./Pkg
A-7011	3 mm	185 mm	1

Storage in Perfection

- Economic and compact system
- Customized kit arrangement
- Streamlined organization of implants and instruments
- Easy to handle



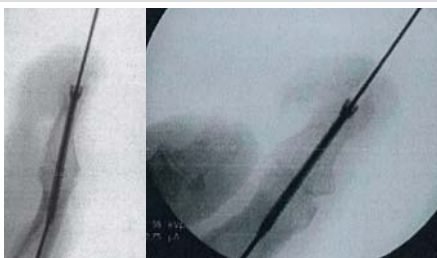
Clinical Examples

Hand & Radius

Case 1 – DIP Arthrodesis, Hand



Preoperative X-ray
Patient: male, 67 years old
DIP arthrodesis, third distal phalange



Intraoperative view of screw position
Fusion with a 2.2 cannulated compression screw



Postoperative X-ray

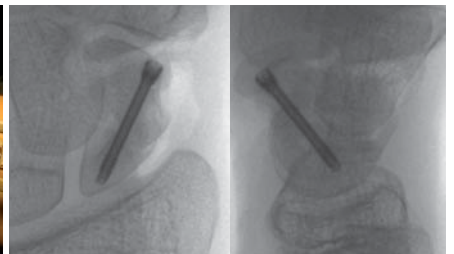
Case 2 – Scaphoid Pseudarthrosis



Preoperative X-ray and CT of the right hand
Patient: male, 16 years old
Non-healed scaphoid fracture, approximately 1 year old



Intraoperative image, volar
Left: resection of the pseudarthrosis tissue
Right: reconstruction of the scaphoid with cancellous bone chips from the iliac crest



Postoperative X-rays
Internal interfragmentary fixation with a 2.2 cannulated compression screw

Case 3 – Intra-articular Radius Fracture, C3.1



Preoperative CT images
Patient: male, 52 years old
C3.1 fracture with central impaction after a fall on the hand



Intraoperative X-ray
Percutaneous repositioning of the fracture with golf club type pre-bend K-wire



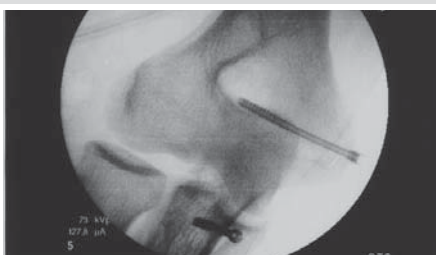
Postoperative X-rays
Percutaneous fixation of the fracture with two 3.0 cannulated compression screws

Elbow & Shoulder

Case 1 – Dislocated Elbow



Preoperative X-ray
 Patient: male, 32 years old
 Dislocated elbow with fracture of the coronoid and medial epicondyle osteotomy

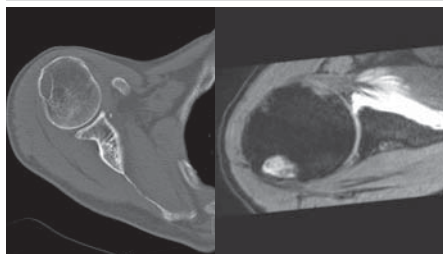


Intraoperative X-ray
 Repositioning of the fracture and insertion of two 3.0 cannulated compression screws



X-ray, 6 weeks postoperative

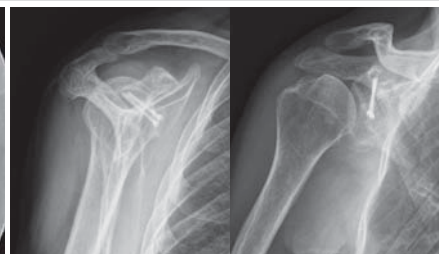
Case 2 – Dislocated Shoulder – Latarjet Procedure



Preoperative CT and MRI images
 Patient: male, 59 years old
 Unstable shoulder after shoulder dislocation with marked reduction of bone density



Intraoperative X-ray
 Fixation of the coronoid with attached tendon in the defect area with two 3.0 cannulated compression screws



X-ray, 6 weeks postoperative
 Bone in the fragment has healed in unchanged position

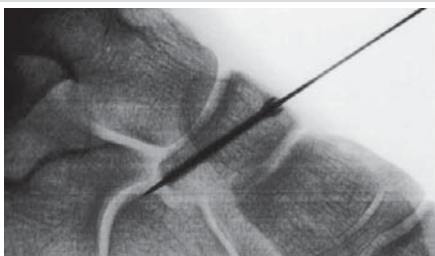
Clinical Examples

Foot

Case 1 – Axial Fracture of the Navicular Bone



Preoperative X-ray and CT image
Patient: male, 39 years old
Axial compression trauma, left foot



Intraoperative X-ray
Repositioning of the fragment with K-wire and
insertion of a 3.0 cannulated compression screw



X-ray and CT image, 6 weeks postoperative

Case 2 – Avulsion Fracture, Metatarsal V



Preoperative X-ray
Patient: male, 44 years old
Avulsion fracture, base of metatarsal V, left foot,
with displacement of 5 mm



Intraoperative X-ray
Insertion of two 3.0 cannulated compression
screws for a rotation-stable fixation

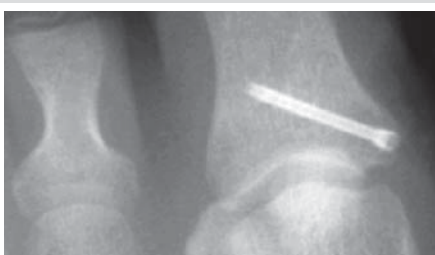


X-rays, 6 weeks postoperative

Case 3 – Osseous Ligament Avulsion



Preoperative X-ray
Patient: male, 22 years old
Osseous ligament avulsion, first proximal
phalange



Intraoperative X-ray
Fixation of the fragment with one 2.2 cannulated
compression screw

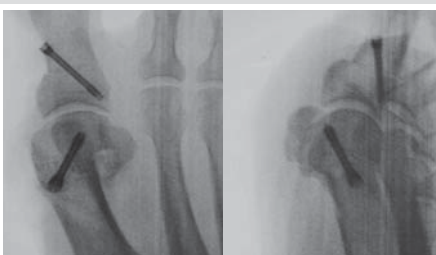


X-ray, 6 weeks postoperative

Case 4 – Hallux Valgus Correction



Preoperative X-ray
Patient: female, 50 years old



Intraoperative X-rays
Chevron-Akin osteotomy for correction with one 2.2 and one 3.0 cannulated compression screw



X-ray, 6 weeks postoperative

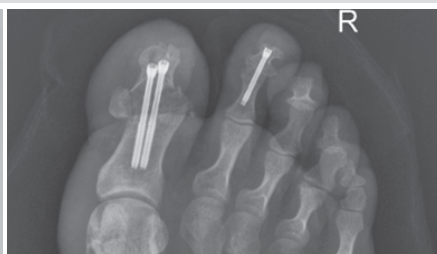
Case 5 – DIP Arthrodesis, Foot



Preoperative X-rays
Patient: male, 69 years old
Circular saw injury, distal phalanges I and II



Intraoperative X-ray
Fusion of the hallux metatarsophalangeal joint with two 3.0 screws and fusion of the second toe with one 2.2 cannulated compression screw



X-ray, 6 weeks postoperative

Clinical cases on pages 12 - 15 with kind permission of:
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HEADQUARTERS

Medartis AG | Hochbergerstrasse 60E | 4057 Basel/Switzerland
P +41 61 633 34 34 | F +41 61 633 34 00 | www.medartis.com

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