

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

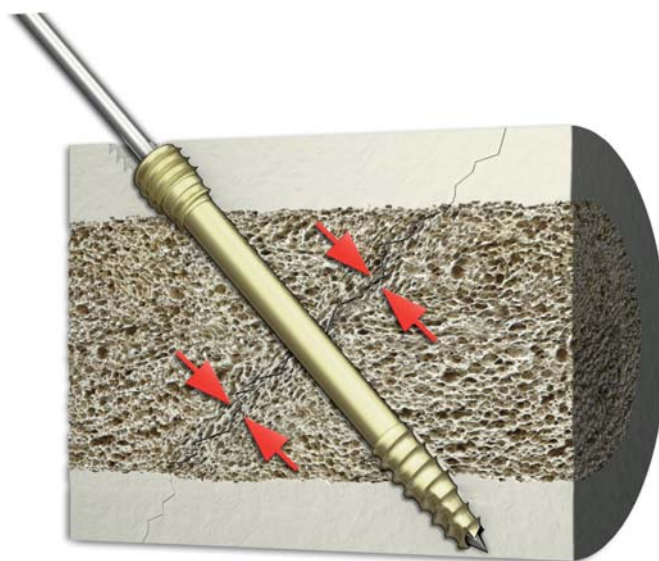
## A new generation of self-drilling and self-tapping cannulated screws

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 to use

## Examples of use

### 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

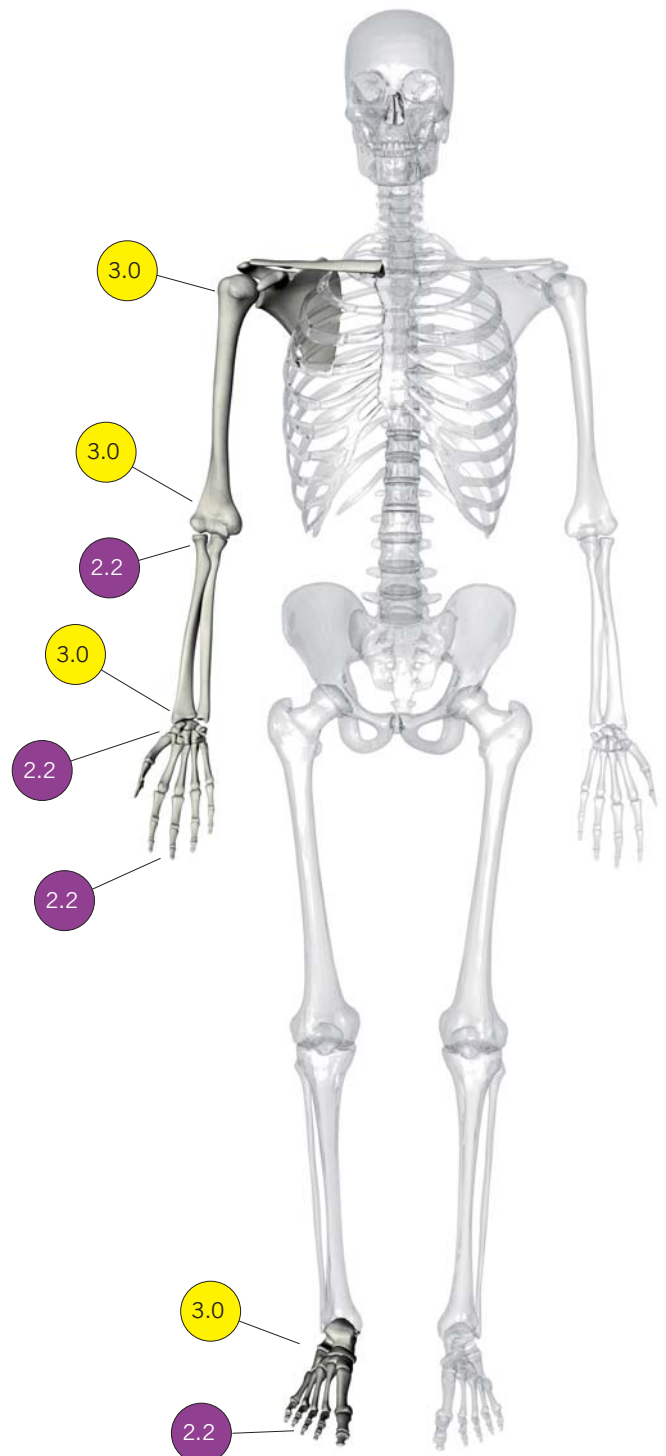
Transverse and spiral fractures, osseous ligament and tendon avulsions, as well as arthrodeses and osteotomies:

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

### Foot

Fractures, arthrodeses and correction osteotomies:

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

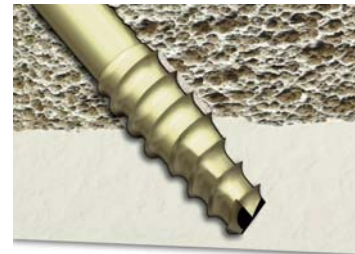


# Technology, Screw Features

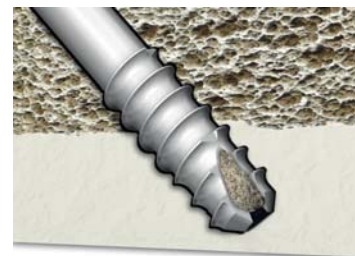
## SpeedTip® polygonal geometry and HexaDrive®

### Technology

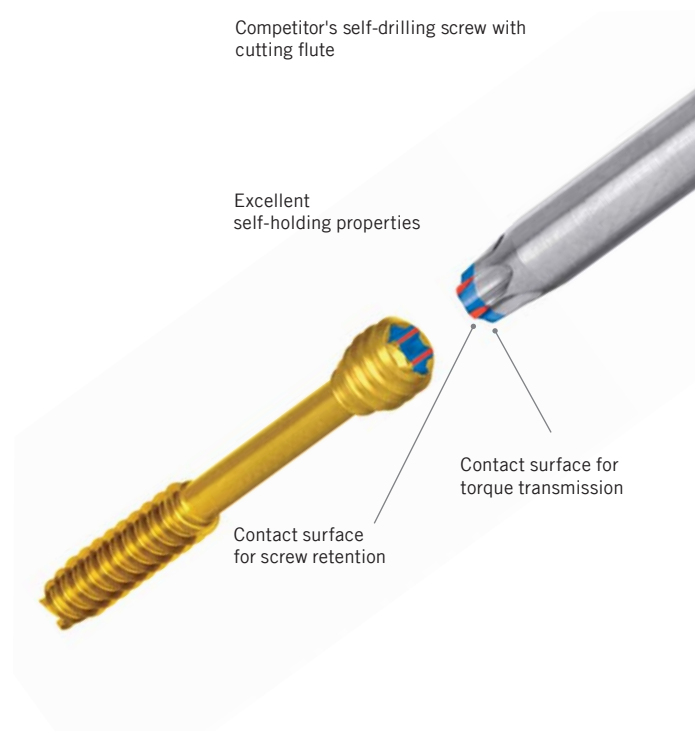
- SpeedTip thread design:
  - Screws can be inserted directly without pre-drilling
  - Reduced risk of bone fragment displacement thanks to excellent self-cutting properties
  - Effortless insertion – the polygonal tip pushes bone debris aside
- Excellent self-tapping properties due to precise and sharp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



Medartis screw tip with SpeedTip polygonal geometry



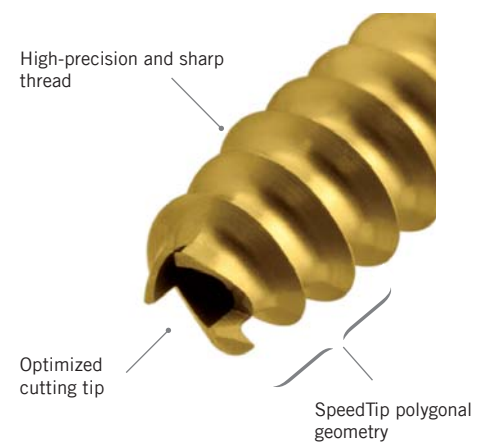
Competitor's self-drilling screw with cutting flute



- 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

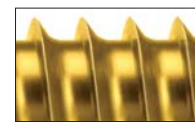
- Self-drilling screw design:
  - Less work steps
  - Easier to use
  - Reduced OR time
- Substantially less effort required to insert screws due to:
  - SpeedTip polygonal geometry
  - High-precision and sharp thread
  - Optimized screw tip
- Extended thread area for secure compression and excellent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



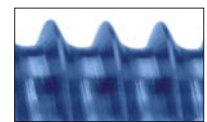
Medartis screw tip with SpeedTip polygonal geometry



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

## K-Wires, Stainless Steel



Art. No.	Ø	Description	Length	Pcs./Pkg
A-5040.00	0.8 mm	trocator tip design	100 mm	10
A-5040.10	1.1 mm	trocator 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

## Twist Drills, Cannulated, Ø 1.8 mm



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



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



## 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

## 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

## 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



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

## Depth Gauge



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

# Storage in Perfection

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



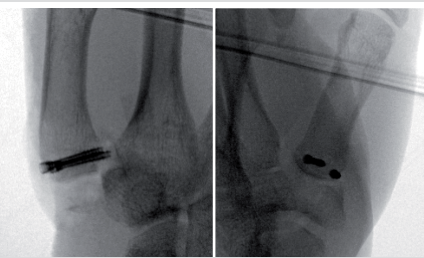
# Clinical Examples

## Hand & Wrist

### Case 1 – Metacarpal Fracture



Preoperative X-rays  
Patient: 17 years old  
Base Fracture of the Metacarpal I



Intraoperative X-rays



Postoperative X-rays  
Left: AP view  
Right: Lateral view

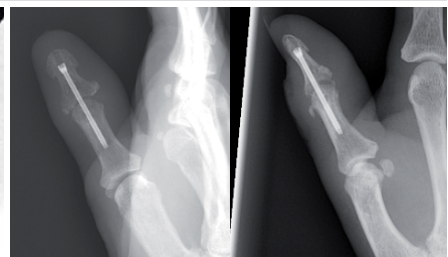
### Case 2 – DIP Arthrodesis Thumb



Preoperative X-ray  
Patient: male, 68 years old  
Several year history of IP joint thumb pain.  
Unresponsive to NSAIDs and splinting



Intraoperative X-rays  
Left: Insertion of the K-wire  
Right: Placement of a 2.2 CCS

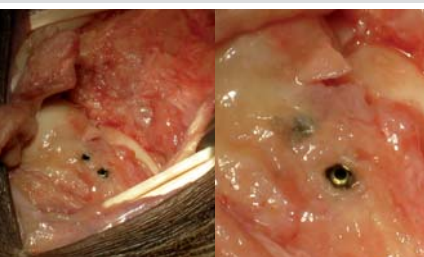


Postoperative X-rays

### Case 3 – Wrist Fracture Dislocation



Preoperative X-rays  
Patient: 28 years old  
Fracture dislocation of the wrist



Intraoperative images from dorsal



Postoperative X-rays  
Left: AP view  
Right: Lateral view

# Clinical Examples

## Wrist

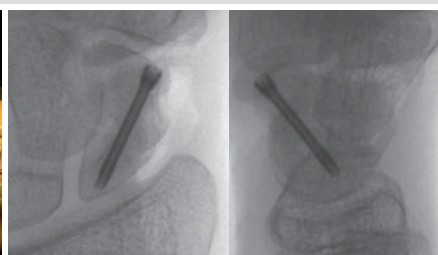
### Case 4 – Scaphoid Nonunion



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

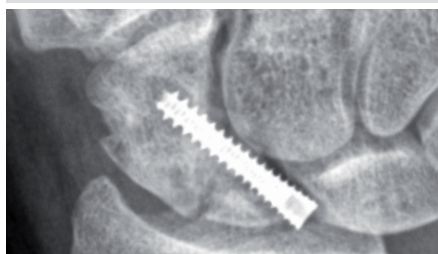


Intraoperative images, volar  
Left: resection of the pseudarthrosis tissue  
Right: reconstruction of the scaphoid with cancellous bone chips from the iliac crest

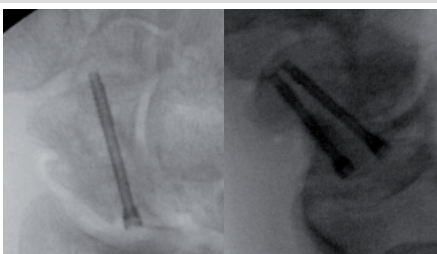


Postoperative X-rays  
Internal interfragmentary fixation with a 2.2 CCS

### Case 5 – Scaphoid Nonunion (2 Screws)



Preoperative X-ray  
Patient: 18 years old  
Nonunion of a scaphoid fracture



Intraoperative X-rays  
Insertion of two 2.2 CCS for rotational stability

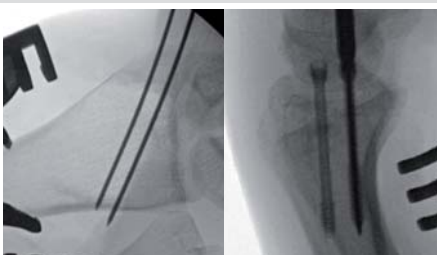


Postoperative X-ray

### Case 6 – Radial Styloid Fracture



Preoperative X-ray  
Patient: 33 years old  
Fracture of the radial styloid after fall



Intraoperative X-rays  
Left: Insertion of two K-wires for rotational stability  
Right: Placement of two 3.0 CCS



Postoperative X-rays  
Left: AP view  
Right: Lateral view



# Elbow & Shoulder

## Case 7 – 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 CCS

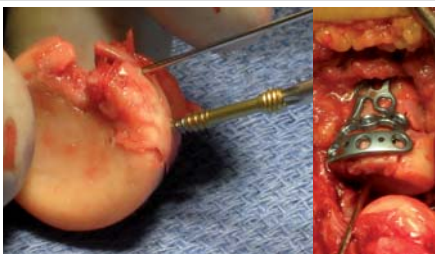


X-ray, 6 weeks postoperative

## Case 8 – Radial Head Fracture



Preoperative X-ray  
Patient: male, 33 years old  
Trauma after fall

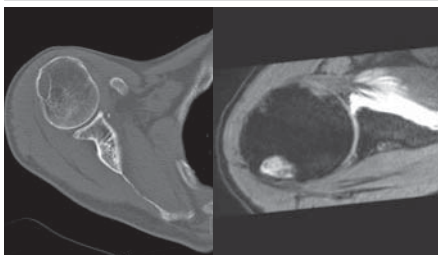


Intraoperative pictures  
Left: Fixation of the fragments with a 2.2 CCS on the back table  
Right: Refixation of the radial head with a rim plate



Postoperative X-rays

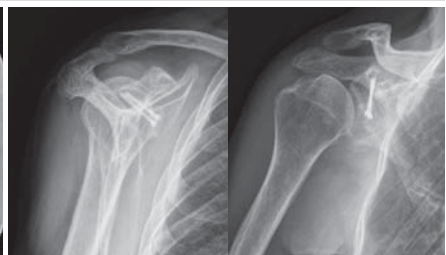
## Case 9 – Dislocated Shoulder – Latarjet Procedure



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 CCS



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

# Clinical Examples

## Foot

### Case 10 – 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 CCS



X-ray and CT image, 6 weeks postoperative

### Case 11 – 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 CCS for a rotation-stable  
fixation

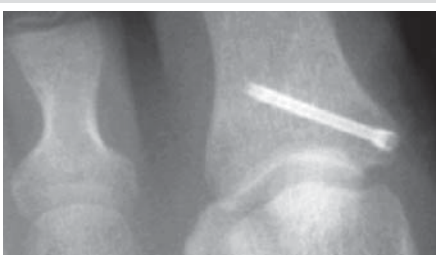


X-rays, 6 weeks postoperative

### Case 12 – Osseous Ligament Avulsion



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



Intraoperative X-ray  
Fixation of the fragment with one 2.2 CCS

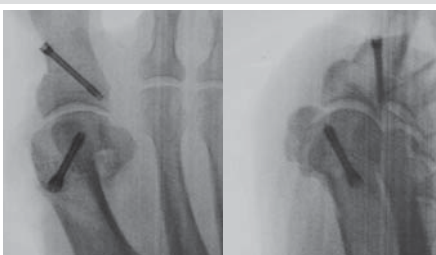


X-ray, 6 weeks postoperative

### Case 13 – 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 CCS



X-ray, 6 weeks postoperative

### Case 14 – 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 CCS and fusion of the second toe with one 2.2 CCS



X-ray, 6 weeks postoperative

Clinical cases on pages 11 - 15 with kind permission of:

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