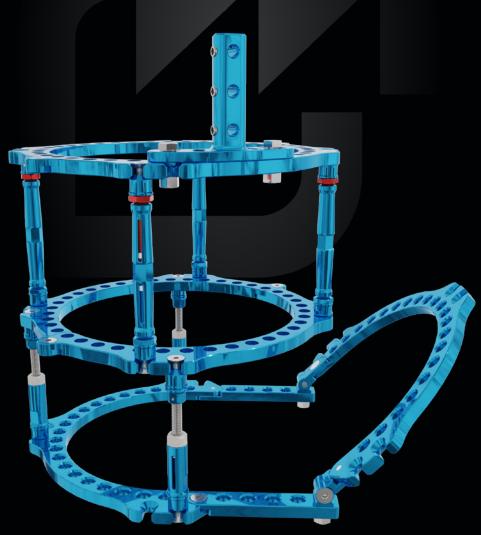


CLICKIT CF CIRCULAR EXTERNAL FIXATION SYSTEM

Quick connection struts
Stable and lightweight
MRI conditional

Sterile





Indications

Long bone fractures, bone infections, septic and non-septic nonunions, acquired and congenital deformities. Complex fractures affecting joints (knee, ankle) and foot fractures. Diabetic foot.

Applications

Fracture fixation, limb lengthening, deformity correction, ankle and knee arthrodesis.

FEATURES

ADVANTAGES

Sterile Ready for use

Made of aluminium alloy and stainless steel Lightweight, stable and resistant

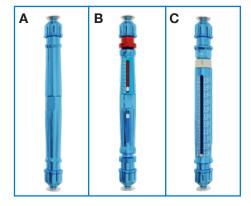
Quick connection struts Easy and quick to assemble

Components



Quick connection struts attach to an external portion of the half rings through a countersunk screw, leaving each ring hole unobstructed and available for surgery.

The unique connection between the strut and the ring also ensures partial angular correction.



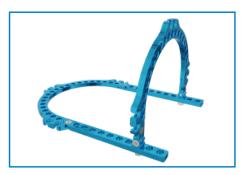
The quick connection struts come in three configurations, all available in different sizes:

A. Static

- **B**. Telescopic bidirectional: each rotation corresponds to a 2 mm compression/distraction on the graduated scale. This strut is particularly indicated for trauma.
- **C**. Telescopic monodirectional: each rotation corresponds to a 1 mm compression/distraction on the graduated scale. This strut is particularly indicated for bone transports.



The connection between two half rings is external to the circumference and is secured through a countersunk screw. This leaves all the holes in the ring unobstructed and available for surgery.



Foot rings are available in different diameters.

Foot ring extensions are available in 3 lengths. They connect to the ring through a countersunk screw that does not obstruct any of the holes of the ring.



The foot ring hinged connection bolt ensures optimal connection and rotation of the front ring.



Screw clamps accept \emptyset 4.0 mm, \emptyset 5.0 mm and \emptyset 6.0 mm screws. The base of the clamp is fitted with slots that ensure optimal rotation of the clamp to the bone.



The wire bolt can be connected to the ring easily using an L-shaped hexagonal wrench, thanks to the cylindrical hole on its top. This proves particularly useful where a standard wrench cannot be used.



45° oblique supports are available in two lengths. One side of the support is fitted with the quick connection system.

They can be used to join rings of different diameters.



Screw/wire supports have a threaded hole on the front side. This allows other supports or accessories to be screwed on top of it.

The base of the support is reinforced for better stability and resistance.



The rocker rail connects to the foot ring through threaded struts and bolts. It is compatible with foot rings of different diameters.

The rocker rail is coated with a treaded rubber ensuring a better grip.

ClickIt CF Kit

CF TRAUMA KIT



CF FOOT PLATE KIT



COMPONENTS

Description	Qty
Semi-rings	6
Countersunk screws	6
Wire clamps	8
Nuts	8

COMPONENTS

Description	Qty
Semi-rings	4
Countersunk screws	6
Foot plate	1
Double row foot plate	1
Foot plate joint	2
Wire clamps	10
Nuts	12

The kit is available in 3 sizes

Code	Description	Ø ring
50003TRST14	CF TRAUMA KIT Ø 140 mm	140
50003TRST16	CF TRAUMA KIT Ø 160 mm	160
50003TRST18	CF TRAUMA KIT Ø 180 mm	180

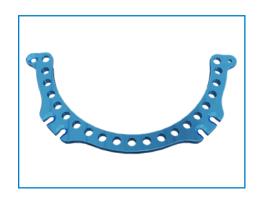
The kit is available in 4 sizes

Code	Description	Ø ring
50003ARST14	CF FOOT PLATE KIT Ø 140 mm	140
50003ARST16	CF FOOT PLATE KIT Ø 160 mm	160
50003ARST18	CF FOOT PLATE KIT Ø 180 mm	180
50003ARST20	CF FOOT PLATE KIT Ø 200 mm	200

Components

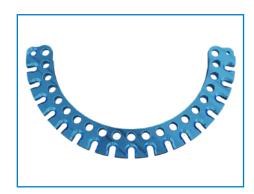
HALF RINGS

Code	Description
5000305ST2	Half ring Ø 80 mm (2 pcs)
5000307ST2	Half ring Ø 100 mm (2 pcs)
5000303ST2	Half ring Ø 120 mm (2 pcs)
5000301ST2	Half ring Ø 140 mm (2 pcs)
5000300ST2	Half ring Ø 160 mm (2 pcs)
5000302ST2	Half ring Ø 180 mm (2 pcs)
5000304ST2	Half ring Ø 200 mm (2 pcs)
5000306ST2	Half ring Ø 220 mm (2 pcs)



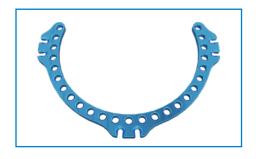
CROWN HALF RINGS

Code	Description
50003A.100ST2	Crown half ring Ø 100 mm (2 pcs)
50003A.120ST2	Crown half ring Ø 120 mm (2 pcs)
50003A.140ST2	Crown half ring Ø 140 mm (2 pcs)
50003A.160ST2	Crown half ring Ø 160 mm (2 pcs)
50003A.180ST2	Crown half ring Ø 180 mm (2 pcs)
50003A.200ST2	2 Crown half ring Ø 200 mm (2 pcs)
50003A.220ST2	2 Crown half ring Ø 220 mm (2 pcs)
50003A.240ST2	2 Crown half ring Ø 240 mm (2 pcs)



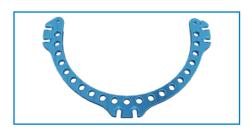
RINGS 5/8

Code	Description
5006102ST	5/8 ring Ø 120 mm
5006104ST	5/8 ring Ø 140 mm
5006106ST	5/8 ring Ø 160 mm
5006108ST	5/8 ring Ø 180 mm
5006110ST	5/8 ring Ø 200 mm
5006112ST	5/8 ring Ø 220 mm
5006114ST	5/8 ring Ø 240 mm



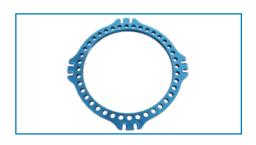
FOOT RINGS

Code	Description
5000361ST	Foot ring Ø 120 mm
5000363ST	Foot ring Ø 140 mm
5000360ST	Foot ring Ø 160 mm
5000362ST	Foot ring Ø 180 mm
5000364ST	Foot ring Ø 200 mm



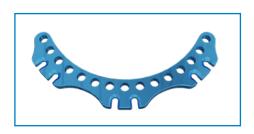
RINGS

Code	Description
500.301	Ring Ø 140 mm
500.300	Ring Ø 160 mm
500.302	Ring Ø 180 mm
500.304	Ring Ø 200 mm
500.306	Ring Ø 220 mm



RING SEGMENTS

Code	Description
5006031ST	Ring segment Ø 140 mm
5006030ST	Ring segment Ø 160 mm
5006032ST	Ring segment Ø 180 mm
5006034ST	Ring segment Ø 200 mm
5006035ST	Ring segment Ø 220 mm



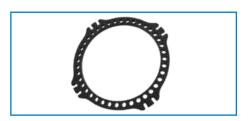
FOOT RING LONG

Code	Description
5000363LST	Foot ring long Ø 140 mm
5000360LST	Foot ring long Ø 160 mm
5000361LST	Foot ring long Ø 120 mm
5000362LST	Foot ring long Ø 180 mm
5000364LST	Foot ring long Ø 200 mm



RADIOLUCENT CARBON RING

Code	Description
500C300	Radiolucent carbon ring Ø 160 mm NON-STERILE
500C302	Radiolucent carbon ring Ø 180 mm NON-STERILE



COUNTERSUNK SCREWS

Code	Description
5000352ST10	Ring connection bolt sterile (10 pcs)
3000456ST10	ClickIt strut bolt sterile (10 pcs)



STATIC STRUTS

Code	Description
5000310ST2	Static strut L 30 mm (2 pcs)
5000312ST2	Static strut L 50 mm (2 pcs)
5000314ST2	Static strut L 100 mm (2 pcs)
5000316ST2	Static strut L 150 mm (2 pcs)
5000318ST2	Static strut L 200 mm (2 pcs)



BIDIRECTIONAL TELESCOPIC STRUTS

Code	Description
5000320ST2	Bilateral telescopic strut L 80-100 mm (2 pcs)
5000322ST2	Bilateral telescopic strut L 100-145 mm (2 pcs)
5000324ST2	Bilateral telescopic strut L 150-245 mm (2 pcs)



RAPID ADJUST STRUTS

Code	Description
50003B.100ST	Rapid adjust strut L 100 mm
50003B.150ST	Rapid adjust strut L 150 mm
50003B.250ST	Rapid adjust strut L 250 mm



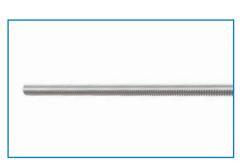
UNIDIRECTIONAL TELESCOPIC STRUTS

Code	Description
5006020ST2	Unilateral telescopic strut L 65-80 mm (2 pcs)
5006022ST2	Unilateral telescopic strut L 80-110 mm (2 pcs)
5006024ST2	Unilateral telescopic strut L 100-150 mm (2 pcs)
5006026ST2	Unilateral telescopic strut L 150-250 mm (2 pcs)



THREADED STRUTS

Code	Description
5000380ST2	Threaded rod M6x50 mm (2 pcs)
5000381ST2	Threaded rod M6x75 mm (2 pcs)
5000382ST2	Threaded rod M6x100 mm (2 pcs)
5000384ST2	Threaded rod M6x150 mm (2 pcs)
5000385ST2	Threaded rod M6x200 mm (2 pcs)
5000386ST2	Threaded rod M6x520 mm (2 pcs)
5000388ST2	Threaded rod M6x300 mm (2 pcs)
5000390ST2	Threaded rod M6x400 mm (2 pcs)



45° OBLIQUE SUPPORTS

Code Description

5006045ST Oblique support 45° L 50 mm **5006046ST** Oblique support 45° L 100 mm



CLAMPS

Code	Description
5000330ST2	Wire bolt (2 pcs)
5000330ST4	Wire bolt (4 pcs)



Code	Description
5000330LP	Long wire clamp with plate NON-STERILE
5000330P	ClickIt CF wire clamp plate NON-STERILE
500.330	CF wire bolt NON-STERILE
000.000	OF WINE BOILTNOTE GTETTIEE



Code	Description
5000332ST	Screw bolt 1 hole



Code	Description
5000333ST	Screw bolt 2 hole
5000334ST	Screw bolt 3 hole



Accessories

Code	Description
5000335ST	1-hole screw/wire post
5000336ST	2-hole screw/wire post
5000337ST	3-hole screw/wire post



Code	Description
5006040ST	Compression/distraction nut



Code	Description	
5006042ST	Adaptation plate	



Code **Description**

5006044ST5 Washer Ø 13x2 mm (5 pcs)



Code **Description**

5006052ST2 Hemispherical washer M6 (2 pcs)



Description Code

5000354ST20 Nut 10 mm (20 pcs)



Code **Description**

5000356ST10 Bolt M6x20 mm (10 pcs)



Code **Description**

5006050ST Universal hinge coupling



Code **Description**

5006056ST2 90° hinge (2 pcs)



Code **Description**

5006057-10 Wire stoppers (10 pcs)



Code **Description**

5006054ST2 Male hinge (2 pcs) 5006055ST2

Female hinge (2 pcs)



Description Code

5006058ST Hybrid connecting post (FEP)





5006506ST	Hybrid connecting post (ClickIt ER)
0000000	riyona connecting poor (Chorac Err)



FOOT RING ACCESSORIES

Code	Description
5000370ST2	Foot ring extension 5-hole (2 pcs)
5000372ST2	Foot ring extension 7-hole (2 pcs)
5000373ST2	Foot ring extension 10-hole (2 pcs)



Code	Description
5000374ST	Foot ring connection bolt
5000374ST2	Foot ring connection bolt (2 pcs)



Code	Description
5000375ST2	Foot ring support (2 pcs)
5000375-2	NON-STERILE foot ring support (2 pcs)



WIRES

Code	Description
5000340	K-wire Ø 1.8 L 400 mm
5000340T	K-wire Ø 1.8 L 400 mm titanium
5000340ST5	K-wire Ø 1.8 L 400 mm sterile (5 pcs)
5000340TST5	K-wire Ø 1.8 L 400 mm titanium sterile (5 pcs)
5000341	K-wire Ø 2.0 L 400 mm
5000341ST5	K-wire Ø 2.0 L 400 mm sterile (5 pcs)
5000342	Olive K-wire Ø 1.8 L 400 mm
5000342ST5	Olive K-wire Ø 1.8 L 400 mm sterile (5 pcs)
5000343	Olive K-wire Ø 2.0 L 400 mm
5000343ST5	Olive K-wire Ø 2.0 L 400 mm sterile (5 pcs)



Screws

HA COATED UNIVERSAL STAINLESS-STEEL SCREWS

Code	Description
VA4H150.40	HA coated self-drilling cortical screw Ø 4.0 mm, L 150, T 40 mm sterile
VA4H150.55	HA coated self-drilling cortical screw Ø 4.0 mm, L 150, T 55 mm sterile
VA5H150.40	HA coated self-drilling cortical screw Ø 5.0 mm, L 150, T 40 mm sterile
VA5H150.55	HA coated self-drilling cortical screw Ø 5.0 mm, L 150, T 55 mm sterile
VA5H150.70	HA coated self-drilling cortical screw Ø 5.0 mm, L 150, T 70 mm sterile
VA6H150.30	HA coated self-drilling cortical screw Ø 6.0 mm, L 150, T 30 mm sterile
VA6H150.40	HA coated self-drilling cortical screw Ø 6.0 mm, L 150, T 40 mm sterile
VA6H150.55	HA coated self-drilling cortical screw Ø 6.0 mm, L 150, T 55 mm sterile
VA6H150.70	HA coated self-drilling cortical screw Ø 6.0 mm, L 150, T 70 mm sterile
VA6H150.85	HA coated self-drilling cortical screw Ø 6.0 mm, L 150, T 85 mm sterile
VA6H250.40	HA coated self-drilling cortical screw Ø 6.0 mm, L 250, T 40 mm sterile
VA6H250.55	HA coated self-drilling cortical screw Ø 6.0 mm, L 250, T 55 mm sterile
VA6H250.70	HA coated self-drilling cortical screw Ø 6.0 mm, L 250, T 70 mm sterile
VA6H250.85	HA coated self-drilling cortical screw Ø 6.0 mm, L 250, T 85 mm sterile

UNIVERSAL TITANIUM SCREWS

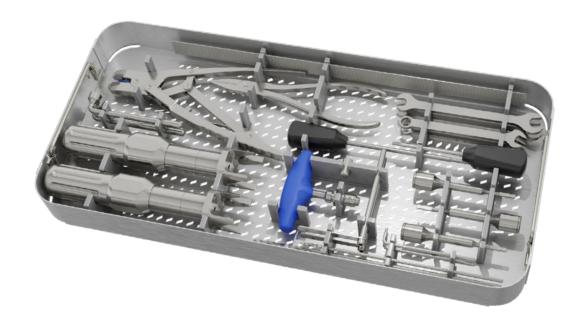
Code	Description
VA4T150.40	Titanium self-drilling cortical screw Ø 4.0 mm L 150 mm, T 40 mm
VA5T150.40	Titanium self-drilling cortical screw Ø 5.0 mm L 150 mm, T 40 mm
VA5T150.55	Titanium self-drilling cortical screw Ø 5.0 mm L 150 mm, T 55 mm
5000591TST	Transfixation titanium screw Ø 4.5-5.0 mm L 200 mm
5000592TST	Transfixation titanium screw Ø 4.5-5.0 mm L 250 mm
VA6T150.30	Titanium self-drilling cortical screw Ø 6.0 mm L 150 mm, T 30 mm
VA6T250.40	Titanium self-drilling cortical screw Ø 6.0 mm L 250 mm, T 40 mm
VA6T250.55	Titanium self-drilling cortical screw Ø 6.0 mm L 250 mm, T 55 mm
VA6T250.70	Titanium self-drilling cortical screw Ø 6.0 mm L 250 mm, T 70 mm
VA6T250.85	Titanium self-drilling cortical screw Ø 6.0 mm L 250 mm, T 85 mm

UNIVERSAL STAINLESS-STEEL SCREWS

Code	Description
VA4.150.40	Self-drilling cortical screw Ø 4.0, L 150 mm, T 40 mm sterile
VA4.150.55	Self-drilling cortical screw Ø 4.0, L 150 mm, T 55 mm sterile
VA5.150.30	Self-drilling cortical screw Ø 5.0, L 150 mm, T L 30 mm
VA5.150.40	Self-drilling cortical screw Ø 5.0, L 150 mm, T 40 mm sterile
VA5.150.55	Self-drilling cortical screw Ø 5.0, L 150 mm, T 55 mm sterile
VA5.150.70	Self-drilling cortical screw Ø 5.0, L 150 mm, T 70 mm sterile
VA6.150.30	Self-drilling cortical screw Ø 6.0, L 150 mm, T 30 mm
VA6.150.40	Self-drilling cortical screw Ø 6.0, L 150 mm, T 40 mm sterile
VA6.150.55	Self-drilling cortical screw Ø 6.0, L 150 mm, T 55 mm sterile
VA6.150.70	Self-drilling cortical screw Ø 6.0, L 150 mm, T 70 mm sterile
VA6.150.85	Self-drilling cortical screw Ø 6.0, L 150 mm, T 85 mm sterile
VA6.250.40	Self-drilling cortical screw Ø 6.0, L 250 mm, T 40 mm sterile
VA6.250.55	Self-drilling cortical screw Ø 6.0, L 250 mm, T 55 mm sterile
VA6.250.70	Self-drilling cortical screw Ø 6.0, L 250 mm, T 70 mm sterile
VA6.250.85	Self-drilling cortical screw Ø 6.0, L 250 mm, T 85 mm sterile

Instruments

Code	Description	Qty
5006018 Composition:	Complete ClickIt CF instrument sterilization set	
5000124L	2 mm (outon dod) have gone la groundriver	1
	3 mm (extended) hexagonal screwdriver	
5000124	3 mm hexagonal screwdriver	1
5006000	3 mm L-shaped hexagonal wrench	2
5006001	10-10 mm flat wrench	2
5006002	10-12 mm flat wrench	2
5006003	10 mm L-shaped tubular wrench	2
5006010	3.5 mm Ø, 110 mm L drill guide	1
5006012	4.5 mm Ø, 110 mm L drill guide	1
5000222	3.5 mm Ø, 200 mm L twist drill	1
5000224	4.5 mm Ø, 250 mm L twist drill	1
5000600	T-wrench for Ø 4.0 mm screws	1
5000601	T-wrench for Ø 5.0 mm screws	1
5000602	T-wrench for Ø 6.0 mm screws	1
5006004	Tubular wire tensioner	2
5006006	Wire cutter	1
5006007	Wire bending pliers	1
5006008	Stainless scale ruler	1
5006014	Wire tensioner adapter	1
5006016	Empty ClickIt CF instrument sterilization set	1



Implantable and sterile devices are covered by CE 1936 mark, non-sterile reusable instruments are CE marked

User guide for the "plier-type" wire tensioner CODE 5006005

The "plier-type" wire tensioner blocks the head of the wire bolt and allows the user to secure the wire bolt with only one wrench.





Sterilization

ClickIt CF devices are supplied sterile.

It is recommended that the instruments be sterilized in a saturated steam autoclave as follows:

TEMPERATURE: 134° EXPOSURE: 5 minutes

Clinical Cases

CASE 1

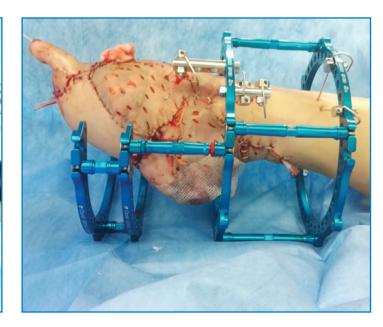
Dr. G. Caizzi, Prof. B. Moretti

Orthopaedic and Traumatology Clinic, University of Bari





50-year old σ Road trauma
Emergency cleaning and fixation with K-wires
Postoperative necrosis



Fixation using ClickIt CF fixator and microvascular myocutaneous flap 4 months after injury

Subsequent correction of equinism of the foot with external circular fixator using hinges





Clinical follow-up after 1 year

CASE 2

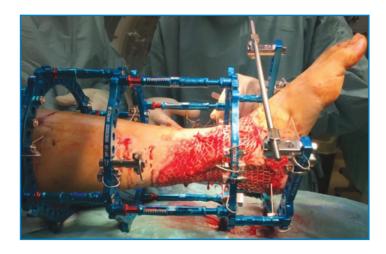


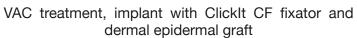


40-year old \mathcal{Q} Sports injury
III A compound fracture of left distal tibia
Assessment and x-ray



Emergency fixation using a temporary external fixator Skin necrosis after 2 weeks







Follow-up x-rays prior to removal after 5 months







Follow-up x-ray 3 months after removal and assessment





Full joint recovery







36-year old σ^{7} Road trauma
Grade II compound of left distal tibia
Emergency treatment using ClickIt CF fixator
Post-operative follow-up X-ray









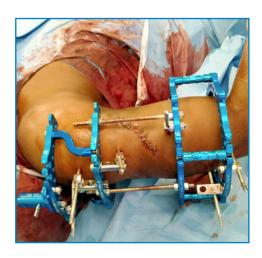


Healing after 4 months
Follow-up x-ray 1 month after removal and assessment, with full joint recovery





23-year old **o**⁷ Gunshot wound out resulting in Osteomyelitis



Cleaning and removal of proximal and distal sequestration and reaming of the intramedullary canal Fixation using ClickIt CF fixator



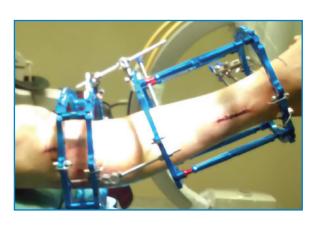




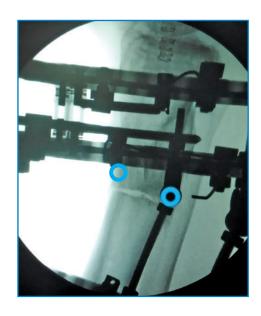
Removal after 5 months
Postoperative assessment and follow-up x-ray



43-years old **o**⁷ Malunion of fracture from road trauma (proximal tibia) 10° recurved deformity with 1 cm displacement



Removal of cannulated screws and application of ClickIt CF fixator on deformity with hinges



Postoperative x-ray



Follow-up x-ray after 150 days and healing





Removal of fixator after 150 days Follow-up x-ray under load after removal vs preoperative x-ray



Assessment after 180 days







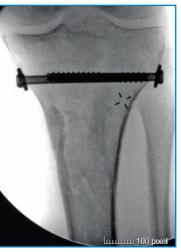


50-years old ♂ Motorcycle road trauma High energy proximal tibia fracture with skin damage

Fixation using cannulated screws and ClickIt CF fixator Assessment and postoperative x-ray





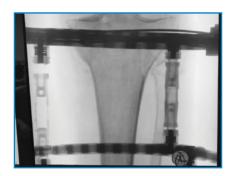


Removal of fixator and final follow-up x-ray after 3 months



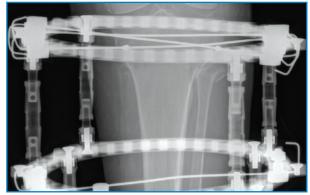


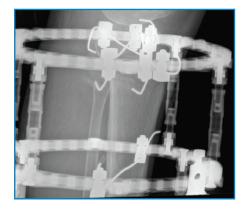
36-year old \mathbb{Q} - Road trauma Facial, head, thoracic trauma and left leg fracture AO/OTA 41-C3



Application of ClickIt CF fixator using K-wires with opposing olives in the proximal part Intraoperative x-ray







Postoperative Assessment and Postoperative x-ray











Pre-removal x-ray after 3 months

Follow-up x-ray after 1 month of removal and assessment





65-year old QSeptic complication after fixation with intramedullary nail right humerus



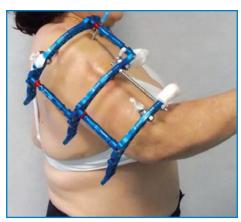




Removal of fixator and partial cleaning of area with removal of sequestration Fixation using ClickIt CF fixator Postoperative x-ray and postoperative assessment



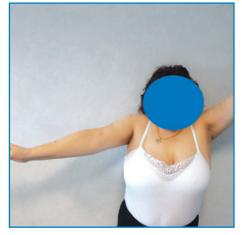








Pre-removal assessment
Removal of fixator after 4 months and follow-up x-ray after 1 month of removal





Follow-up assessment after 15 days





21-year old σ Post-traumatic septic nonunion of tibiotarsus and distal osteomyelitis of tibia with equinus deformity





Resection of infected area Application of ClickIt CF fixator and double osteotomy for recovery of dysmetria and ankle arthrodesis with functional positioning of foot





Removal of fixator after 10 months









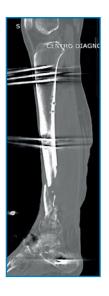
Follow-up x-ray and assessment after 60 days of removal

CASE 10









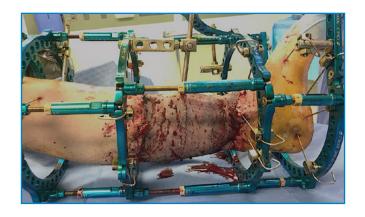


21-year old QMotorcycle road trauma

Compound tibia fracture AO/OTA 43C2 - G.A. III A

Postoperative x-ray after emergency fixation using a temporary external fixator

6 months
Assessment and diagnostic follow-up
Infected area findings



8 months
ClickIt CF fixation implant, bone resection, skin resection of the infected part and covering
Proximal lengthening osteotomy







Follow-up x-ray after 14 months
Follow-up x-ray after 16 months following
removal of fixator
Assessment after 1 month of removal



25-year old **o**[†]
Road trauma
Tibial sub-amputation (left tibia)





**

Trauma x-ray

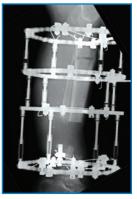


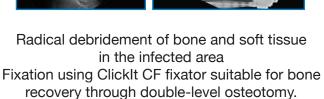




Emergency fixation using FEP fixator Postoperative assessment after 20 days

Development of post-traumatic osteomyelitis after about 60 days









After 10 days II osteotomy





Removal of fixator 8 months after implantation Follow-up x-ray and assessment 1 month after removal





38-year old ${\bf Q}$ Polytrauma- tibial pilon and pelvis fracture

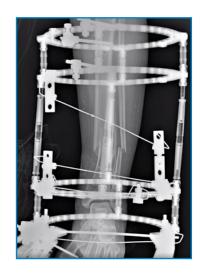








Reduction and stabilization using Clickit Cf Intra-operative x rays





Post-operative x rays



Application of rocker rail system



HEADQUARTERS

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