Gex-Foot

external fixator for foot and ankle

adrianmed

Technical notes

The Gexfix external fixator is designed for treatment of diaphyseal and epiphyseal fractures. Its versatility makes osteotomy fast and efficient.
Components are completely compatible between the various models (small, large or hybrid).

- Pins can be inserted independently in any plane. They are then connected with carbon tubes to form the fixation frame.
- Pin cluster clamps holding 2 or 3 parallel pins provide a simple frame in one plane.
- Three-plane fracture reduction and intraoperative or post-operative correction of fracture alignment is possible.

Technical features

- MRI compatible.
- Titanium and surgical steel.
- Carbon fibre.
- Reduces post-op pain.
- Swiss made.
- Made of high performance composite material providing.
- The high-performance composite materials are radiolucent (transparent to X-rays), alllowing better visualisation of the fracture.
- Maximum stability.
- Significantly reduced weight compared with other external fixation frames.
- High strength components result in frame configurations that are more compact than those of other systems.
- Short learning curve for the surgeon.
- Versality limited only by the anatomy.
- Configuration possibilities are limited only by the anatomy.
- Sterilisation boxed sets contain assorted components for construction of a virtually unlimited variety of frame configurations.
- Can be used for definitive or temporary fixation.

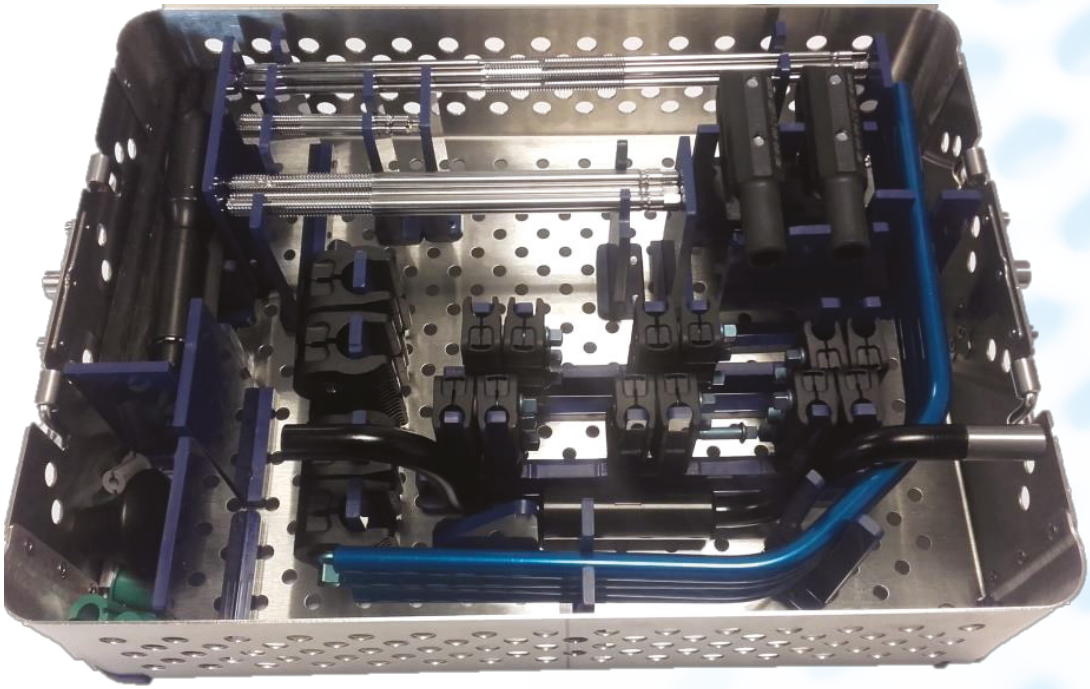
I. Presentation

Indications

External fixator for treatment of fractures of the foot and ankle.

Gex-Foot Kit composition The Gex-Foot Kit is available in two configurations:

- Simple Kit (material for one Gex-Foot assembly)
- Double Kit (material for two Gex-foot assemblies)



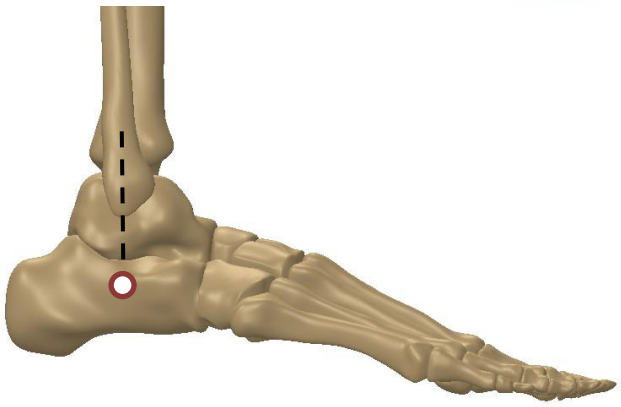
	REF	Designation
	REF 2030-1020	Transfixing pin 5/4 *250
	REF 2020-1025	Self drilling pin 5*170
	REF 2010-1020	Self drilling pin 3*70
	REF 1010-1046	9/9 connection
	REF 1010-1005	15/15 connection
	REF 1010-1010	Pin cluster clamp 15
	REF 1010-1053	9/4 reduction sleeve
	REF 1010-1052	9/3 reduction sleeve
	REF 1010-1026	15/9 reduction sleeve
	REF 1010-1088	Foot rod
	REF 1010-1064 or REF 1010-1065	Carbon bar (110 mm or 150 mm)
	REF 5010-1000	Drill brace
	REF 5015-1000	Screw handle

To properly use Gex-Foot, you have to respect the following surgical technique.

II. Surgical Technique

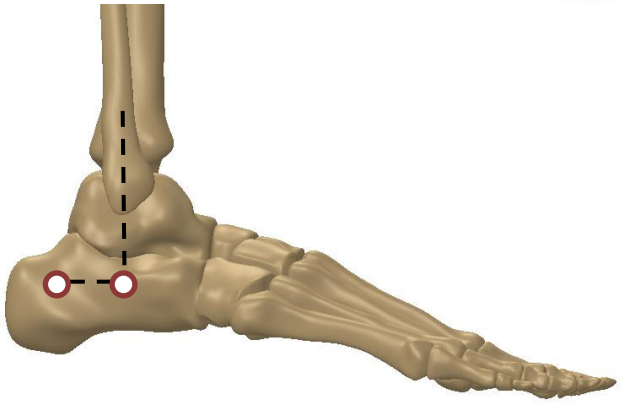
Step 1: Transfixing pins implantation
(manually with the drill brace or with a motor)

Implant the first transfixing pin in the calcaneus. Use the fibula as anatomical point of reference.



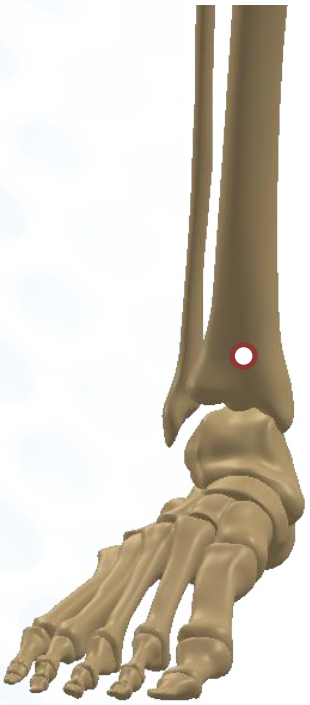
Implant the second transfixing pin in the calcaneus using the drilling guide. Use the first transfixing pin as reference, so that the two pins are aligned in the horizontal plan.

NB: the 2 pins are not necessary parallel in the vertical plan.

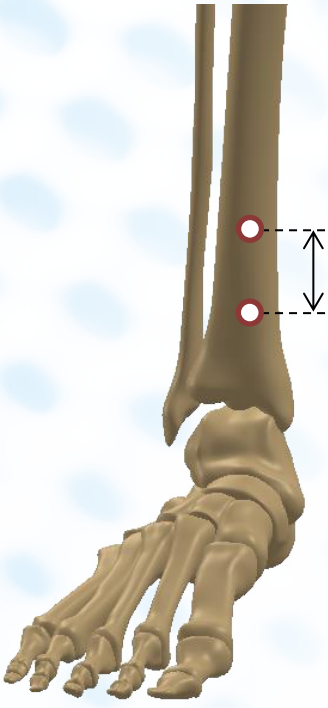


Step 2: Tibial pin implantation (manually with the drill brace or with a motor)

Implant the first tibial pin.



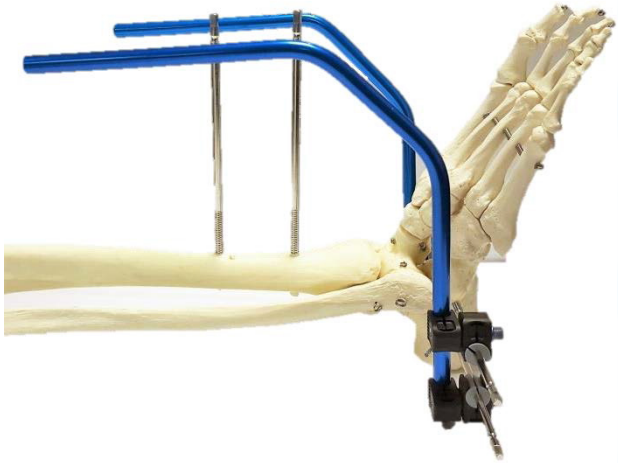
Implant the second pin in the tibia approx. 4 cm vertically above the first tibial pin. You can use the drilling guide.



Step 3: Gex-Foot assembly

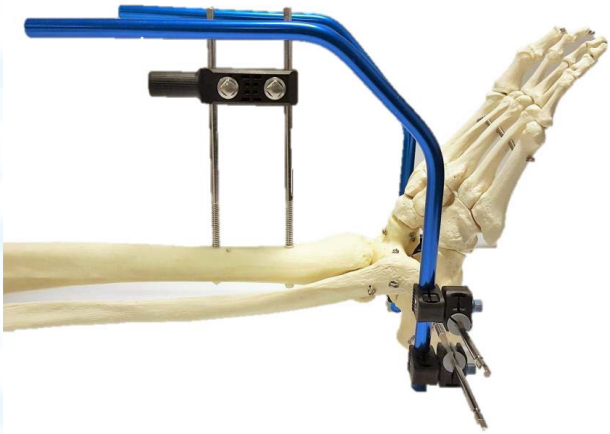
- Slide one grey reduction sleeve on each side of the two transfixing pin.
- Clip one 9/9 connection on each reduction sleeve (reduction sleeve on the screw side and jaws regarding space between the two pins).

- Clip the first foot rod and then the second. Correctly position each rod (adequate space between foot and rod, connections positions on the rod…).
- When the rods are correctly positioned, screw the connection screw (with the screw handle) and lock the connection position on the rods.



- Prepare an assembly identical to the following picture (with one carbon bar (110mm or 150mm depending to space between the two foot rods), two 9/9 connections and one 15/9 reduction sleeve).

- Unscrew a little bit the two screw of the pin cluster clamp (with the drill brace) and slide it on the two tibial pins.

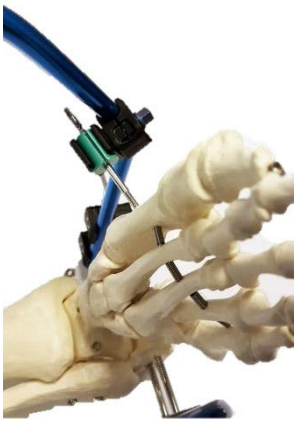


- Install the carbon bar assembly by clipping one 9/9 connection on each foot rod. NB: be sure that the carbon bar is positioned between the patient leg and the foot rods (not behind the foot rods).
- Clip the cylindrical extremity of the pin cluster and the 15/15 connection, then clip the green reduction sleeve and the 15/15 connection.

- Adjust the position of the carbon bar assembly to obtain the optimal reduction/traction/position of the fracture(s) and lock this position by screwing 9/9 connections screws (with the screw handle) and 15/15 connection screw (with the drill brace).

Step 4: Gex-Foot assembly locking
(manually with the screw handle or with a motor)

- Lock the Gex-foot assembly by screwing a metacarpal pin (3*70 Self drilling pin) in the big toe.
- Slide a small green reduction sleeve on the pin and clip a 9/9 connection.
- Clip connection on the rod, adjust the position of the connection along the rod and lock it position by screwing the connection screw (with the screw handle).



Gex-foot is correctly positioned, fracture would consolidate.

Notes:

ADRIAN MED, s.r.o.
Lazovná 53
974 01 BANSKÁ BYSTRICA
info@adrianmed.eu
www.adrianmed.eu

Gexfix external fication orthopeadics

Gexfix SA
Avenue de la Praille 50
CH - 1227 Carouge

SWISS CE 0459