



M3MED

Surgical Technique **Digitalis**

5 Metacarpophalangeal implants



Osteoarthritis
Rheumatoid arthritis
Destroyed articular surfaces
Ankylosed joints or with limited range of motion
Non-functional joint due to inadequate bony alignment

 **BRM**
Extremities[®]

The following guidelines are indicative; it is responsibility of the surgeon to evaluate the adequacy and the use of this technique according to his experience and his medical skills.

1 Articulation exposure

Make a 5 cm longitudinal incision along the back of the metacarpophalangeal joint (MCP). Divide the capsule lengthwise and dissect it to expose the articulation, preserving as much as possible the capsule for later repair. Continue the dissection to visualize the dorsal base of the proximal phalanx and the metacarpal head with the collateral ligament.



2 Articular surfaces osteotomy

Resect the metacarpal head at the distal end and the base of the proximal phalanx, using a micro-oscillating saw perpendicular to the long axis of the metacarpal shaft. Remove any osteophytes or sharp spurs from the joint.



3 Size choice

Starting from the smallest size, insert the test spacer located inside the instruments supplied with the device, test it and choose the one that best fits anatomically within the joint. Check the perfect adhesion of the spacer to the surface of the resected bone planes, checking the mobility, alignment and stability of the implant.

④ Preparation of the medullary canals

Manually locate the metacarpal and proximal phalangeal canals, through the use of a reamer. Once the canal has been identified, insert the rasp (mounted on the appropriate rasp holder) and rasp the relative medullary canals (regardless of whether you start with the metacarpal or the phalangeal one), taking care to keep the upper, lateral and medial edges of the rasp parallel with the corresponding edges of the relevant bone portions. To avoid rotation during broaching, use a feed-retract scraping method. Advance until reaching the depth corresponding to the chosen size, clearly indicated on the rasp provided within the supplied instruments.



⑤ Final implant

Insert the final implant after the size assessment. At this stage it is also possible to use the test spacers to confirm correct sizing.



⑥ Wound closure

Use one or two tension sutures to have the extensor tendon positioned directly over the midline of the dorsal portion of the metacarpophalangeal joint. Wrap the radial cap and sagittal fascia. Move the joint again to ensure there is no extensor tendon subluxation from 0 to 90 degrees of flexion. Irrigate the wound.

Post-operative care: Bandage the finger and keep it in the rest position for 3-4 weeks, before starting the rehabilitation treatment.

Removal: If implant removal is required, make a dorsal incision along the affected joint (proceeding medially to the extensor tendon) and perform a full thickness capsulotomy. Remove the silicone component, with the help of a needle holder, and perform a revision of the implant or an arthrodesis operation depending on the most appropriate clinical indication for the case. Re-suture the capsule and the patient's skin.

IMPLANT**CODE****DESCRIPTION**

DDG3T01001	DIGITALIS MCP Spacer – Size 1
DDG3T01002	DIGITALIS MCP Spacer – Size 2
DDG3T01003	DIGITALIS MCP Spacer – Size 3
DDG3T01004	DIGITALIS MCP Spacer – Size 4
DDG3T01005	DIGITALIS MCP Spacer – Size 5

Main contraindications

- Inadequate musculo-tendon and skin system
- Inadequate neuro-vascular system
- Bone demineralization at a significant stage
- Inadequate bone stock
- Child patient
- Infection in progress and active sepsis

INSTRUMENTS**CODE****DESCRIPTION**

SET.DIGITALIS	Digitalis complete Instruments Set
DDGI000001B	Digitalis instruments sterilization box (empty)
DDGI203000	Digitalis Handle
DDGI201003	Digitalis MCP Multisize Trial
DDGI201004	Digitalis PIP Multisize Trial
DDGI201001	Digitalis MCP Reamer
DDGI202001	Digitalis MCP Rasp
DDGI201002	Digitalis PIP Reamer
DDGI202002	Digitalis PIP Rasp
DDGI201013	Silicone MCP Digitalis trial - size 1
DDGI201023	Silicone MCP Digitalis trial - size 2
DDGI201033	Silicone MCP Digitalis trial - size 3
DDGI201043	Silicone MCP Digitalis trial - size 4
DDGI201053	Silicone MCP Digitalis trial - size 5
DDGI201014	Silicone PIP Digitalis trial - size 1
DDGI201024	Silicone PIP Digitalis trial - size 2
DDGI201034	Silicone PIP Digitalis trial - size 3
DDGI201044	Silicone PIP Digitalis trial - size 4