

SURGICAL TECHNIQUE





2 | Hinge Plate Surgical Technique

The Hinge Pediatric Plating System[™] is an articulated plate used to guide growth and deformity correction. Indicated in children and adolescents with deformities such as genu varum and genu valgum, it includes one plate and two screws. By fixing the plate on either side of the physeal plate, axial growth can be controlled and angular deformity corrected.

Plates and screws are manufactured in medical grade Stainless Steel (316L as per ASTM F138). The plate is provided in three different sizes with distances between the anchoring points of the screws of 12, 16 and 20mm. The screws are provided in three different lengths of 25, 30 and 35mm.

Cat. #	Implant Components	
HPI012	Small Hinge plate 12 mm	
HPI016	Medium Hinge Plate 16 mm	
HPI020	Large Hinge Plate 20 mm	
HPS025	Screw 4.5 x 25 mm	
HPS030	Screw 4.5 x 30 mm	
HPS035	Screw 4.5 x 35 mm	

Developed in collaboration with:

Daniel Green, MD, FACS Pediatric Orthopedic and Scoliosis Services Hospital for Special Surgery, NY, NY USA

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Pre-Op Planning

A careful preoperative planning and radiological analysis should be used to define the CORA, plane, direction and magnitude of the deformity intended to correct.

Hinge Plate and Screws Selection

The device is selected according to the patient's growth plate height and location to prevent invasion or damage of the physis. These variables define the plate size and screw length.

Initial location for placement of the Hinge Plate is achieved by inserting a guiding Guide Wire to localize the growth plate under fluoroscopic imaging (C-Arm). The Guide Wire should be inserted considering that the centerline of the Hinge Plate will be placed approximately at 6.5mm (1/4") from the Guide Wire.



The Template is placed over the growth plate using the Croc Holder that is guided by the previously positioned Guide Wire.



Release the Template and verify proper seating over bone surface and alignment with growth plate through C-Arm.





Define screw location by placing a second Guide Wire with the aid of the Dual Drill/Wire Guide at an angle away from the growth plate to avoid damage. Check position before drilling under C-Arm. Using the cannulated drill bit, prepare screw hole to the depth indicated by the selected screw length.





Once the first hole is drilled, proceed with same method for second hole.

Having both holes perforated proceed to remove the Template.



Proceed to position the Hinge Plate by using the Croc Holder assisted by the guiding Guide Wire.

Once the Hinge Plate is secured, the procedure is concluded by removing the guiding Guide Wire followed by the Croc Holder. Assure proper implant seating over the bone surface, avoiding periosteal damage, and check screw final position before closing.

SURGICAL INSTRUMENTATION

Description	Item Number
Croc Holder	HPH100
Dual Guide	HPDG110
Template 12 mm	HPT112
Template 16 mm	HPT116
Template 20 mm	HPT120
Drill 3.0 mm	HPD130
Guide Wire	HPW150
Screw Driver	HPSD160
Case	HPC200



Notes	

- **CAUTION:** Federal law restricts this device to sale by or the order of a Physician.
- **CAUTION:** Devices are supplied Non-Sterile. Clean and sterilize before use according to instructions.
- **CAUTION:** Implants components are single-use. Do not reuse.
- **CAUTION:** Only those instruments and implants contained within this system are recommended for use with this technique. Other instruments or implants used in combination or in place of those contained within this system is not recommended.
- **NOTE:** This technique has been provided by one of our medical advisors only as guidance and it is not intended to limit the methods used by trained and experienced surgeons.

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