

INSTRUCTIONS FOR USE

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STERILE R

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ENDED

3-9 years	9-12 years	Age
Adjust to 14mm	18mm	Proximal Tibia

- ll protoc skin at the ve the NIO-
- action site following institutional protocols. Open pack and remove the NI artients 9-12: The device is ready to use. Autients 3-9: Dial the red stabilizer base until it stops. Place the designated location arrow (R for patient's right leg. L for patie teg) on the prominent aspect of the Tibial tuberosity with the location rows pointing upwards towards the knee and parallel to the long axis of stibia. This aligns the device so the insertion site is medial to the Tibial
- safety cap and press the device against the skin. While maintaining dov pressure, pull the trigger wings upward. This action will activate the device because the stabilizer base against the patient and separate by lifting to device upwards.

 7. Hold the red stabilizer hab in place while pulling out the trocar. The transmoval notch on the distal end of the NIO-P can be used to assist in removing the trocar from the cannula. Place the trocar into a sharps con.

 8. If indicated, aspirate bone marrow. Always confirm suppose the process. tuberosity).

 4. Hold the device by the textured dots and uniown v.,
 cap 90° in either direction.

 5. Note: Two-handed control should be maintained throughout the
 procedure. Place your non-dominant hand on the textured dots located
 on the lower part of the NIO-P and position the NIO-P 90° to the surface of
 the skin at the insertion site. Place the palm of your dominant hand over the
 sately cap and press the device against the skin. While maintaining downward
 pressure, pull the trigger wings upward. This action will activate the device.

 ^ ^~~in the stabilizer base against the patient and separate by lifting the
- ar. The trocar contair
- If indicated, aspirate bone marrow. Always confirm successful needle ceement per your protocol. Note: By holding the stabilizer hub, initial stabilizer position when connecting / disconnecting any lue initial stabilizer position when connecting / disconnecting any lue ik line / syringe from cannula.

 After confirming placement, affix the stabilizer base to the limb. It is commended to use the NIO Fixation to affix the stabilizer base. Connect are normal disconnections at lift the port is open, cover the insertion site with a sterile
- andard infusion set. If the port is sclusive dressing.

 D. REMOVAL INSTRUCTIONS: Rase by pulling upward. Dispose usertion site with a sterile occlusive. Remove the cannula and needle using a biohazard container. Cox sive dressing. stabiliz wer the

IO DESIGN
The NIO-P is a
sifety mechar
aximizing ca regive ď ; single cation a tient the



S FOR USE: r Pediatrics is , as an alterna ative t to IV d to prov / access e 3-12 ye /ide intra s during ears old ess in the The device

- COMMENDATIONS: o ensure proper pene Ž ф the
- row's indication follow the diruction or sectly assess the cted method to set pe the most effective per ation depth, ration depth ac , ⊊ ordi g 5 X

- Reassess (O site immediately after step 8 (confirm needle placement).

 It is recommended to frequently monitor the limb every 10 minutes for the first half hour or longer after beginning of drug administration.

 Use a pressure bag for optimal infusion rates.

 Continue to monitor extremity for complications on a regular basis, especially pre and post infusion. Prior to drug administration, the needle should be verified for placement and patency by confirming its stability in the bone. Beside Doppler ultrasonography may be useful to ascertain IO placement and flow.

 For conscious patients, consider local anesthesia such as lidocaine per institutional protocols.

 The IO catheder should be removed within 24 hours (depending on protocols Needles should be removed once permanent venous access is established. the needle stability in ascertain IO

 - bending on protoco ess is established.

▲ WARNINGS:

• Do not aim the NIO-P toward the joint space or epiphyseal plate. • Discontinue infusion if any signs of infiltration are apparent, including tissue swelling around the insertion site. • The NIO-P contains sharp parts that should be disposed of in an appropriate container for disposed medical biohazard waste. • The use of the NIO-P is restricted to skilled, authorized medics, nurses, paramedics and doctors who are trained to use the device. • Do not use if package is damaged. • The device must not be reused or re-sterlized. Reusing this disposable device might lead to infection, mechanical failure, or harm to the operator and/or patient. • When using any intraosseous device, the possibility of air embolism exists. • Metal needles are not MRI compatible. • Metal needles may cause scatter artifacts on computed tomography (CT) scans • The safe use of the NIO-P in patients with Osteoporosis, Osteopetrosis, Osteo

- ECOMMENDED STORAGE CONDITI
 The NIO-P device should be stored at
 The packages should be handled with TONS: It 10-22 C° In care when

CONTRAINDICATIONS

Do not use the device if any of the follow the site location • Tumor • Abnormalities mperfecta, osteopetrosis, osteoporosis wing are present: • Skin infection at es of bone strength (e.g. osteogenesis is) • Osgood-Schlatter disease is intracsseous insertion/failure on the sintracsseous insertion/failure on the wious orthopedic procedures near the in the same extremity or the selected atomical landmarks or excessive tissue

wious intraosseous
Previous orthopec
within the same extr