

# NIO

## Next-Generation IO<sup>®</sup>

### Proximal Humerus Reference Guide

(Hand hygiene, PPE, and cleanse site, per institutional protocol)

#### Arm Positioning ▶

Use either of the following methods:

- 1) Adduct the arm with hand over umbilicus  
OR
- 2) Internally rotate the arm to expose the greater tubercle of the humerus



Adduct patient's arm with hand over umbilicus.



Internally rotate the arm—rotate the hand so the palm is facing outward with the thumb pointing down.

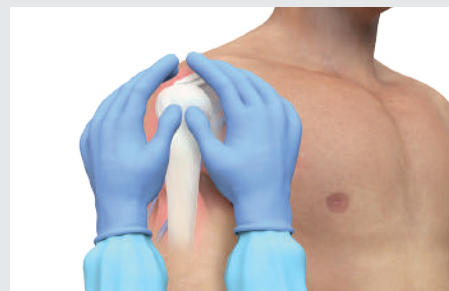
#### ▼ Landmarking



1. Adduct the patient's arm and locate the greater tubercle, next to the head of the humerus.



2. With one hand, bisect the arm at the deltoid. With the other hand, bisect the axilla anteriorly.



3. With your thumbs, palpate the surgical neck of the humerus.



4. Move 1cm (0.5in) towards the greater tubercle.



5. Place your finger at the insertion site.



6. With your non-dominant hand, hold the NIO-A by the textured dots and position the device at the insertion site, at a 90° angle to the skin.

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