

Jamshidi® disposable bone marrow biopsy/aspiration needle

Directions for use reference

These instructions are to be used only as a reference.

Read the *Directions for use* that accompany the product for more detailed instructions.

1. Introduce the needle through the incision and, using firm pressure, slowly advance the needle while rotating it 45° in an alternating clockwise/counter-clockwise motion. **(A)** Entrance into the marrow cavity is generally detected by decreased resistance.

2. Unscrew the cap, and pull the stylet out of the handle.

3. With the stylet removed, slowly advance the needle with a slight clockwise/counter-clockwise motion until adequate marrow is obtained.

Note: Sample architecture may be damaged with excessive clockwise/counter-clockwise movement.

4. With a quick motion, **rotate the needle 360° 10 times to the right and 10 times to the left while applying light downward pressure** to allow the tapered tip to help sever the biopsy specimen.

5. Pull the needle back 2 or 3 mm and, with minimal pressure, direct its tip at a slightly different angle. Advance the needle 2 or 3 mm farther, and rotate it 360° two more times. This step helps complete the separation of the specimen before the needle is withdrawn. **(B)**

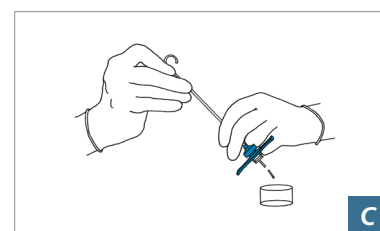
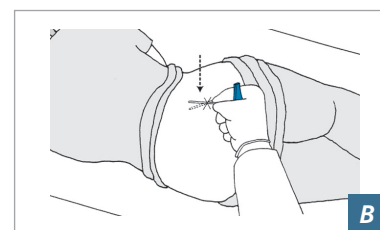
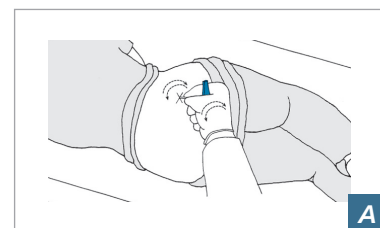
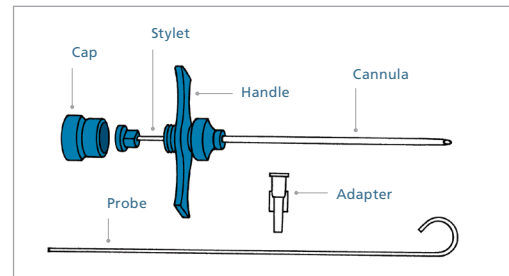
Caution: Applying too much pressure while redirecting the needle may bend the needle. Redirecting the needle beyond 20° may cause the needle to bend or break.

6. Slowly remove the needle with the same 45° clockwise/counter-clockwise motion.

7. Insert the probe into the distal cannula tip to remove the biopsy specimen. **(C)**

Caution: For single use only. Reuse may result in a non-functional product or contribute to cross contamination.

For product information and technical assistance, please call 800.653.6827.



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