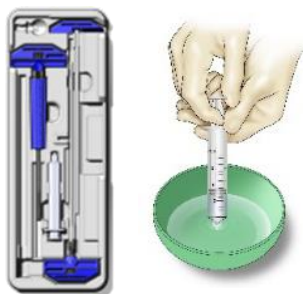


Bone Marrow Aspiration Process Steps

Marrow Cellution™ MC-RAN-8, MC-RAN-11, MC-RAN-11STS

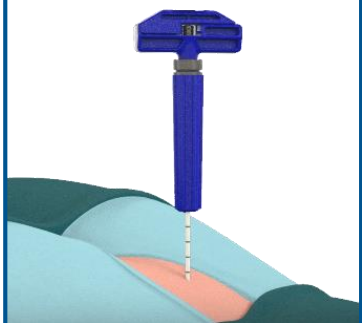
1

Heparin Flush:
Rinse all components with heparin
(2,000 Units/ml)



2

Insert Access Needle just past
cortex into medullary space.
Ensure longitudinal orientation.



3

Remove Sharp Stylet, attach Syringe,
draw 1ml marrow to test proper
localization of Access Needle tip



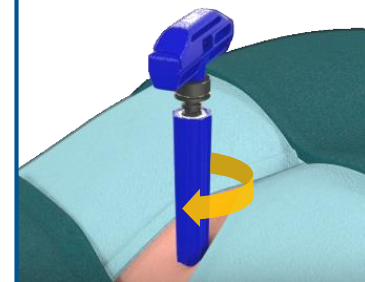
4

Remove Syringe, insert Blunt
Stylet. Continue to advance Access
Needle to desired depth



5

Rotate Guide Grip to skin level and
remove Blunt Stylet



6

Insert Aspiration Cannula with Stylet
and advance until desired depth



*Ensure Stylet is inserted
when advancing*

7

Hold Guide Grip and proximate
handles by turning lower handle
counter-clockwise to secure Luer
Connector



Ensure Stylet is inserted

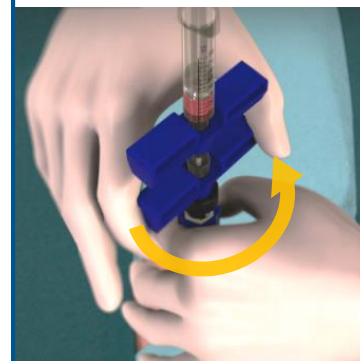
8

Remove Stylet, attach syringe,
draw 1ml marrow



9

Rotate lower handle 180°-360°
counter-clockwise to raise
Cannula tip



10

Draw 1ml marrow



11 Repeat steps 9 & 10 until desired volume is attained