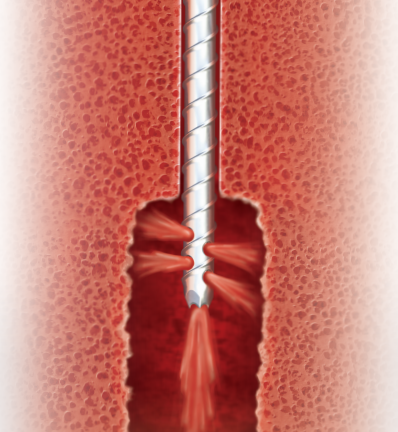


VORTEX

Threaded Bone Marrow Recovery Needle



Product Overview

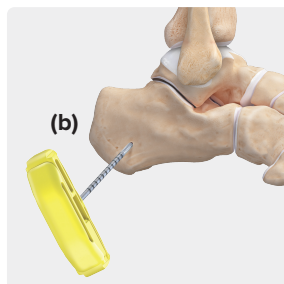
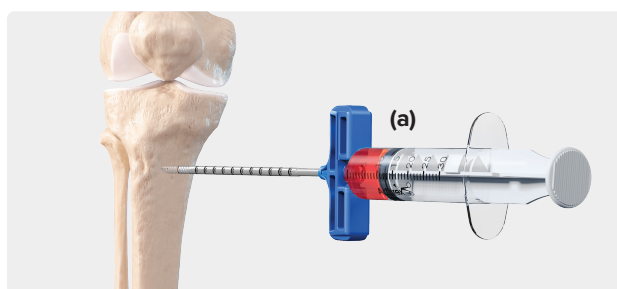
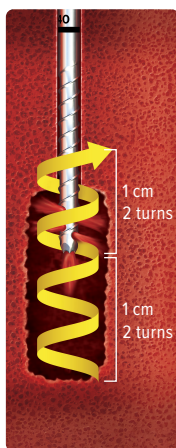
The Vortex™ needle features a unique patent-pending design with a threaded tip and vent holes that allow surgeons to precisely control the depth and direction of aspiration, optimizing the recovery of osteoprogenitor cells. It is available in both 8-gauge and 13-gauge sizes to support various anatomical approaches, including the recovery of bone marrow aspirate from the iliac crest, proximal tibia, proximal humerus, and calcaneus.

Features and benefits

- › Threaded tip and vent holes allow for precise depth and directional control
- › Rotational adjustment helps regulate aspiration depth
- › 8-gauge **(a)** and 13-gauge **(b)** diameters accommodate harvesting from a variety of anatomical sites and are available in both open- and closed-tip configurations
- › Power adapter (available separately) simplifies attachment to power tools
- › Tip design maximizes osteoprogenitor cell yield¹

Technical Pearls

- › To maximize the concentration of osteoprogenitor cells collected, it is recommended to change the depth of the needle after every 2 cc of aspiration using alternating ½ and 1½ turns of the needle
- › The first 2 cc of aspiration at any one depth and location have the highest concentration of osteoprogenitor cells¹
- › The use of a C-arm is recommended to assist with proper targeting



Ordering Information

Vortex Threaded Recovery Needle	
Threaded BMA needle, 8 ga, closed tip	AR-1101TH-8CT
Threaded BMA needle, 8 ga, open tip	AR-1101TH-8OT
Threaded BMA needle, 13 ga, closed tip	AR-1101TH-13CT
Threaded BMA needle, 13 ga, open tip	AR-1101TH-13OT
Vortex needle power adapter	AR-1001-TH-PWR
Angel® System	
Angel BMA processing kit, 8 ga closed tip, w/o ACD-A	ABS-10062-TH8CT
Angel BMA processing kit, 8 ga open tip, w/o ACD-A	ABS-10062-TH8OT
Angel BMA processing kit, 13 ga closed tip, w/o ACD-A	ABS-10062-TH13CT
Angel BMA processing kit, 13 ga open tip, w/o ACD-A	ABS-10062-TH13OT
Literature	
Angel system and Vortex needle	LB1-000367-en-US

Reference

1. McLain RF, Boehm CA, Rufo-Smith C, Muschler GF. Transpedicular aspiration of osteoprogenitor cells from the vertebral body: progenitor cell concentrations affected by serial aspiration. *Spine J.* 2009;9(12):995-1002.



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