

# Bonopty®

## Providing manual control when sampling close to the vertebral artery

### Case history

64 year old man with a history of prostate cancer and lytic lesion in the right lateral mass of C1.

### Biopsy details

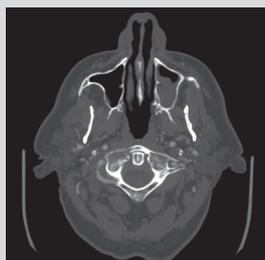
The patient was treated under general anesthesia to avoid motion. The vertebral artery was located using IV contrast. Using CT fluoroscopic guidance, the Bonopty® 12G Penetration Set was advanced through the posterior margin of C1 just inferior to the vertebral artery. A core biopsy was then performed with the Bonopty® 13G Biopsy Set. When only blood was obtained, a soft tissue core was obtained using a 16G biopsy gun. The patient was discharged the same day with no neurologic deficit.

### Analysis of the sample

A small fragment from the soft tissue core revealed metastatic prostate cancer.

### Comments

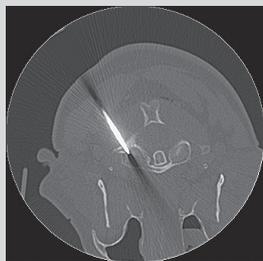
A manual drill, as provided with the Bonopty® Penetration Set, rather than an electric drill was chosen to avoid the risk of transmitting torque to the immediately adjacent vertebral artery. The Bonopty® Penetration Set allowed fine control of needle placement, avoiding the vertebral artery and penetrating dense cortical bone. The large gauge (12G) penetration cannula allowed use of a large gauge soft tissue needle to obtain a diagnostic sample of the lytic lesion.



The axial contrast enhanced CT reveals the vertebral artery posterior to the right lateral mass of C1. A pathologic fracture is present



The coronal spine image demonstrates the lytic lesion on the right



Bonopty® 12G Penetration Set has been advanced through the cortex



Soft tissue biopsy needle obtains a sample from the lesion

Acknowledgements:  
Courtesy of David Sacks, MD, Reading Hospital, West Reading, PA, USA

29229 Rev. 01 2012-12

Head Office:  
AprioMed AB  
Virdings Allé 28  
SE-754 50 Uppsala, Sweden  
Phone: +46 18 430 14 40  
Free Fax (Int'l): +46 770 339972

E-mail: [info@apriomed.com](mailto:info@apriomed.com)  
[www.apriomed.com](http://www.apriomed.com)

US Sales Office:  
AprioMed, Inc.  
2 Palmer Dr, Suite 1  
Londonderry, NH 03053, USA  
Phone: +1 603 421 0875  
Fax (US toll free): 866 239 1797