

Case Study

Pelvic Bone Biopsy using the Cube Navigation System

Summary

Biopsy of suspected bone metastases in the right sided Os Ilium using the Access Cube as a needle holder and for navigational support.

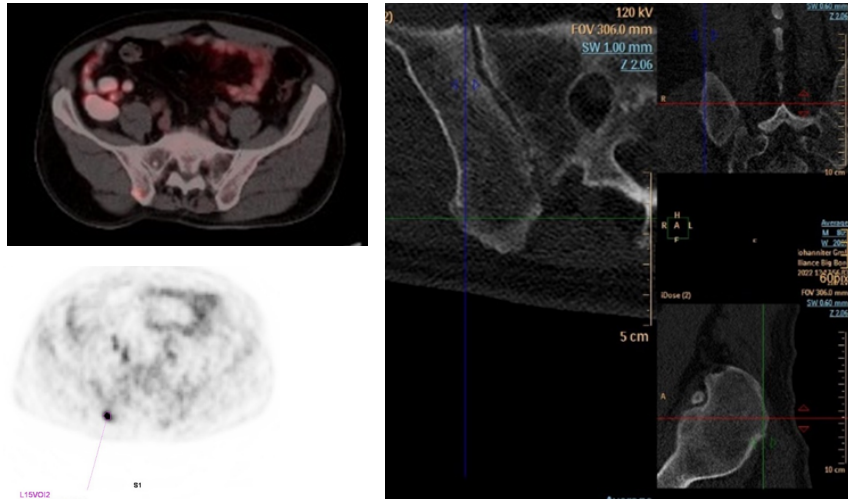


Figure 1: Initial scans of the suspected metastasis



Patient Profile

73 year old male with a history of PSMA-expressing prostate carcinoma.

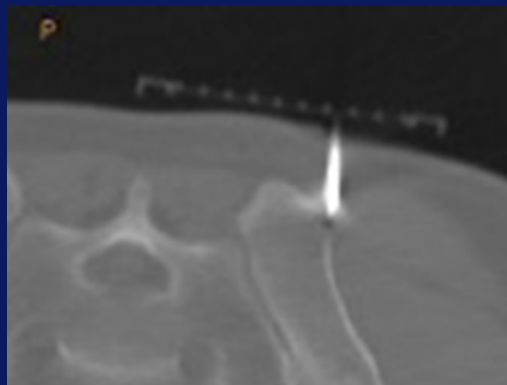


Figure 2: Control scan with the Access Cube visible on the patient and the needle in the target

Procedure

A PSMA PET/CT examination revealed a suspected metastasis on the right side of the pelvis (Figure 1). A CT-guided biopsy was requested.

Under sterile restraints and after local anesthesia, the CT-guided puncture was performed using the Access Cube. The Cube Navigation System was used to determine the interventional trajectory. The Access Cube was then used as a needle holder, enabling sustained, exact placement of the 11G coaxial system in this superficial lesion. Removal of four macroscopically representative tissue cylinders was performed with an 18G biopsy needle. Samples were preserved and sent to histopathology. A final control scan shows the needle in the target (Figure 2).

Result

The biopsy was performed without complications. There were no signs of postoperative bleeding or infection at the wound site and the patient was transferred to outpatient treatment. Histopathology confirmed the suspected diagnosis of a metastasis.

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