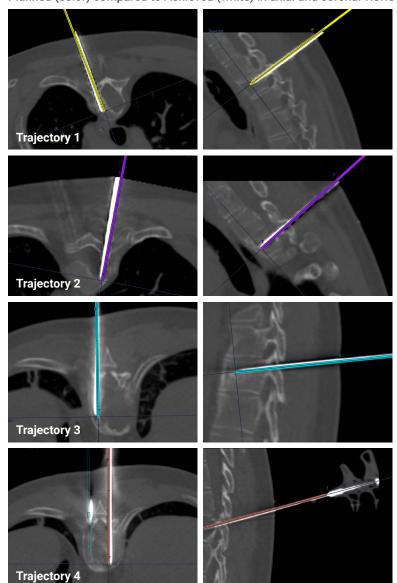


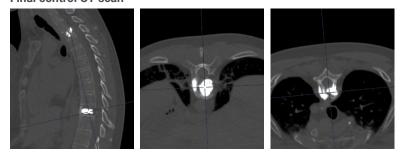
# Epione® robotic T3 and T10 vertebroplasty

Planned (color) compared to Achieved (white) in axial and coronal views

- Challenging trajectories with high angulations in vertebrae
- Trajectories right on target with mean lateral accuracy of 1.8mm



Final control CT-scan



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**Physician:** Dr. Deschamps, Interventional Radiologist **Institution:** Gustave Roussy, Interventional Radiology

Department

Location: Villejuif, France

#### **Background:**

T3 and T10 metastases from kidney cancer.

#### Approach:

The patient was treated in the prone position (head first), under general anaesthesia. Using the **Epione® System**, four introducers were placed with two inserted in T3 and two in T10 for cementoplasty.



Four trajectories with high angulations were planned in the vertebrae with Epione® Software. The Epione® Robotic Arm positioned automatically to the desired depth and location.

The **Introducer Guide** secured the guiding axis despite strong mechanical forces due to hammering.

## 2 Deliver

The physician inserted four introducers (*Thiebaud t'BM II 15cm 11G*). The four trajectories were achieved with mean lateral accuracy of 1.8mm. No robotic nor manual correction was required after intermediate control CT scan.

- Trajectory 1: 1.8mm lateral accuracy
- Trajectory 2: 1.7mm lateral accuracy
- Trajectory 3: 2.0mm lateral accuracy
- Trajectory 4: 1.8mm lateral accuracy

The physician then performed cementoplasty.

### **3** Outcomes

No adverse events had occured during the procedure.

