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Summary

PLATINUM FIDUCIAL SEEDS MADE IN HOUSE FOR EUS GUIDED IMPLANTATION

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UEG Week Vienna 2024 | Poster

Oesophagus

October 13, 2024

A single-center case series of 55 patients reports that in-house platinum seed fiducials for EUS-guided SBRT planning achieved 94.5% adequate placement with no adverse events and approximately 20-fold cost savings compared to commercial fiducials.

KEY POINTS

- 55 patients underwent EUS implantation of 176 in-house platinum seed fiducials (0.75mm wire cut into 3mm seeds, autoclaved) for abdominal cancers requiring SBRT between 2011 and 2024.
- Preplanning CT/MRI imaging identified 94.3% of fiducial signal voids, and 94.5% of patients had adequate placement for SBRT; three patients required repeat procedures (two for migration or close placement, one used spine tracking instead).
- No post-procedure infections or other adverse events occurred at 1-month follow-up, and the 5.7% migration rate was similar to rates reported for commercial fiducials.
- In-house production cost approximately 20-fold less than commercially available solid gold, gold coil, or solid platinum fiducials, and the authors recommend platinum seed fiducials for centers using fused CT-MRI imaging for SBRT planning.

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