Intraoperative injection of (99mm) Tc-nano-colloid for localization of non-palpable intra-testicular tumors in organ sparing surgery

Jose Manuel Ruiz Dominguez
Hospital Germans Trias i Pujol, Spain

Radical orchidectomy is the standard treatment for malignant testis tumors. Radical orchidectomy results in androgen deprivation, infertility and impaired psychological well being, especially in synchronous bilateral tumors, metachronous contralateral tumors or tumor in a solitary testis. According to the European Association of Urology Guidelines, if preoperative testosterone level is normal and the tumor volume is less than 30% of the testicular volume, organ preserving surgery can be performed. For non-palpable tumors, organ sparing surgery needs a precise intraoperative localization with high frequency ultrasound, especially for non-palpable tumors. We report two cases of non-palpable intra-testicular tumors successfully localized using (99mm) Tc-nano-colloid injected with intraoperative US and detected with a γ-ray detection probe. This method is easily reproducible and safe for the patient. This technique could guarantee complete excision of the tumor, especially if the mass is poorly delimited.

jmruizdominguez@gmail.com