

## **New Advanced Ablation Techniques for Thyroid Nodules**

**Jae Ho Shin**

Traditionally, ethanol injection and thermal ablation methods such as radiofrequency ablation and microwave ablation have been the primary minimally invasive treatments for thyroid nodules, with established safety and effectiveness. Recently, innovative ablation approaches including cryoablation and irreversible electroporation have shown encouraging outcomes, suggesting their potential role as alternative treatment modalities. This presentation will cover the fundamental mechanisms of cryoablation and irreversible electroporation, alongside their clinical uses, theoretical advantages, and case studies.