

Beyond 2D: How 3D Ultrasound Transforms Thyroid Volume Surveillance

Accurate thyroid volumetry is essential for diagnosing thyroid nodules and monitoring patients after thyroid ablation. In clinical practice, a 50% change in nodule volume during follow-up is considered clinically significant, making precise measurements critical. **With PIUR tUS Infinity, inter-observer variability can be reduced by up to 80%*.**

Challenges with Traditional 2D Ultrasound

Traditionally, thyroid volumetry has been performed using 2D ultrasound, which is subject to significant inter-observer variability. The ellipsoid formula often used in these measurements leads to higher observer variability since it approximates the true shape of the thyroid gland and nodules, making consistent and accurate measurement a challenge.



The Power of PIUR tUS Infinity: Reducing Variability

PIUR tUS Infinity is an add-on solution for your existing ultrasound, enhancing it with advanced 3D imaging. Through semi-automatic segmentation, this technology helps clinicians make more consistent assessments of both thyroid lobes and nodules.



Key Benefits of PIUR tUS Infinity



Reduced
Observer
Variability



Reproducible
Thyroid & Nodule
Measurements



Complete
Nodule
Documentation



Improved
Patient
Understanding

Clinical Study Results: A Clear Advantage

Object	PIUR tUS Infinity (3D Ultrasound)	Conventional 2D Ultrasound	Improvement
Lobes	-3.09% ± 16.75%	-15.57% ± 49.40%	80% Reduction in Inter-Observer Variability
Nodules	-1.94% ± 31.03%	-9.34% ± 71.53%	79% Reduction in Inter-Observer Variability

*A comparative study was conducted between PIUR tUS Infinity (3D ultrasound) and conventional 2D ultrasound to assess inter-observer variability. Two doctors independently performed measurements on 196 patients with 203 nodules using both devices, with the above results.



Conclusion:

Elevate Your Practice with 3D Ultrasound

PIUR tUS Infinity's 3D ultrasound technology offers a powerful solution to overcome the limitations of conventional 2D ultrasound.

By reducing inter-observer variability, improving reproducibility, and streamlining the measurement process, PIUR tUS Infinity helps clinicians deliver better results in thyroid volumetry.

Contact us today to learn how PIUR tUS Infinity can transform your practice with 3D ultrasound technology.



Transform Your Practice Today

Email us at sales@piurimaging.com

Full whitepaper available at <https://www.piurimaging.com/>