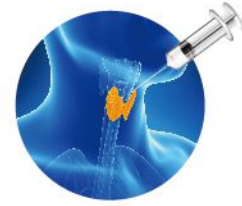


# AmCAD - UT<sup>®</sup>

Detection

# AmCAD - UT<sup>®</sup>

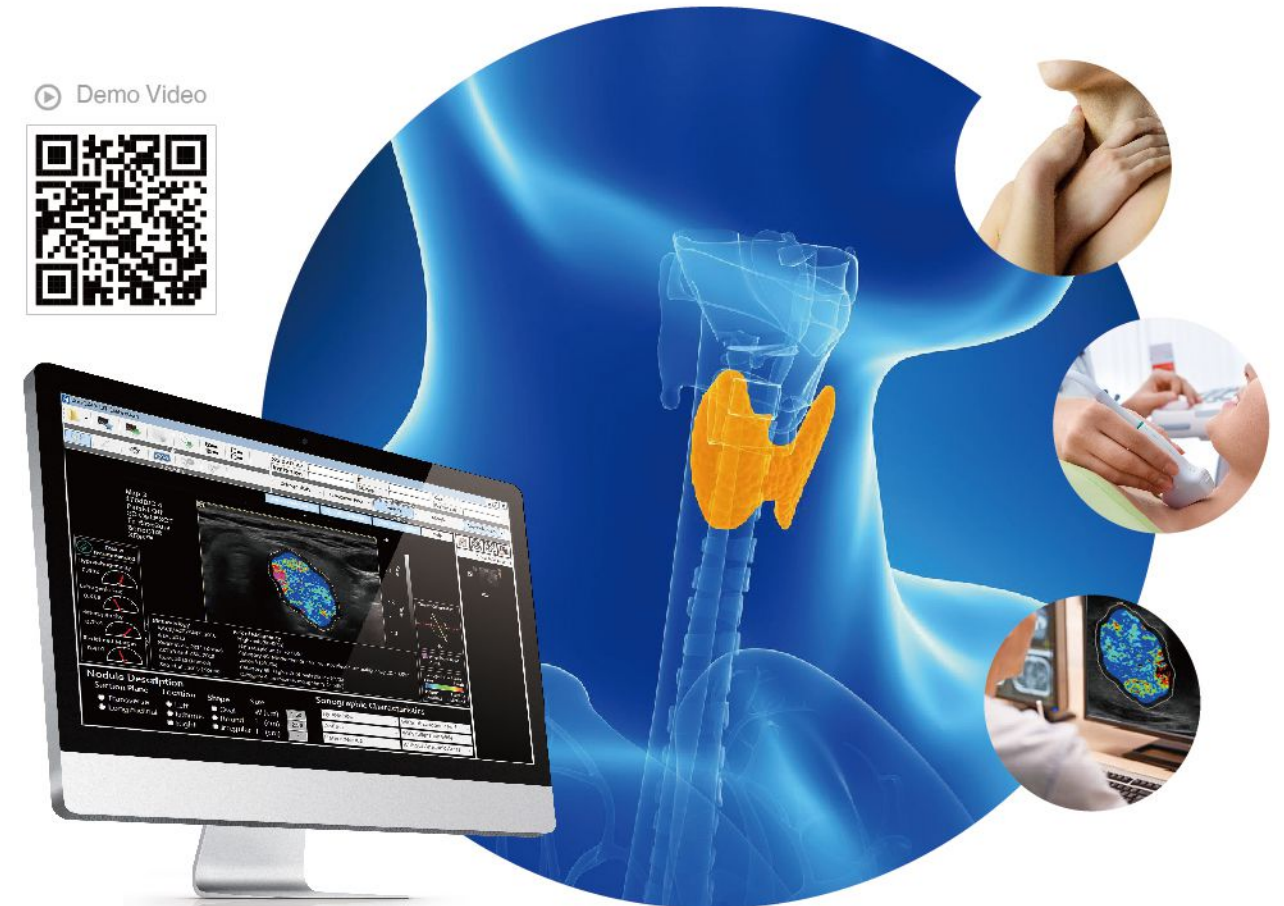
Detection



Fine Needle Aspiration



Demo Video



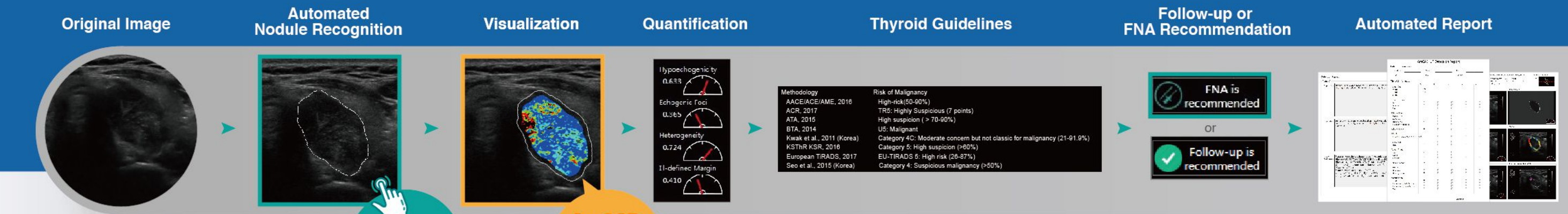
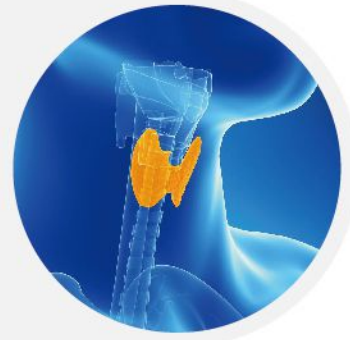
## World's First Ultrasound CAD for Thyroid Cancer Detection

- Automated Nodule Recognition
- Patented Technologies to Quantify and Visualize Sonographic Features
- Image Calibration Compatible with All Ultrasound Systems
- Effective Management for Continuous Follow-Up
- Automated Report Generation



### Current Issues on Thyroid Cancer Examination

- 70% inconsistent results among ultrasound readers
- 15% inadequate sampling
- 30% indeterminate results from biopsy
- 50% removed thyroid tissues diagnosed as benign
- Life-long medication after surgery



AmCAD - UT<sup>®</sup>  
AI Solution

One-click Nodule Recognition

AmCAD Patented Algorithms

### Features Visualization and Quantification



### Standalone Performance

#### Anechoic Area (Cyst)

Prior to subsequent feature analysis, cyst area in magenta will be excluded by AmCAD-UT.

#### Echogenicity (Hypoechoogenicity)

Darker color within a nodule indicates higher malignancy.

#### Echogenic Foci (Calcification)

More Red/Orange indicates higher malignancy.

#### Texture (Heterogeneity)

Higher color divergence indicates higher malignancy.

#### Margin (Ill-Defined Margin)

More Red/Orange indicates more indistinct margin (possibly higher malignancy).

#### Taller than Wide

Taller than wide indicates higher malignancy.

Index	Echogenicity (Hypoechoogenicity)	Echogenic Foci (Calcification)	Texture (Heterogeneity)	Margin (Ill-Defined Margin)
AUROC *	84.7%	91.5%	77.0%	68.6%
p-value **	<0.0001	<0.0001	0.0045	0.0014

\* Test the quantified values of cases against the Ground Truth determined by a panel of experienced specialists.  
 \*\* Difference between cases without and with presence of the sonography characteristic (statistically significant: p<0.05)