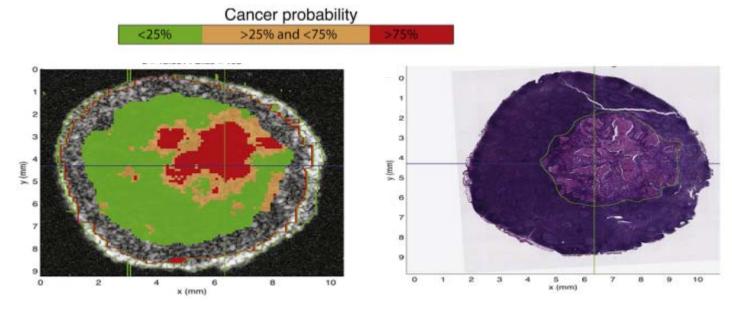
QUS-based Cancer Detection in Human Lymph Nodes

Primary- Cancer Type	Number Of All Lymph Nodes	Number Of Metastatic Lymph Nodes	Area Under the ROC Curve (AUC)	AUC 95% Confidence Interval	Sensitivity (%)	Specificity (%)
Breast	118	17 (14%)	0.83 ± 0.048	0.74 to 0.93	100 88	50 65
Colorectal	147	21 (14%)	0.96 ± 0.019	0.92 to 1.00	100 95	73 80
Gastric	36	6 (17%)	0.96 ± 0.030	0.88 to 1.00	100 83	72 90
Total	301	44 (15%)	0.90 ± 0.024	0.85 to 0.94	100 96	41 63

- 301 lymph nodes from 171 patients have been classified
- Detection of colorectal-gastric-cancer metastases is almost perfect
- Detection of breast-cancer metastases is quite good
- The most-important parameter for classification is scatterer size

QUS-based Cancer Detection in Human Lymph Nodes

Partially-metastatic colorectal-cancer lymph node



Partially-metastatic breast-cancer lymph node

