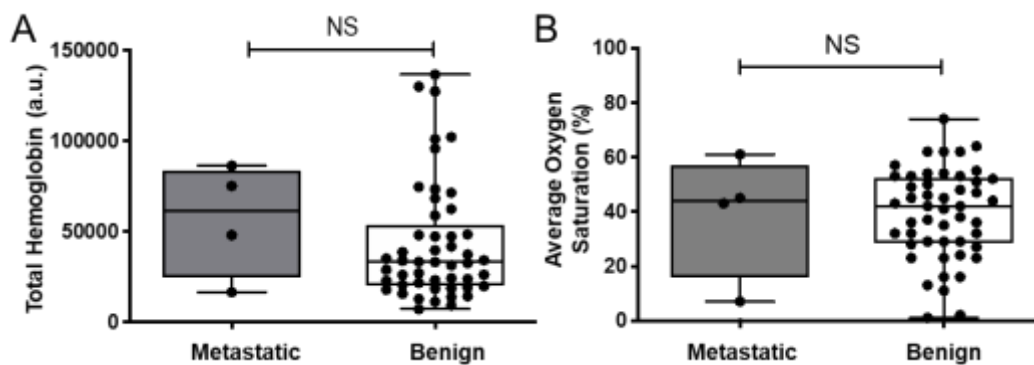


Supplemental Figure 1: Measured LN size of 53 LN from seven patients with head and neck cancer.

(A) From a total of 53 LNs measuring less than 10 mm in diameter, ultrasound determined the diameter in metastatic LNs was $6.8\text{mm} \pm 2.5\text{mm}$ vs. $3.7\text{mm} \pm 1.6\text{mm}$ for benign LNs ($P < 0.01$). (B) Correlation was found between the ultrasound determined area and area by histology ($R^2 = 0.83$, $P < 0.01$).



Supplemental Figure 2: Photoacoustic measurements of total hemoglobin and oxygen saturation in LNs.

No statistically significant differences in hemoglobin content or oxygen saturation were found between benign and metastatic LNs from patients with head and neck cancer.