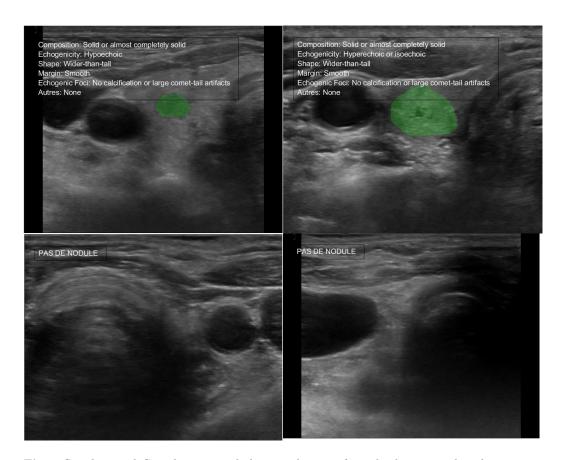
${\bf Table~1.~Supplemental:~Dataset~and~Active~Learning~strategy~testing~details}$

Dataset	Training	Test	Step	Max	Strategy	Repetitions	Repetitions	(Semi-
	Size	Size	Size	Size		(Supervised)	supervised)	
US Dataset	849	199	50	750	Random	20	20	
					RiggedDraw	20	19	
					$(\alpha = 5)$			
					RiggedDraw	20	20	
					$(\alpha = 25)$			
					RiggedDraw	19	19	
					$(\alpha = 50)$			
					LeastConfidence	19	19	
					KMeans	20	20	
					WAAL	N/A	19	
		624	50	750	Random	19	20	
					RiggedDraw	19	19	
Pneumonia	050				$(\alpha = 5)$			
MNIST	850				RiggedDraw	20	19	
					$(\alpha = 25)$			
					RiggedDraw	19	20	
					$(\alpha = 50)$			
					LeastConfidence	20	20	
					KMeans	20	19	
					WAAL	N/A	19	
					Random	19	17	
BreaKHis	850	364	50	750	RiggedDraw	19	18	
					$(\alpha = 5)$			
					RiggedDraw	19	21	
					$(\alpha = 25)$			
					RiggedDraw	19	19	
					$(\alpha = 50)$			
						20	18	
					KMeans	18	17	
					WAAL	N/A	16	



 $\textbf{Fig. 1.} \ \textbf{Supplemental: Sample annotated ultrasound images from the dataset, with and without nodules.}$

Table 2. Supplemental: Supervised learning AUBC values for different Rigged Draw weights, with * indicating p-values < 0.05 when compared to random selection.

Dataset	Measure	$\alpha = 5$	$\alpha = 25$	$\alpha = 50$
	Mean	0.639	0.639	0.642
US Dataset	Median	0.639	0.641	0.640
	STD	0.012	0.012	0.008
Pneumonia	Mean	0.916	0.919	0.917
MNIST	Median	0.915	0.920	0.918
MINISI	STD	0.007	0.004	0.005
	Mean	0.788	0.787	0.791*
BreaKHis	Median	0.784	0.793	0.793
	STD	0.020	0.022	0.017

 $\begin{tabular}{ll} \textbf{Table 3.} Supplemental: Semi-supervised learning AUBC values for different Rigged Draw weights, with * indicating p-values < 0.05 when compared to random selection. \\ \end{tabular}$

Dataset	Measure	$\alpha = 5$	$\alpha = 25$	$\alpha = 50$
	Mean	0.754*	0.754*	0.751*
US Dataset	Median	0.755	0.755	0.752
	STD	0.008	0.007	0.012
Pneumonia	Mean	0.923	0.924*	0.924
MNIST	Median	0.923	0.923	0.924
MINIST	STD	0.009	0.006	0.006
	Mean	0.799	0.805	0.804
BreaKHis	Median	0.798	0.802	0.805
	STD	0.019	0.014	0.018