

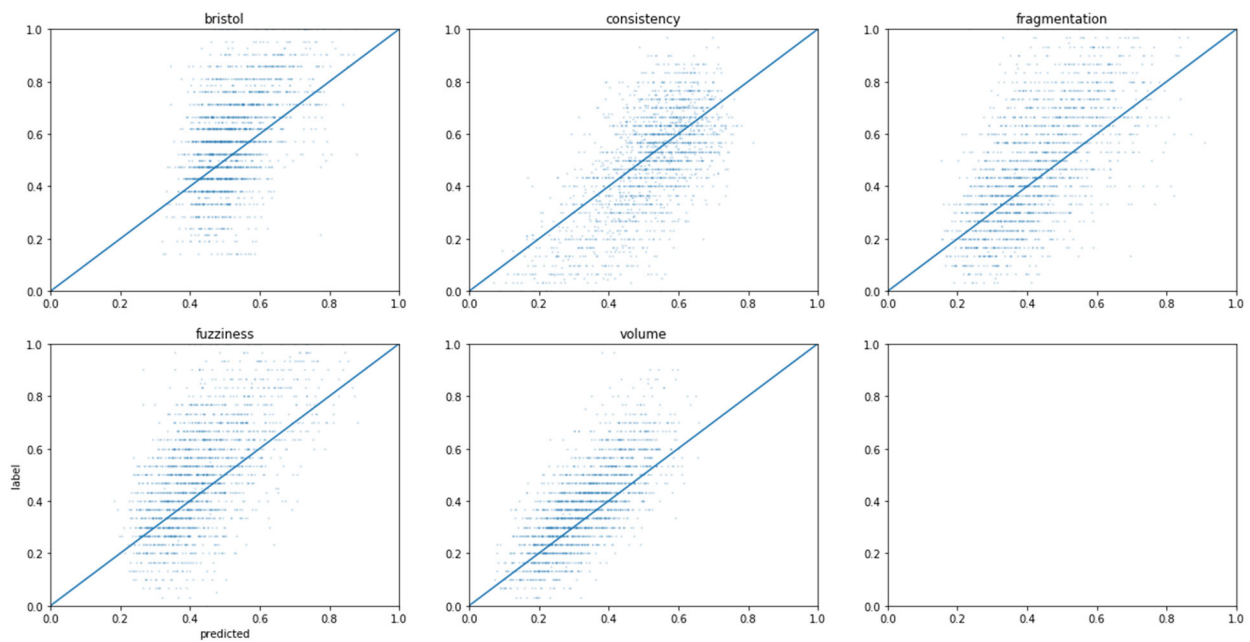
## Supplemental Figure 1. Focal Mean Square Error (MSE).

A) Labels vs model predictions. Image labels for each metric are shown on the y-axis against model predictions on the x-axis. Each metric's range is normalized to [0, 1].

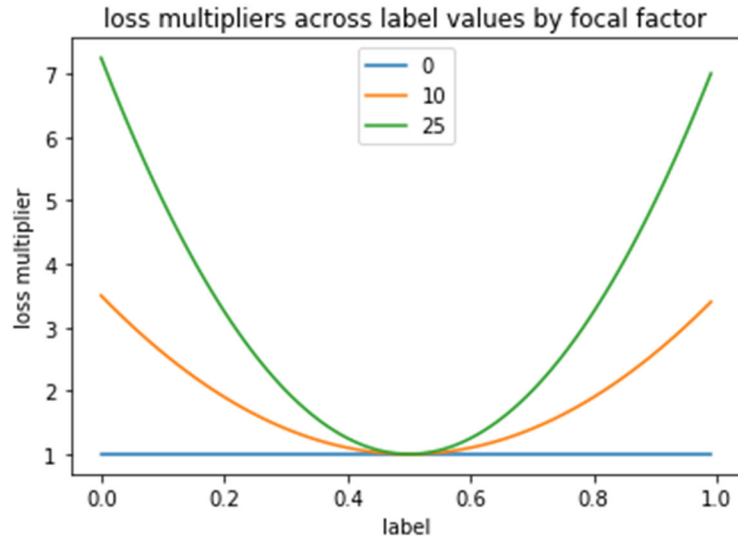
B) MSE focal factor loss weighting. Focal factor (color) is a model training hyperparameter, which affects the training importance of images near the edges of the label distribution for each metric (Methods). Higher focal factors (green) result in greater importance weighting of images with metric labels (x-axis) near the edge of the distribution, whereas no focal factor (blue) results in equal importance of all images.

C) Confusion matrix with MSE vs focal MSE with varying focal factor (FF).

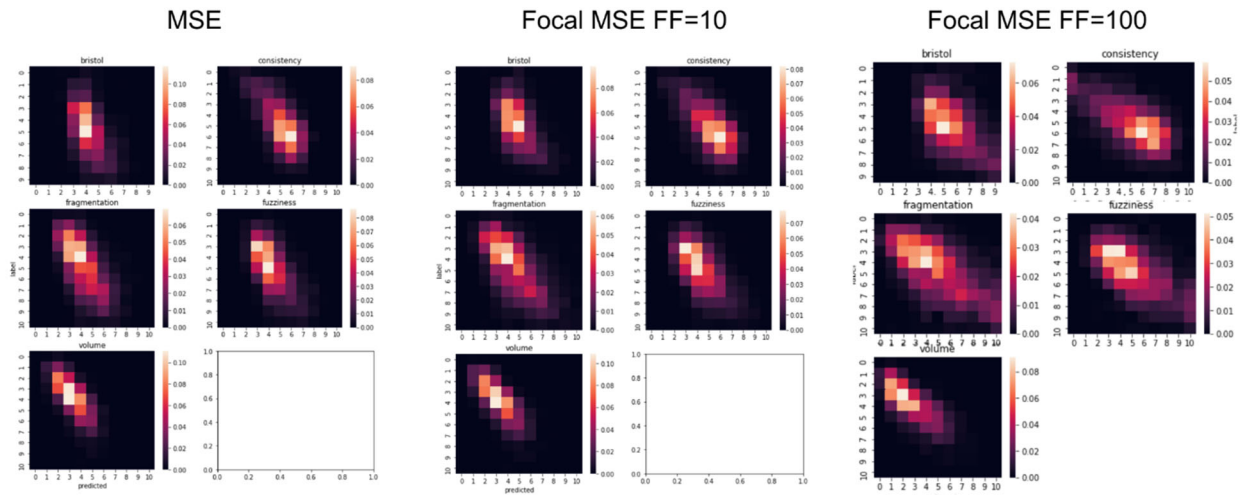
A)



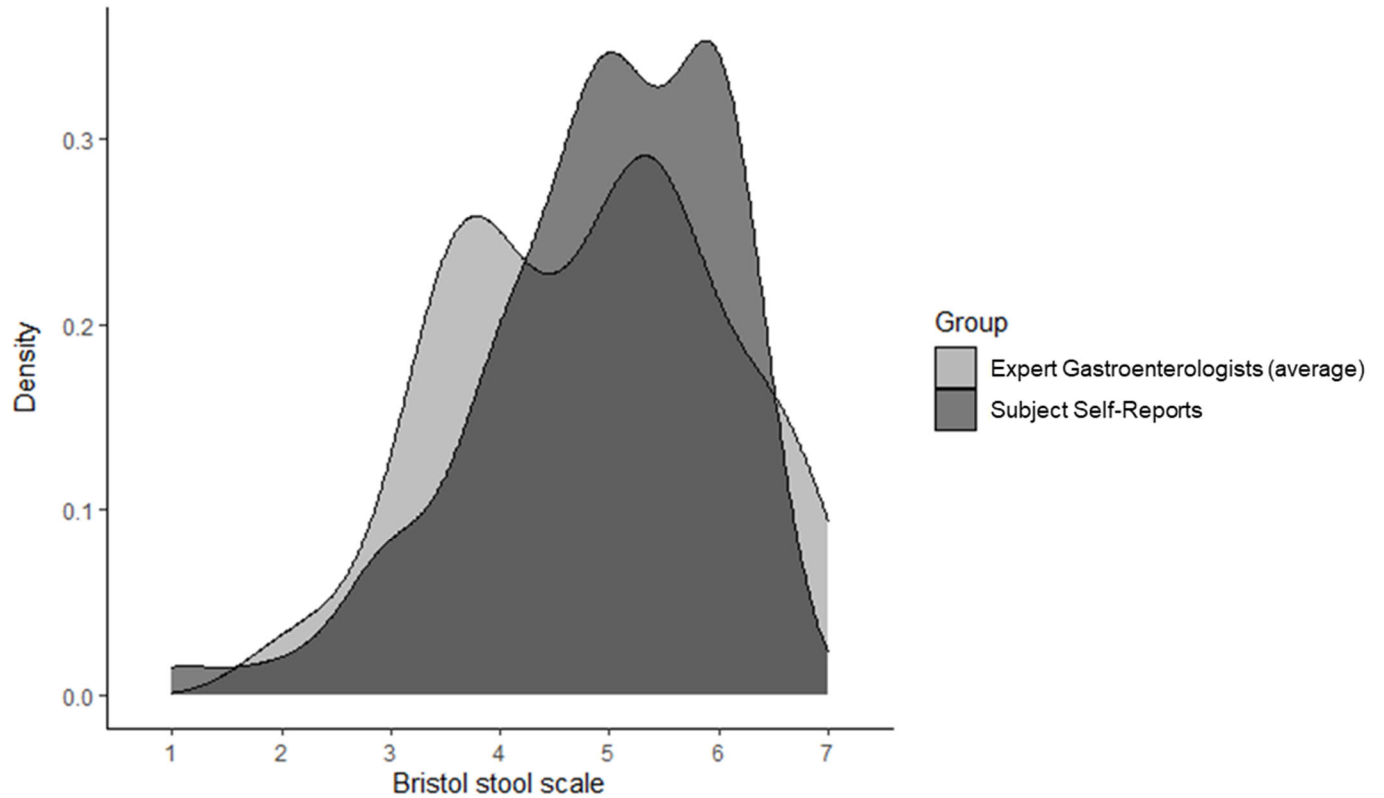
B)



C)

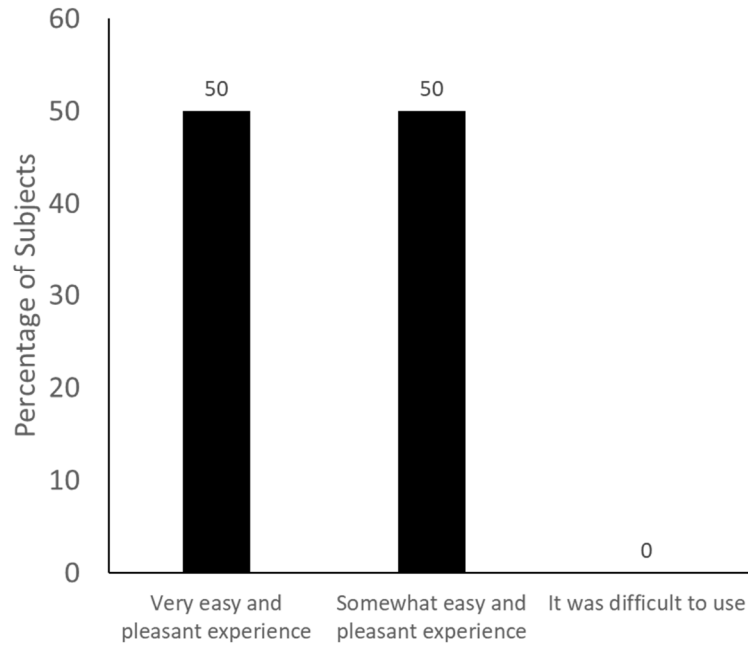


**Supplemental Figure 2. Distributions of daily average BSS scores as determined by Experts' Assessments and Subjects' Self-Reports.** Expert assessments represent the averages of scores from two expert gastroenterologists determined using images of subject stools. Subjects' self-reports represent daily average reported BSS scores.



**Supplemental Figure 3. Subject feedback regarding tracking stool using the App.** Subject responses to 2 questions in the optional end-of-study survey. Only 20 out of 45 subjects completed this survey.

A. Overall, how was your experience using the application in this trial?



B. How do you like tracking your stools in general?

