

**Table, Supplemental Digital Content 1. Model performance for the linear and interactive GBM and logistic regression.**

<b>Model</b>	<b>Average F1 (SD)</b>	<b>Average Precision (SD)</b>
<b>GLM</b>	0.577 (0.200)	0.696 (0.249)
<b>GBM</b>	0.710 (0.191)	0.847 (0.198)

**SDC1.** Classification results demonstrating higher average F1 score, precision, and recall obtained by the linear and interactive GBM models compared to logistic regression (GLM).