

Table 4. Machine Learning Model Performance for ASCI Operational Complexity Stratification

Model	Test Accuracy	Precision	Recall	F1 Score	AUC	Cross-Validation Accuracy
Random Forest	0.99	0.98	0.98	0.98	0.99	0.978 ± 0.012
Decision Tree	0.97	0.96	0.96	0.96	0.98	0.964 ± 0.018

Abbreviations: AUC = area under the receiver operating characteristic curve.

Machine learning metrics represent internal exploratory classification consistency within the ALEBON framework and should not be interpreted as externally validated predictive clinical performance.