

Table S1 Cross-validation classification results using various algorithms between normal and LIS fetuses. RF: Random Forest classifier; SVM-Linear: Support Vector Machine classifier with linear kernel; SVM-RBF: Support Vector Machine classifier with Radial Basis Function kernel; kNN: k-Nearest neighbors; MLP: Multi-Layer Perceptron; XGBoost-Logistic: extreme gradient boosting classifier using logistic regression loss; XGBoost-Linear: extreme gradient boosting classifier using linear regression loss; XGBoostLinear: extreme gradient boosting classifier using pairwise ranking loss. The models were evaluated using four metrics: F1-Score, Accuracy, Area under the curve of the receiver operating characteristic curve (AUC-ROC), Matthews Correlation Coefficient (MCC), Precision and Recall. Boldface denotes the best result for each metric.

<i>LIS</i>	F1-Score	Accuracy	AUC-ROC	MCC	Precision	Recall
RF	0.529	0.837	0.865	0.470	0.409	0.750
SVM-Linear	0.529	0.837	0.875	0.470	0.409	0.750
SVM-RBF	0.500	0.796	0.875	0.453	0.357	0.833
kNN	0.474	0.796	0.819	0.410	0.346	0.750
MLP	0.526	0.816	0.853	0.481	0.385	0.833
XGBoost-Logistic	0.606	0.867	0.900	0.564	0.476	0.833
XGBoost-Linear	0.333	0.837	0.800	0.240	0.333	0.333

Table S2 Cross-validation classification results using various algorithms between normal and LIS fetuses. RF: Random Forest classifier; SVM-Linear: Support Vector Machine classifier with linear kernel; SVM-RBF: Support Vector Machine classifier with Radial Basis Function kernel; kNN: k-Nearest neighbors; MLP: Multi-Layer Perceptron; XGBoost-Logistic: extreme gradient boosting classifier using logistic regression loss; XGBoost-Linear: extreme gradient boosting classifier using linear regression loss; XGBoostLinear: extreme gradient boosting classifier using pairwise ranking loss. The models were evaluated using four metrics: F1-Score, Accuracy, Area under the curve of the receiver operating characteristic curve (AUC-ROC), Matthews Correlation Coefficient (MCC), Precision and Recall. Boldface denotes the best result for each metric.

<i>PMG</i>	F1-Score	Accuracy	AUC-ROC	MCC	Precision	Recall
RF	0.593	0.889	0.837	0.529	0.571	0.615
SVM-Linear	0.389	0.778	0.803	0.282	0.304	0.538
SVM-RBF	0.444	0.848	0.734	0.357	0.429	0.462
kNN	0.286	0.747	0.664	0.152	0.227	0.385
MLP	0.545	0.848	0.741	0.475	0.450	0.692
XGBoost-Logistic	0.538	0.879	0.827	0.469	0.538	0.538
XGBoost-Linear	0.370	0.828	0.745	0.271	0.357	0.385