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Title: "Addressing the Dual Risk of Liver Dysfunction and Tumor Progression in Hepatocellular Carcinoma Through Supervised Clustering"

Short Abstract:

Liver transplant candidates with hepatocellular carcinoma face a dual risk from liver dysfunction and tumor progression that conventional scores capture poorly. We propose an explainable machine learning framework that improves mortality prediction using a small set of key variables while uncovering distinct risk profiles. This approach provides new insights for patient stratification and precision transplant decision-making.