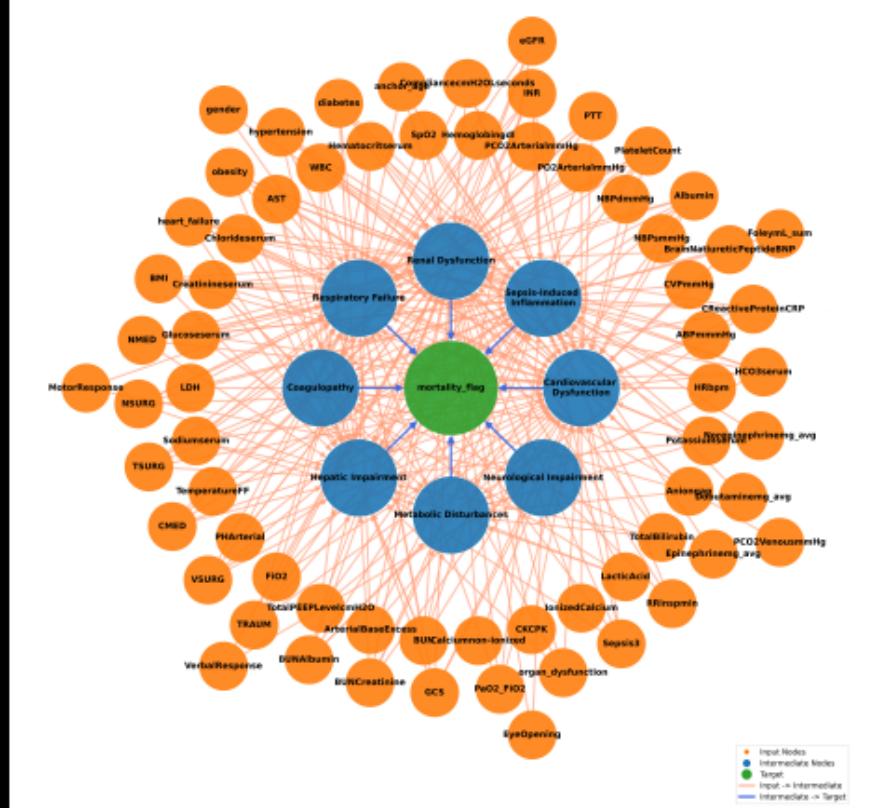
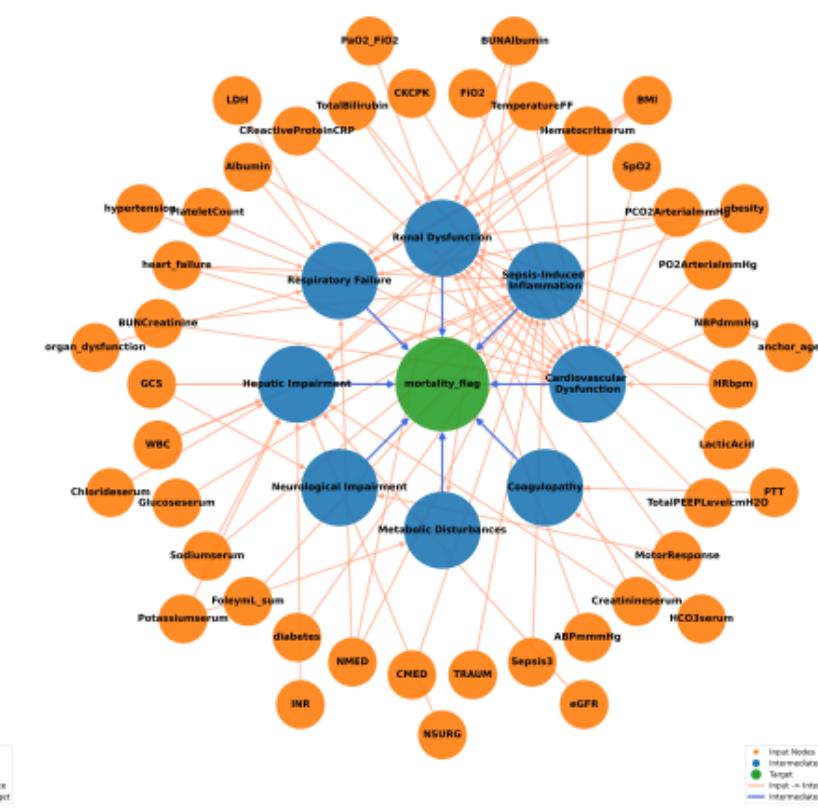


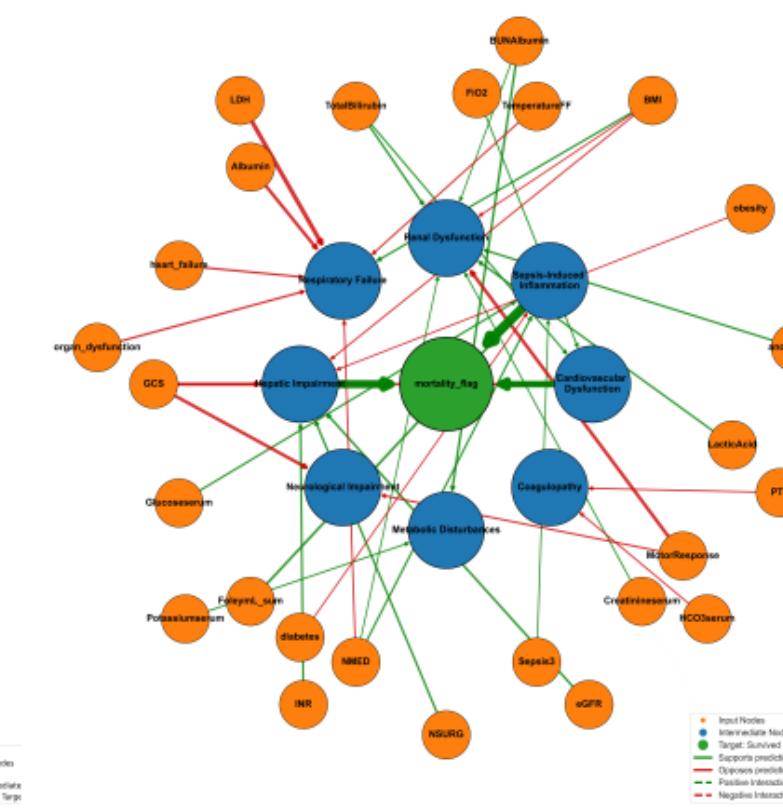
A - Graph Creation



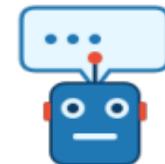
B - Graph-based Feature Selection



C - LIME calculations



D - LLM Reasoning



Explaining ML predictions with LIME contributions

Patient X survived because of stable vital sign parameters as indicated by the positive LIME contribution of the Cardiovascular Dysfunction node.

Explaining feature interactions with scientific articles

Study Y suggests that inflammation increases risk of heart failure. This explains the high feature interactions between sepsis-induced inflammation and cardiovascular dysfunction.

Give user recommendations
The graph shows an interesting connection between renal dysfunction and cardiovascular dysfunction. Perhaps future research should look at the interplay of kidney and heart more in the context of ICU patient care.