

Table 5: Prompt templates used across Stage 1 of the proposed framework.

Stage / Setting	Prompt Template
Broad Phenotype Benchmarking	Given the hospital course: "{TEXT}". Predict the patient's phenotype(s).
Data Representation	Hospital course: "{HOSPITAL_COURSE}". Lab narrative: "{ICU_NARRATIVE}". Identify possible disease categories.
Prompt-based Phenotyping Framework ( $E+R+L$ )	Entities: {ENTITIES}, Relations: {RELATIONS}, Narratives: {NARRATIVE}. Which disease phenotypes apply to this patient?