Appendix: Prompt Templates

Table 1: Sample prompt template for evaluating patient hospital course, identifying key entities and relations, and assessing evidence for a specified disease.

Prompt Text
"Given the hospital course: examples[0].meta['HOSPITAL_COURSE']. The patient had the following entities mentioned: examples[0].meta['ENTITIES'] and relations: examples[0].meta['RELATIONS']. Lab narrative: examples[0].meta['LABS']. Is there evidence for the disease: {'MASK'}?"

Table 2: Detailed prompt template incorporating patient hospital course, entity relations, and lab results to determine evidence for a given disease.

Prompt Text
"Review the patient's hospital course: {examples[0].meta['HOSPITAL_COURSE']}. The observed entities are: {examples[0].meta['ENTITIES']} and the relations: {examples[0].meta['RELATIONS']}. Lab results: {examples[0].meta['LABS']}. Is there evidence for the disease: {'MASK'}?"

Table 3: Comprehensive prompt template for reviewing patient course, medical entities, lab narratives, and disease evaluation.

Prompt Text
"Consider the following hospital course: {examples[0].meta['HOSPITAL_COURSE']}. The patient had the following key entities: {examples[0].meta['ENTITIES']} with corresponding relationships: {examples[0].meta['RELATIONS']}. In addition, the lab narrative is as follows: {examples[0].meta['LABS']}. Do the data provide any evidence for the presence of the disease: {'MASK'}?"

Table 4: Structured prompt template guiding step-by-step reasoning over clinical entities, relations, and laboratory findings for phenotype determination.

Prompt Text
"Given the following clinical entities: {ENTITIES}, and their associated relations: {RELATIONS}, along with the laboratory summary: {LABS}, please explain whether the patient has the phenotype: {phenotype}. Provide a step-by-step clinical reasoning process that links the entities, relations, and laboratory findings before stating your final answer."

Table 5: Narrative-style prompt template integrating entities, relations, and lab summaries to assess phenotype presence.

Prompt Text
"Review the provided medical information, including the identified entities {ENTITIES}, their relationships {RELATIONS}, and the summarized laboratory findings {LABS}. Based on this information, explain whether the patient meets the criteria for the phenotype: {phenotype}. Please include your clinical reasoning first, followed by a clear yes or no conclusion."

Table 6: Analytical prompt template using clinical entities, relations, and laboratory evidence with explicit justification.

Prompt Text
"Using the given entities and relations {ENTITIES}, {RELATIONS} and the lab summary {LABS}, determine whether the patient has the phenotype: {phenotype}. Justify your determination by explaining how the clinical entities and laboratory evidence support or refute the presence of this phenotype before providing your final answer."

Table 7: Evidence-focused prompt template for reasoning over entities, relations, and lab summaries to determine phenotype status.

Prompt Text

"Consider the following evidence:

- Clinical entities: {ENTITIES}

- Entity relations: {RELATIONS}

- Laboratory summary: {LABS}

Based on the above information, explain whether there is sufficient evidence to conclude that the patient has the phenotype: {phenotype}.
Your response should present reasoning grounded in the provided evidence prior to stating your final conclusion."