Extract Options Medical Entities

Task:
Please extract all clinically significant med ical entities from the following medical options·
Example Input1: "A": "Hyperplasia", "B": "Hyperophy", "C": "Atrophy", "D": "Dyplasia" Expected Output1:
Example Input2: Hyperplasia Hyperophy Atrophy Dyplasia "A": "0·7", "B": "0·8", "C": "0·9", "D": "1"
Expected Output2: no medical entities
The text is: "text"

Extract Question Medical Entities

Task:
Please extract all medical entities from the following medical question·
Example Input:
"Chronic urethral obstruction due to benign prismatic hyperplasia can lead to the following change in kidney parenchyma"
Expected Output:
chronic urethral obstruction
benign prismatic hyperplasia
kidney prismatic
The text is:
"text"

Filter Paths

Task:
Based on the following context, please filter out the Neo4j paths that are helpful in solving the problem·
Remove any irrelevant paths· If no paths are helpful, respond with "None"·
Context:
{context_text}
Neo4j Paths:
{paths_text}
Filtered Neo4j Paths:

Filter Definitions

Task:
Based on the following context, remove any irrelevant or redundant UMLS definitions
Context:
{context_text}
UMLS Definitions:
{definitions_text}
Filtered UMLS Definitions:

Generate Graph Triples

Task:
Based on the following medical question, options and relevant medical knowledge, please create a knowledge graph to solve this problem, expressed in the form oftriples (a; b; c),each triple has two semi colons, each triple has three parts· Such as:(a; b; c)(d; e; f)(h; i; j)...
Requirements:
1· The knowledge graph should contain the key information of the problem, and ensure that it does not contain common sense knowledge, such as knowledge about night and day·
2· The knowledge graph should be able to use the relevant medical knowledge provided to point out the reasons why the options are correct and wrong, but it cannot directly say that the options are right or wrong, and ensure that it can be expressed clearly without redundancy·
3· The output is in the form of triples, andthere is no need to separate the triplets, for example (a; b; c)(d; e; f)
4· Knowledge that is not very helpful to the problem can be directly discarded
5· The triples must be complete! ! !
6· You must ensure that the output is a triple in the correct format!!! (a; b; c)(d; e; f)(h; i; j)
Question:
{question}
Options: """ for key, option in options· items(): prompt += f" key: option" prompt += f" Relevant medical knowledge: Knowledge graph triplets:"