Attribute Aspects

🦠 **Disease** 👥 **Role** … ℹ️ **Information Completeness**

sample ↓

Sampled Attributes

🫀 **Hepatitis B** 🧑‍⚕️ **Patient** … 🧩 **Incomplete**

generate ↓

Prompt For Synthesis

Assume that you are a user ... Please generate a query by following the constraints below: (1) User role: **you are a patient with limited medical knowledge**; (2) Disease: … (n) Completeness: **The query should omit key details…**

generate ↓

Synthetic Query

Doctor, I've been feeling very tired these past few days, I've lost my appetite. What should I do?

Initial Response

<think>The user says … Now, answer. </think>The etiology of your condition may be multifactorial, ranging from benign causes such as psychological stress, sleep deprivation, … or hepatic/renal impairment. You should …

Facet 1: Decision-making (f_1)

Query: … **Answer**: …
Your task is to evaluate whether the answer **actively seeks the most informative context…**

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We should ask when did the fatigue start and is it constant or …

Facet 2: Communication (f_2)

Query: … **Answer**: …
Your task is to evaluate whether the answer **effectively recognizes the user's identity…**

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We should avoid using professional terms since the user is a patient…

Facet 3: Safety (f_3)

Query: … **Answer**: …
Your task is to evaluate whether the answer **effectively recognizes safety awareness…**

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We should mention the potential risk factors such as anemia …

generate

Refined Response

<think>The user says … We should ask … We should use simple language… We should mention the risk factors… Now, answer. </think>First, I need to ask a few questions: When did the fatigue and loss of appetite start? …Feeling very tired along with a loss of appetite can come from many different causes, like stress, poor sleep, …or even liver or kidney conditions…Potential risk factors to be aware of include anemia, chronic infections…

Attribute-Conditioned Query Generator ➤ **Multifaceted Self-Refinement Module**