

LLM-KGMQA as a multilingual, high accuracy medical intelligence system with real time reasoning.

Input-1

The image shows the "Medical Question Input" interface. At the top, it says "Medical Question Input" and "Enter your medical query in any supported language". Below this is a section titled "Example Queries (Click to use):" containing a list of queries in English, French, Spanish, German, and Chinese. Underneath is a "Select Language" section with buttons for "English" (highlighted in blue), "Français", "Español", "Deutsch", "Español", and "中文". A "Your Medical Question" input field contains the text "What are the symptoms of urticaria and what can be eaten to alleviate it?". At the bottom are two buttons: "← Back" and "Process Query →".

Interface enables users to submit medical queries in multiple languages for structured analysis and intelligent response generation.

Output-1

The screenshot shows the 'Analysis Results' page from an AI-powered multilingual medical knowledge retrieval system. At the top, it displays 'Language Detected: English' and 'Processing: Same-language response generation'. Below this is a query input field containing 'EN da What are the symptoms of urticaria and what can be eaten to alleviate it?'. To the right of the query are four performance metrics: '98.0%' (Answer Accuracy), '96.6%' (Entity Linking), '0.94' (F1 Score), and '2.00s' (Response Time). The main content area is titled 'Medical Answer' and is associated with 'Urticaria (Hives) - Complete Medical Analysis'. It includes sections for 'Primary Symptoms' (listing severe itching, skin irritation, erythematous rash, raised wheals, skin lesions, and angioedema), 'Recommended Foods (Alleviates symptoms)' (listing boiled cabbage, boiled green bean puree, cold mixed water spinach, fresh tomatoes, and cucumber salad), and 'Foods to Avoid' (listing pig intestines, organ meats, beer, alcoholic beverages, spicy hot foods, and white beans). A 'High Confidence' badge is present.

Displays the medical answer with accuracy metrics, confidence level, and clinically structured response details.

The screenshot shows the 'Knowledge Graph Reasoning Path' page. It begins with a section titled 'Treatment Medications' listing Loratadine capsules, Fexofenadine hydrochloride tablets, and Cetirizine hydrochloride tablets. Below this is a 'Knowledge Graph Reasoning Path' diagram showing a multi-hop entity linking process: urticaria → has_symptom → Multiple Symptoms → recommended_food/drug. A 'Treatment Options' section follows, containing a summary of entity linking results: 'Entity Successfully Identified: URTICARIA', 'Medical Code: ICD-11: EK00.2', 'Department: Dermatology', and 'Entity Linking Accuracy: 96.6%'. The bottom section is titled 'Multilingual Processing' and provides details on language detection, entity fast-linking, concept mapping, knowledge fusion, response generation, and output language. Navigation buttons for 'New Query' and 'Home' are at the bottom.

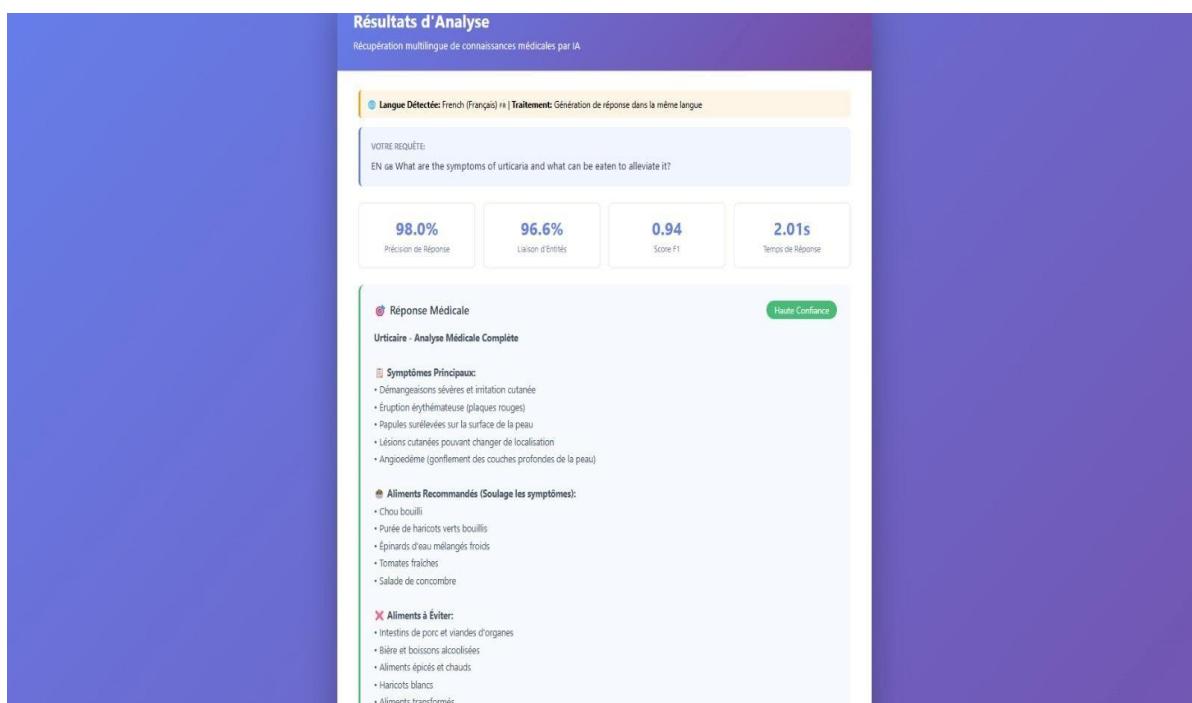
Shows knowledge graph reasoning, entity linking validation, and multilingual processing details supporting the generated answer.

Input-2

The screenshot shows a web-based medical query input interface. At the top, a purple header bar contains the title "Medical Question Input" and a placeholder "Enter your medical query in any supported language". Below the header is a section titled "Example Queries (Click to use)" containing several examples in different languages. A vertical scroll bar is visible on the right side of this section. Below the examples is a "Select Language" section with buttons for "en English" (which is highlighted in blue), "fr Français", "es Español", "de Deutsch", "it Italiano", and "hi हिन्दी". There is also a "cn 中文" button. Underneath these buttons is a text input field labeled "Your Medical Question" with the text "EN q: What are the symptoms of urticaria and what can be eaten to alleviate it?". At the bottom of the interface are two buttons: "← Back" and "Process Query →".

Interface for entering multilingual medical queries with language selection and example prompts for guided input.

Output-2



French language medical analysis displaying accuracy metrics, entity identification, and structured clinical response.

The screenshot displays a user interface for a medical knowledge graph system. At the top, there is a sidebar with a blue header containing the text "Santé Connectée" and a "Déconnexion" button. Below the header, the sidebar lists "Mes requêtes" and "Mes favoris". The main content area is divided into three sections:

- Médicaments de Traitement:**
 - Capsules de loratadine (antihistaminique)
 - Comprimés de chlorhydrate de fexofénadine
 - Comprimés de chlorhydrate de cétrizine
- Chemin de Raisonnement du Graphe:**

Liaison et Raisonnement Multi-sauts:

```
urticaria → has_symptom → Multiple Symptoms → recommended_food/drug
```

Treatment Options

Entité Identifiée avec Succès: URTICAIRE
Code Médical: ICD-11: EK00.Z
Département: Dermatologie
Précision de Liaison d'Entités: 96.6%
- Traitements Multilingue:**

Détection de Langue: Détection automatique FastText/LangDetect
Liaison Rapide d'Entités: Réduction de complexité de 99.90% via intersection d'attributs
Mappage de Concepts: Terminologies standardisées ICD-11/SNOMED-CT
Fusion de Connaissances: Chemins de même relation fusionnés pour raisonnement LLM optimal
Génération de Réponse: Modèle GLM4 (89.9% de précision moyenne sur requêtes multi-sauts)
Langue de Sortie: Identique à l'entrée (FR)

At the bottom of the main content area are two buttons: "← Nouvelle Requête" and "Accueil".

Includes knowledge graph reasoning path and multilingual processing details for grounded and explainable output.