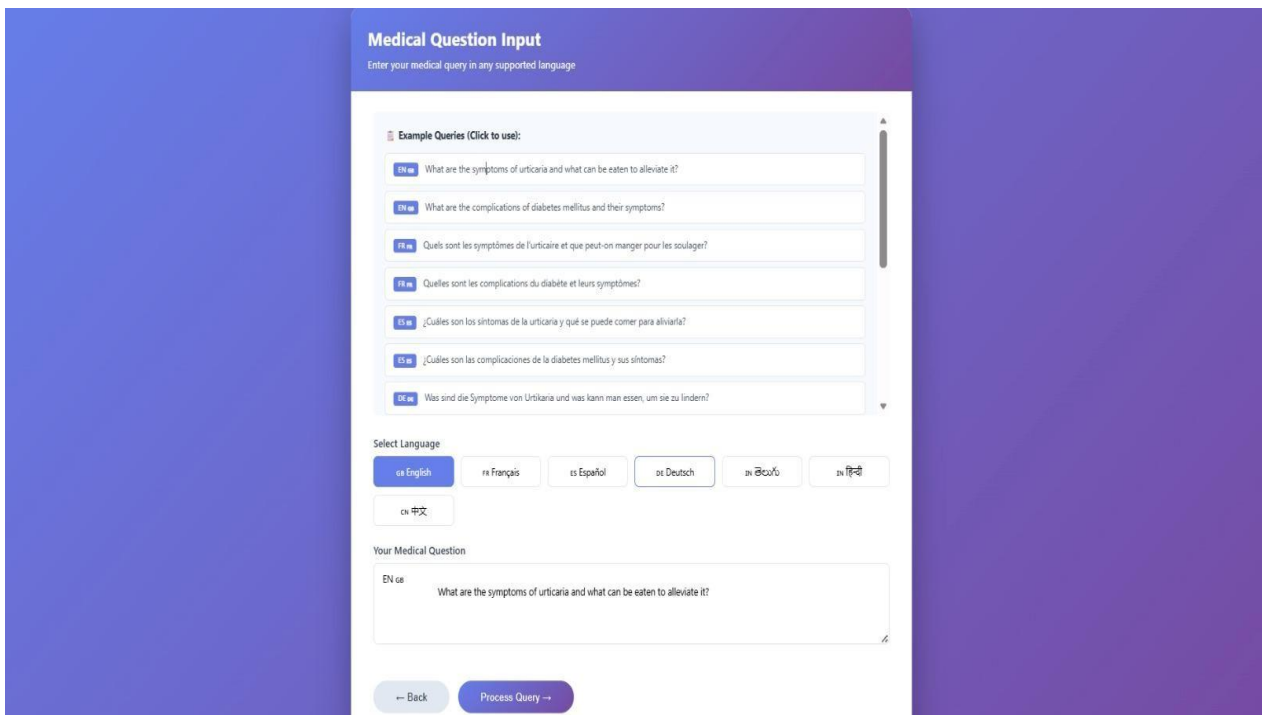


**LLM-KGMQA as a multilingual, high accuracy medical intelligence system with real time reasoning.**

## Input-1



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

## Output-1

**Analysis Results**  
AI-powered multilingual medical knowledge retrieval

Language Detected: English ca | Processing: Same-language response generation

YOUR QUERY:  
EN ca What are the symptoms of urticaria and what can be eaten to alleviate it?

98.0% Answer Accuracy	96.6% Entity Linking	0.94 F1 Score	2.00s Response Time
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**Medical Answer** High Confidence

**Urticaria (Hives) - Complete Medical Analysis**

**Primary Symptoms:**

- Severe itching and skin irritation
- Erythematous rash (red welts)
- Raised wheals on skin surface
- Skin lesions that may change location
- Angioedema (swelling of deeper skin layers)

**Recommended Foods (Alleviates symptoms):**

- Boiled cabbage
- Boiled green bean puree
- Cold mixed water spinach
- Fresh tomatoes
- Cucumber salad

**Foods to Avoid:**

- Pig intestines and organ meats
- Beer and alcoholic beverages
- Spicy and hot foods
- White beans

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

**Treatment Medications:**

- Loratadine capsules (antihistamine)
- Fexofenadine hydrochloride tablets
- Cetirizine hydrochloride tablets

**Knowledge Graph Reasoning Path**

Multi-hop Entity Linking & Reasoning:

urticaria → has\_symptom → Multiple Symptoms → recommended\_food/drug → Treatment Options

**Entity Successfully Identified: URTICARIA**

- Medical Code: ICD-11: EK00.Z
- Department: Dermatology
- Entity Linking Accuracy: 96.6%

**Multilingual Processing**

**Language Detection:** FastText/LangDetect automatic detection

**Entity Fast-Linking:** 99.90% complexity reduction via attribute intersection

**Concept Mapping:** ICD-11/SNOMED-CT standardized terminologies

**Knowledge Fusion:** Same-relation paths merged for optimal LLM reasoning

**Response Generation:** GLM4 model (89.9% avg accuracy on multi-hop queries)

**Output Language:** Same as input (EN)

[← New Query](#) [Home](#)

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

## Input-2

The screenshot shows a web interface titled "Medical Question Input" with the subtitle "Enter your medical query in any supported language". Below the title is a section "Example Queries (Click to use):" containing a list of questions in English, French, and German. Below this is a "Select Language" section with buttons for "en English", "fr Français", "es Español", "de Deutsch", "bn বাংলা", and "zh 中文". The "fr Français" button is selected. Below the language selection is a text input field labeled "Your Medical Question" containing the English query "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 for entering multilingual medical queries with language selection and example prompts for guided input.

## Output-2

The screenshot shows a web interface titled "Résultats d'Analyse" with the subtitle "Récupération multilingue de connaissances médicales par IA". Below the title is a section "Langue Détectée: French (Français) | Traitement: Génération de réponse dans la même langue". Below this is a section "VOTRE REQUÊTE" containing the English query "What are the symptoms of urticaria and what can be eaten to alleviate it?". Below the query are four metrics: "98.0% Précision de Réponse", "96.6% Liaison d'Entités", "0.94 Score F1", and "2.01s Temps de Réponse". Below the metrics is a section "Réponse Médicale" with a "Haute Confiance" button. The response is titled "Urticaire - Analyse Médicale Complète" and contains three sections: "Symptômes Principaux:", "Aliments Recommandés (Soulage les symptômes):", and "Aliments à Éviter:". The "Symptômes Principaux:" section lists: "Démangeaisons sévères et irritation cutanée", "Éruption érythémateuse (plaques rouges)", "Papules surélevées sur la surface de la peau", "Lésions cutanées pouvant changer de localisation", and "Angioedème (gonflement des couches profondes de la peau)". The "Aliments Recommandés (Soulage les symptômes):" section lists: "Chou bouilli", "Purée de haricots verts bouillis", "Épinards d'eau mélangés froids", "Tomates fraîches", and "Salade de concombre". The "Aliments à Éviter:" section lists: "Intestins de porc et viandes d'organes", "Bière et boissons alcoolisées", "Aliments épicés et chauds", "Haricots blancs", and "Aliments transformés".

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

