

Following are the screenshots and outputs of sample queries

UI:

Privacy & Data Protection

🔒 HIPAA Compliance Notice

- No personal health information (PHI) is stored
- All queries are processed securely
- Data is encrypted in transit
- No user session data is retained

## Medical Q&A Assistant

Ask questions about medical topics and get evidence-based answers

Important:

This system provides general medical information for educational purposes only. It does not store or process personal health information. For personalized medical advice, always consult with qualified healthcare professionals.

Enter your medical question

Get Answer

Sample 1:

Enter your medical question

tell me about type 2 diabetes

Get Answer

## Answer:

**Answer:** Type 2 diabetes is a chronic condition that affects the way the body uses sugar (glucose). In type 2 diabetes, the body does not make enough insulin or does not use insulin well. Insulin is a hormone that helps glucose get from the blood into the cells, where it is used for energy.

### References:

- [doc22.txt](#)

### Follow-up Questions:

- What are the symptoms of type 2 diabetes?
- What are the risk factors for type 2 diabetes? .
- How is type 2 diabetes treated?

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Sample 2:

Enter your medical question

How to treat severe asthma

Get Answer

## Answer:

### Treatment for Severe Asthma

#### Medications

- **High-dose inhaled corticosteroids (ICS):** These are the most important medications for treating severe asthma. They reduce inflammation in the airways.
- **Long-acting beta-agonists (LABA):** These medications help to open up the airways. They are often used in combination with ICS.
- **Oral corticosteroids:** These medications are used to reduce inflammation in the airways and improve asthma symptoms. They are typically used for short-term treatment of asthma attacks.
- **Leukotriene modifiers:** These medications block the effects of leukotrienes, which are chemicals that cause inflammation in the airways.
- **Biologics:** These medications are used to treat severe asthma that is not well-controlled with other medications. They target specific molecules in the immune system that are involved in asthma.

#### Other Treatments

- **Asthma action plan:** This is a written plan that outlines how to manage asthma symptoms and what to do in case of an asthma attack.
- **Peak flow meter:** This device is used to measure how well the lungs are working. It can help to monitor asthma symptoms and track progress over time.
- **Pulmonary rehabilitation:** This program can help to improve lung function and quality of life in people with severe asthma.
- **Allergy immunotherapy:** This treatment involves getting injections of small amounts of an allergen to build up tolerance over time.

#### References

- **Local Documents:**
  - doc1.txt: Comprehensive Asthma Management Protocol
- **Web Sources:**
  - [American Lung Association](#)
  - [National Heart, Lung, and Blood Institute](#)

#### Follow-up Questions

- What are the signs and symptoms of severe asthma?
- What are the risks of severe asthma?
- How can I prevent severe asthma attacks?

#### Medical Disclaimers

The information provided in this response is not intended to replace the advice of a healthcare professional. Always consult with a healthcare professional for diagnosis and treatment

Sample 3:

Enter your medical question

What to do during heart attack?

Get Answer

## Answer:

### What to do during a heart attack?

A heart attack, also known as a myocardial infarction, occurs when blood flow to a part of the heart is blocked, causing damage to the heart muscle. It is a medical emergency, and early intervention is crucial. Here are some steps to take if you suspect someone is experiencing a heart attack:

1. **Call for emergency medical help immediately.** Call 911 or your local emergency number.
2. **Help the person into a comfortable position.** Sit them down or help them lie down in a comfortable position. Loosen any tight clothing that may restrict their breathing.
3. **Administer aspirin if available.** Aspirin helps to thin the blood and improve blood flow. Give the person one regular-strength aspirin tablet (325 mg) to chew and swallow.
4. **Monitor the person's breathing.** If the person stops breathing, start CPR immediately.
5. **Stay with the person until help arrives.** Reassure the person and try to keep them calm.

### References

- [Mayo Clinic: Heart Attack](#)
- [American Heart Association: Heart Attack](#)

### Follow-up Questions

- What are the signs and symptoms of a heart attack?
- How can I prevent a heart attack?
- What is the treatment for a heart attack?

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Sample 4:

Enter your medical question

how to control obesity?

Get Answer

## Answer:

### How to control obesity:

- **Lifestyle intervention:**
  - Dietary modification
  - Physical activity prescription
  - Behavioral therapy
- **Pharmacotherapy:**
  - Appetite suppressants
  - Anti-obesity medications
- **Bariatric surgery:**
  - Roux-en-Y gastric bypass
  - Sleeve gastrectomy
  - Adjustable gastric banding

### References:

- doc9.txt
- [https://www.cdc.gov/healthyweight/losing\\_weight/index.html](https://www.cdc.gov/healthyweight/losing_weight/index.html)
- <https://www.mayoclinic.org/diseases-conditions/obesity/in-depth/obesity/art-20046918>

### Follow-up Questions:

- What are the specific dietary modifications and physical activity recommendations for weight loss?
- What are the potential risks and benefits of bariatric surgery?
- How do I know if I qualify for pharmacotherapy for obesity?

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Sample 5:

Enter your medical question

what are symptoms the of liver disease

Get Answer

## Answer:

Symptoms of liver disease can include:

- Fatigue
- Nausea and vomiting
- Abdominal pain
- Jaundice (yellowing of the skin and eyes)
- Dark urine
- Light-colored stools
- Itchy skin
- Swelling in the legs and ankles
- Confusion
- Coma

**References:**

- [Understanding Liver Disease](#)
- [Liver Disease](#)
- [Symptoms of Liver Disease](#)

**Follow-up Questions:**

- What are the risk factors for liver disease?
- How is liver disease diagnosed?
- What are the treatment options for liver disease?

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