

My Health Topics

By Team Acsys

<http://acsyshealthguide.appspot.com>

Why do I need "My Health Topics"?



Current medical information is difficult to come by. Each government institution has their own silo of information. Users are left to struggle to find answers to basic questions on many different sites/platforms.

What information can I find in it?

We utilize many online services, including:

- Medline Plus
- Hospital Compare
- Clinical Trials
- Health Updates
- Health News



While all this is available through the API service, we also built an easy to use interface that aggregates this information into a pleasing tablet experience.

But more on that in a bit!

Can it handle our large user base?

Yes! The application web service is a REST service that outputs data in either JSON or XML. Written in Python and hosted on Google App Engine, the service is fast and highly scalable.

The UI takes advantage of HTML5 utilizing our JSON API



What about non-english speaking users?

Both the UI and the feeds themselves support Spanish as a language option. As soon as Spanish is selected as a choice, the entire UI will change to accommodate it. In situations where a feed supports Spanish, we will pull that information. If the feed doesn't support Spanish, we do an "on-the-fly" translation through Google Translate. It's seamless to the user and they get the content they need in a language they understand.



My Health Topics - Main Screen

First, we have the main search screen allowing user to search for health topics and also get latest health news.


Language: **English** Español


Search:


Search Type: **Keyword** ICD9


Zip Code:

Health News

Back to School Safety: Avoid Pain from Heavy Backpacks 
Source: American Academy of Orthopaedic SurgeonsRelated MedlinePlus Pages: Back Injuries, Back Pain, School Health


Mindless Eating: Losing Weight Without Thinking 
Source: American Psychological AssociationRelated MedlinePlus Page: Weight Control

Memory Remedy? 
Source: HealthDay - Related MedlinePlus Pages: Memory, Mild Cognitive Impairment, Pain Relievers, Seniors' Health

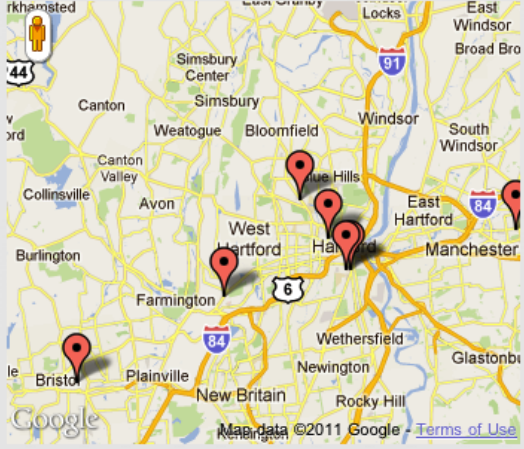
More News 

My Health Topics - Search Results

This screen guides the user to find exactly what they're looking for. It provides a few possible topic selections, but if they're looking for something specific (i.e. relevant clinical trials or hospitals in the area) it's just a click away. For hospital locations, in addition to the standard tabular format, we also show the locations on Google Maps allowing the user more interactivity.

 Hospitals

<p><u>JOHN DEMPSEY HOSPITAL</u> 263 FARMINGTON AVE FARMINGTON, CT 6032 (860) 679-1145</p>	<p>Distance: 2.0 miles Emergency Services: Yes</p>
<p><u>HOSPITAL OF CENTRAL CONNECTICUT THE</u> 100 GRAND STREET NEW BRITAIN, CT 6050 (860) 224-5011</p>	<p>Distance: 6.0 miles Emergency Services: Yes</p>
<p><u>BRISTOL HOSPITAL</u> BREWSTER RD BRISTOL, CT 6010 (860) 585-3000</p>	<p>Distance: 7.0 miles Emergency Services: Yes</p>



My Health Topics – Results

← Back

My Health Topics

★ Share This

Diabetes

Diabetes Type 1

Diabetes and Pregnancy

Diabetes is a disease in which your blood glucose, or sugar, levels are too high. Glucose comes from the foods you eat. Insulin is a hormone that helps the glucose get into your cells to give them energy. With Type 1 diabetes, your body does not make insulin. With Type 2 diabetes, the more common type, your body does not make or use insulin well. Without enough insulin, the glucose stays in your blood.

Over time, having too much glucose in your blood can cause serious problems. It can damage your eyes, kidneys, and nerves. Diabetes can also cause heart disease, stroke and even the need to remove a limb. Pregnant women can also get diabetes, called gestational diabetes.

Symptoms of Type 2 diabetes may include fatigue, thirst, weight loss, blurred vision and frequent urination. Some people have no symptoms. A blood test can show if you have diabetes. Exercise, weight control and sticking to your meal plan can help control your diabetes. You should also monitor your glucose level and take medicine if prescribed.

NIH: National Institute of Diabetes and Digestive and Kidney Diseases



+ Hospitals

+ Clinical Trials

+ Health Updates

+ Health News

i About

My Health Topics - API

Last, but not least, we have the API service. If you're looking for a quick overview of what's available, this should be your first stop.

My Health Topics REST API Documentation

API Index

- [Health Keyword Proximity Search](#)
- [Health Updates](#)
- [Health News](#)
- [Clinical Trials](#)
- [Health Topics \(Keyword\)](#)
- [Health Diagnosis \(ICD-9\)](#)
- [Hospital Proximity Search API](#)
- [Dialysis Centers Proximity Search API](#)
- [Data Translation API](#)

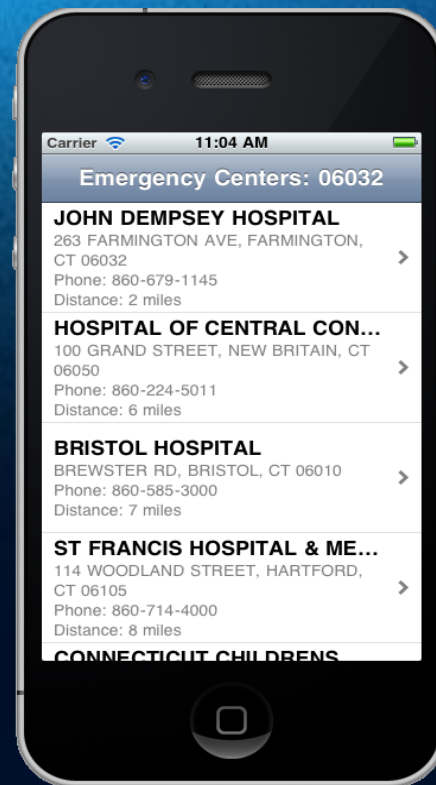


```
<root>
- <healthtopic-records>
  - <record>
    <title>Diabetes</title>
    - <summary>
      <p><span class="qt0">Diabetes</span> is a disease in which your blood glucose, or s
the glucose get into your cells to give them energy. With Type 1 <span class="qt0">dia
class="qt0">diabetes</span>, the more common type, your body does not make or use
too much glucose in your blood can cause serious problems. It can damage your eyes,
even the need to remove a limb. Pregnant women can also get <span class="qt0">diab
<span class="qt0">diabetes</span> may include fatigue, thirst, weight loss, blurred vi
<span class="qt0">diabetes</span>. Exercise, weight control and sticking to your mea
glucose level and take medicine if prescribed. </p><p>NIH: National Institute of <spa
    </summary>
  </record>
```

How easy is it for me to make my own application?

Very easy. Since it's all web service based, our framework is language independent. As an example, we created a proof-of-concept iPhone application that uses our web service. It displays all nearby hospitals that offer emergency services.

Time of completion: 1.5 hours



Thank You!

We hope you've enjoyed this presentation and will consider us for selection in the Health 2.0 Developer Challenge!

Team Acsys

<http://acsyshealthguide.appspot.com>

<http://acsyshealthguide.appspot.com/api/>