



MEDgle Search API v1.02

MEDgle Search API (MSA)

Welcome to the developer documentation for the MEDgle Search API! The API allows you to develop health applications leveraging the power of MEDgle expert system and search. To use the API, you need to first sign up for an API key. At present, please contact us via the contact form at medgle.com to get an API key. Once you've received an API key, you can develop health and medical applications following the instructions in this documentation.

Table of Contents

Introduction

API Overview

Corporate Login

Examples

Introduction

The easiest way to start learning about this API is to see a simple example. The following web page displays a collection of search results for a "fever".

API Overview

All requests to MEDgle API are through <http://www.medgle.com/xml.jsp>. Depending on whether or not you have logged in, you will either get the public available results, or a much more detailed result set depending on your corporate account settings.

The following are the different tasks (actions) that are currently available by the api:

task=getinfo :: <http://www.medgle.com/xml.jsp?task=getinfo&q=fever>

```
<root>
  <logo type="small">http://www.medgle.com/logo/medglelogoBB.png</logo>
  <logo type="big">http://www.medgle.com/logo/medglelogoE.jpg</logo>
  <linkback_url>
    http://www.medgle.com/?isearch=true%26gender=%26agerange=18-29%26symptom=fever%26duration=
  </linkback_url>
  <linkback_text>Click here for more personalized results</linkback_text>
  <query>
    <querytype>symptom</querytype>
    <symptoms>
      <symptom>fever</symptom>
    </symptoms>
    <duration/>
    <gender/>
    <agerange>18-29</agerange>
    <modification_options>
      <additional_symptoms>
        <symptom>a painful swelling in skin</symptom>
        <symptom>bad taste in mouth</symptom>
        <symptom>bodyache</symptom>
        <symptom>dental problems</symptom>
        <symptom>diarrhea</symptom>
      </additional_symptoms>
    </modification_options>
  </query>
  <diagnoses>
    <diagnosis>
      <diagnosis_name>upper respiratory infection</diagnosis_name>
      <diagnosis_url>http://www.medgle.com/rw/diagnoses/upper+respiratory+infection</diagnosis_url>
      <diagnosis_layman>common cold</diagnosis_layman>
```

```

<diagnosis_prevalence>very common</diagnosis_prevalence>
<diagnosis_symptoms type="common">
nasal discharge, sinus congestion, sneezing, stuffy nose
</diagnosis_symptoms>
<diagnosis_emergency>No</diagnosis_emergency>
<diagnosis_result_score>8</diagnosis_result_score>
</diagnosis>
<diagnosis>
<diagnosis_name>influenza</diagnosis_name>
<diagnosis_url>http://www.medgle.com/rw/diagnoses/influenza</diagnosis_url>
<diagnosis_layman>flu</diagnosis_layman>
<diagnosis_prevalence>very common</diagnosis_prevalence>
<diagnosis_symptoms type="common">
nasal discharge, runny nose, sinus congestion, stuffy nose
</diagnosis_symptoms>
<diagnosis_emergency>No</diagnosis_emergency>
<diagnosis_result_score>8</diagnosis_result_score>
</diagnosis>
</diagnoses>
<procedures type="diagnostic">
<procedure>Blood culture</procedure>
<procedure>Complete Blood Count</procedure>
<procedure>BUN</procedure>
<procedure>Culture throat</procedure>
</procedures>
</root>

```

Below is a table with the details on types of queries, what they do, the necessary parameters and who can access them.

parameter: task=?	explanation/details	other parameters	accessibility
dologin	Use this and https with parameters "user" and "pass" to login as a corporate user. When logged in the number of results and related information will more than what is available for the public access to the api. Please use the contact form available at medgle.com.	user – username pass – password	public & corporate
getinfo	This will return different information based on the value of the "q" parameter. MEDgle will automatically determine whether the query "q" is a symptom, diagnosis, procedure, or drug. Depending on the type of query the api will return different information.	q- comma delimited query string for searches where q=one or more comma separated symptoms the additional attributes can apply: duration - up to 4 duration elements can be placed {0-3 days,4-14 days,...} agerange - the age range for symptom search can be given {1-3,4-11, 12-17, 18-29, 30-50, 50+} realage - (new) the specific age in question where values range from 1 to 100	public & corporate

gettranslation	This will return the medical term in the requested language. If there is a language you need that is not found in the list to the right, please contact us.	q- comma delimited query string tolanguage - values can be "spanish", "french", "german", "dutch", "chinese", "chinesesp", "japanese", "hindi" Note: "chinese" = traditional chinese "chinesesp" = simplified chinese	public & corporate
getcompare	This will return the necessary comparison information for a given set of diagnoses	q - comma separated diagnoses	public & corporate

<p>healthiermee (new)</p>	<p>This enables access to the healthiermee analytics via the API. This will return:</p> <p>fitscore - individuals calculated fit score (this is normalized for the persons age)</p> <p>bmi - individuals calculated bmi bmiunderweight - threshold for being underweight bmioverweight - threshold for being overweight bmiobese - threshold for being morbidly obese</p> <p>atriskfor diagnoses - list of diagnoses that the individual has exacerbated risk above a similar "very healthy" individual.</p>	<p>A number of parameters need to be specified in order for the basics of the analytics to be relevant. There are a number of optional parameters.</p> <p>Required</p> <hr/> <p>gender={Male,Female} realage={1..100} myheight= #cm myweight= #kg</p> <p>Optional</p> <hr/> <p>activitylevel=2 {default} very sedentary=0 sedentary=1 some activity=2 active=3 very active=4</p> <p>numdailydrinks=0 {default} values range from {0..4} where 4 is 4+</p> <p>numdailypacks=0 {default} #packs of cigrattes=parameter value 0=0 <1=1 1=2 2=3 3=4</p> <p>dailyfat=1 {default} low fat food=0 normal=1 fatty food=2 very fatty food=3</p> <p>fdiag={diagnosis} You can have up to 7 diagnoses that the individual has a family history of. The analytics will take this into account.</p> <p>pdiag={diagnosis} You can up to 7 current diagnoses that the individual has.</p>	<p>corporate</p>
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<p>medsummary (new)</p>	<p>Given a url will return a semantic analysis of the document at the url given. This will return:</p> <p>title - title of document</p> <p>mainconcepts - list of concepts that semantically define the document (e.g. surgery, angina, coronary artery surgery)</p> <p>category -- general category (e.g. Health/ Conditions_and_Diseases/ Cardiovascular_Disorders)</p> <p>documentimage -- selected image from document</p> <p>shortsummary - a short summary</p> <p>extendedsummary - an extended summary</p> <p>concepts - a list of concepts and their semantic score ranging from [0,1). Depending on focus, top score can exceed 1.</p> <p>ismedical - true or false value determining if the document is a medical document</p> <p>medicalterms - a list of medical terms and their semantic scores that were found in the document</p> <p>medicalcategory - a list of medical categories and scores</p> <p>topmedicategory - a list of the top medical categories in which the document falls under</p>	<p>url=???</p> <p>(e.g. url=http://www.nhlbi.nih.gov/health/dci/Diseases/Copd/Copd_WhatIs.html)</p>	
<p>gettype</p>	<p>Given a query string will return whether or not the query was a symptom, diagnosis, procedure, or drug. If the specific string is not understood will return a "" for the type.</p>		<p>corporate</p>

understand	Given a query string will return whether or not the query was a symptom, diagnosis, procedure, or drug. In addition, if the string does not specifically match, will apply fuzzy matching to determine to the best of its ability the specific understood string and its type.	q - text to analyze/ understand unify=true - combines synonyms to one result matchingall=true - stop the process from looking for sub strings that are matched	corporate
getautocomplete	Given a query string will return all partially matching strings with the possible types of symptoms, diagnoses, procedures, and drugs. This provides the information necessary to enable medical/health auto-completes in search text boxes.	q - text to find potential completions matchString=["symptoms", "diagnoses", "procedures", "drugs"] - what to match. For all results use matchString=matchAll	corporate

Corporate Login

To login into the corporate version please pass your username and password to:

<http://www.medgle.com/corpllogin.jsp?task=dologin&user={username}&pass={password}>

This will create a active corporate session and allow you greater access to information and functions provided by the MEDgle API.

For a successful response you should get:

```
<root>
  <login>successful</login>
</root>
```

Examples

The following are the examples responses for each of the different types of queries.

task=getinfo :: <http://www.medgle.com/xml.jsp?task=getinfo&q=fever>

```
<root>
  <logo type="small">http://www.medgle.com/logo/medglelogoBB.png</logo>
  <logo type="big">http://www.medgle.com/logo/medglelogoE.jpg</logo>
  <linkback_url>
    http://www.medgle.com/?isearch=true%26gender=%26agerange=18-29%26symptom=fever%26duration=
  </linkback_url>
  <linkback_text>Click here for more personalized results</linkback_text>
  <query>
    <querytype>symptom</querytype>
    <query_url>http://www.medgle.com/?isearch=true%26gender=%26agerange=18-29%26symptom=fever%26duration=</query_url>
    <symptoms>
      <symptom>fever</symptom>
    </symptoms>
    <duration/>
    <gender/>
    <agerange>18-29</agerange>
```

```

    <modification_options>
      <additional_symptoms>
        <symptom>a painful swelling in skin</symptom>
        <symptom>bad taste in mouth</symptom>
        <symptom>bodyache</symptom>
        <symptom>dental problems</symptom>
        <symptom>diarrhea</symptom>
        <symptom>facial pain</symptom>
        <symptom>headache</symptom>
        <symptom>irritability</symptom>
        <symptom>left upper quadrant abdominal pain</symptom>
        <symptom>low back pain</symptom>
        <symptom>lump or swelling on face</symptom>
        <symptom>lump or swelling on head</symptom>
      </additional_symptoms>
    </modification_options>
  </query>

  <diagnoses>
    <diagnosis>
      <diagnosis_name>upper respiratory infection</diagnosis_name>
      <diagnosis_url>http://www.medgle.com/rw/diagnoses/upper+respiratory+infection</diagnosis_url>
      <diagnosis_layman>common cold</diagnosis_layman>
      <diagnosis_prevalence>very common</diagnosis_prevalence>
      <diagnosis_symptoms type="common">
        nasal discharge, sinus congestion, sneezing, stuffy nose
      </diagnosis_symptoms>
      <diagnosis_emergency>No</diagnosis_emergency>
      <diagnosis_result_score>8</diagnosis_result_score>
    </diagnosis>
    <diagnosis>
      <diagnosis_name>influenza</diagnosis_name>
      <diagnosis_url>http://www.medgle.com/rw/diagnoses/influenza</diagnosis_url>
      <diagnosis_layman>flu</diagnosis_layman>
      <diagnosis_prevalence>very common</diagnosis_prevalence>
      <diagnosis_symptoms type="common">
        nasal discharge, runny nose, sinus congestion, stuffy nose
      </diagnosis_symptoms>
      <diagnosis_emergency>No</diagnosis_emergency>
      <diagnosis_result_score>8</diagnosis_result_score>
    </diagnosis>
    <diagnosis>
      <diagnosis_name>pharyngitis</diagnosis_name>
      <diagnosis_url>http://www.medgle.com/rw/diagnoses/pharyngitis</diagnosis_url>
      <diagnosis_layman>inflammation of throat</diagnosis_layman>
      <diagnosis_prevalence>very common</diagnosis_prevalence>
      <diagnosis_symptoms type="common">runny nose, sneezing, sore throat, throat tickle</diagnosis_symptoms>
      <diagnosis_emergency>No</diagnosis_emergency>
      <diagnosis_result_score>7</diagnosis_result_score>
    </diagnosis>
    <diagnosis>
      <diagnosis_name>pneumonia</diagnosis_name>
      <diagnosis_url>http://www.medgle.com/rw/diagnoses/pneumonia</diagnosis_url>
      <diagnosis_layman>lung infection</diagnosis_layman>
      <diagnosis_prevalence>very common</diagnosis_prevalence>
      <diagnosis_symptoms type="common">
        breathing fast, cough, cough wet, shortness of breath with exercise
      </diagnosis_symptoms>
      <diagnosis_emergency>No</diagnosis_emergency>
      <diagnosis_result_score>7</diagnosis_result_score>
    </diagnosis>
  </diagnoses>

  <procedures type="diagnostic">
    <procedure>Blood culture</procedure>
    <procedure>Complete Blood Count</procedure>
    <procedure>BUN</procedure>
    <procedure>Culture throat</procedure>
  </procedures>
</root>

```

task=getinfo :: <http://www.medgle.com/xml.jsp?task=getinfo&q=asthma>

```

<root>
  <logo type="small">http://www.medgle.com/logo/medglelogoBB.png</logo>
  <logo type="big">http://www.medgle.com/logo/medglelogoE.jpg</logo>
  <linkback_url>http://www.medgle.com/rw/diagnoses/asthma</linkback_url>

```

```

<linkback_text>Click here for more information</linkback_text>
<diagnosis>
  <diagnosis_name>asthma</diagnosis_name>
  <diagnosis_url>http://www.medgle.com/rw/diagnoses/asthma</diagnosis_url>
  <diagnosis_layman>
    narrowing and inflammation of airways causing wheezing
  </diagnosis_layman>
  <diagnosis_prevalence>very common</diagnosis_prevalence>
  <diagnosis_definition>
    Asthma is a chronic disease of the respiratory system in which the airway occasionally constricts, becomes inflamed, and is lined with excessive amounts of mucus, often in response to one or more triggers.
  </diagnosis_definition>
  <diagnosis_symptoms type="common">
    chest pain on exertion, chest pain relieved by stopping activity, coughing at night, inability to take a deep breath
  </diagnosis_symptoms>
  <diagnosis_emergency>Yes</diagnosis_emergency>
  <procedures type="diagnostic">
    <procedure url="http://www.medgle.com/rw/procedures/Allergy+testing/">Allergy testing</procedure>
    <procedure url="http://www.medgle.com/rw/procedures/Bronchial+provocation+tests/">Bronchial provocation tests</procedure>
    <procedure url="http://www.medgle.com/rw/procedures/Chest+X-ray/">Chest X-ray</procedure>
    <procedure url="http://www.medgle.com/rw/procedures/Complete+Blood+Count/">Complete Blood Count</procedure>
    <procedure url="http://www.medgle.com/rw/procedures/Exercise+challenge/">Exercise challenge</procedure>
    <procedure url="http://www.medgle.com/rw/procedures/Hemoglobin%2Fhematocrit/">Hemoglobin/hematocrit</procedure>
    <procedure url="http://www.medgle.com/rw/procedures/MCHC/">MCHC</procedure>
  </procedures>
  <procedures type="therapeutic">
    <procedure url="http://www.medgle.com/rw/procedures/Oxygen/">Oxygen</procedure>
    <procedure url="http://www.medgle.com/rw/procedures/spacer/">spacer</procedure>
    <procedure url="http://www.medgle.com/rw/procedures/aerochamber/">aerochamber</procedure>
    <procedure url="http://www.medgle.com/rw/procedures/Nebulizer+for+Asthma/">Nebulizer for Asthma</procedure>
  </procedures>
  <medications>
    <medication url="http://www.medgle.com/rw/drugs/Beclomethasone+%28Beclvent%2C+Vanceril%2C+QVAR%29/">Beclomethasone (Beclvent, Vanceril, QVAR)</medication>
    <medication url="http://www.medgle.com/rw/drugs/Budesonide+%28Pulmicort+Turbuhaler+or+Respules%29/">Budesonide (Pulmicort Turbuhaler or Respules)</medication>
    <medication url="http://www.medgle.com/rw/drugs/Cromolyn+sodium/">Cromolyn sodium</medication>
    <medication url="http://www.medgle.com/rw/drugs/Fluticasone+%28Flovent%29/">Fluticasone (Flovent)</medication>
    <medication url="http://www.medgle.com/rw/drugs/Levalbuterol/">Levalbuterol</medication>
    <medication url="http://www.medgle.com/rw/drugs/Methylprednisolone/">Methylprednisolone</medication>
    <medication url="http://www.medgle.com/rw/drugs/Montelukast/">Montelukast</medication>
  </medications>
</diagnosis>
</root>

```

task=getinfo :: <http://www.medgle.com/xml.jsp?task=getinfo&q=viral+culture>

```

<root>
  <logo type="small">http://www.medgle.com/logo/medglelogoBB.png</logo>
  <logo type="big">http://www.medgle.com/logo/medglelogoE.jpg</logo>
  <linkback_url>http://www.medgle.com/rw/procedures/Viral+Culture</linkback_url>
  <linkback_text>Click here for more information</linkback_text>
  <procedure>
    <procedure_name>Viral Culture</procedure_name>
    <procedure_url>http://www.medgle.com/rw/procedures/Viral+Culture</procedure_url>
    <procedure_layman>
    </procedure_layman>
    <procedure_definition>
    Viral Culture is diagnostic procedure used for diagnoses such as: enteroviral infections, influenza and respiratory syncytial virus.
    </procedure_definition>
    <procedure_type>diagnostic</procedure_type>
    <related_diagnoses>
      <diagnosis url="http://www.medgle.com/rw/diagnoses/enteroviral+infections/">enteroviral infections</diagnosis>
      <diagnosis url="http://www.medgle.com/rw/diagnoses/influenza/">influenza</diagnosis>
      <diagnosis url="http://www.medgle.com/rw/diagnoses/respiratory+syncytial+virus/">respiratory syncytial virus</diagnosis>
      <diagnosis url="http://www.medgle.com/rw/diagnoses/roseola+syndrome/">roseola syndrome</diagnosis>
    </related_diagnoses>
    <related_procedures>
      <procedure url="http://www.medgle.com/rw/procedures/Complete+Blood+Count/">Complete Blood Count</procedure>
      <procedure url="http://www.medgle.com/rw/procedures/PCR/">PCR</procedure>
      <procedure url="http://www.medgle.com/rw/procedures/ELISA/">ELISA</procedure>
      <procedure url="http://www.medgle.com/rw/procedures/Blood%2C+Platelet+Count/">Blood, Platelet Count</procedure>
    </related_procedures>
    <related_medications>
      <medication url="http://www.medgle.com/rw/drugs/Acetaminophen/">Acetaminophen</medication>
      <medication url="http://www.medgle.com/rw/drugs/Acylovir/">Acylovir</medication>
      <medication url="http://www.medgle.com/rw/drugs/Carvedilol/">Carvedilol</medication>
      <medication url="http://www.medgle.com/rw/drugs/Digoxin/">Digoxin</medication>
    </related_medications>
  </procedure>
</root>

```

```
</procedure>
</root>
```

task=getinfo :: <http://www.medgle.com/xml.jsp?task=getinfo&q=Amantadine>

```
<root>
  <logo type="small">http://www.medgle.com/logo/medglelogoBB.png</logo>
  <logo type="big">http://www.medgle.com/logo/medglelogoE.jpg</logo>
  <linkback_url>http://www.medgle.com/rw/drugs/amantadine</linkback_url>
  <linkback_text>Click here for more information</linkback_text>
  <medication>
    <medication_name>amantadine</medication_name>
    <medication_url>http://www.medgle.com/rw/drugs/amantadine</medication_url>
    <medication_definition>
      Amantadine is the organic compound known formally as 1-aminoadamantane. The molecule consists of adamantane backbone that is substituted at one of the four methyne positions with an amino group. This compound is sold under the name "Symmetrel," for use both as an antiviral and an antiparkinsonian drug. Rimantadine is a closely related derivative of adamantane with similar biological properties.

      It was approved by the U.S. Food and Drug Administration in October 1966 as a prophylactic agent against Asian influenza and eventually received approval for the treatment of Influenzavirus A [1] [2] [3] [4] in adults. In 1969 the drug was also discovered by accident to help reduce symptoms of Parkinson's disease and drug-induced extrapyramidal syndromes.

      As an antiparkinsonian it can be used as monotherapy; or together with L-DOPA to treat L-DOPA-related motor fluctuations (i.e., shortening of L-DOPA duration of clinical effect, probably related to progressive neuronal loss) and L-DOPA-related dyskinesias ( choreiform movements associated with long-term L-DOPA use, probably related to chronic pulsatile stimulation of dopamine receptors).

      There have been anecdotal reports, based on research by Dr. William Singer of Harvard University, that low-dose amantadine has been successfully used to treat ADHD. [5] Amantadine has been shown to relieve SSRI-induced anorgasmia in some people, though not in all people.

      Source: Wikipedia Feb 12, 2008
    </medication_definition>
    <related_diagnoses>
      <diagnosis>Parkinsonism</diagnosis>
      <diagnosis>influenza</diagnosis>
      <diagnosis>adult Huntington disease</diagnosis>
      <diagnosis>idiopathic daytime hypersomnolence</diagnosis>
    </related_diagnoses>
    <related_procedures>
      <procedure>Brain MRI</procedure>
      <procedure>Physical and Occupational Therapy</procedure>
      <procedure>CT brain</procedure>
      <procedure>PE tube insertion</procedure>
    </related_procedures>
    <related_medications>
      <medication url="http://www.medgle.com/rw/drugs/Bromocriptine/">Bromocriptine</medication>
      <medication url="http://www.medgle.com/rw/drugs/Clonazepam/">Clonazepam</medication>
      <medication url="http://www.medgle.com/rw/drugs/Midodrine/">Midodrine</medication>
      <medication url="http://www.medgle.com/rw/drugs/Modafinil/">Modafinil</medication>
    </related_medications>
  </medication>
</root>
```

task=getcompare :: <http://www.medgle.com/xml.jsp?task=getcompare&q=Upper%20respiratory%20infection,Influenza,Acute%20bronchitis,Pneumonia>

```
<root>
  <query>
    <diagnosis>upper respiratory infection</diagnosis>
    <diagnosis>influenza</diagnosis>
    <diagnosis>acute bronchitis</diagnosis>
    <diagnosis>pneumonia</diagnosis>
  </query>
  <symptoms type="incommon">
    <symptom>cough</symptom>
    <symptom>fever</symptom>
    <symptom>cough wet</symptom>
    <symptom>muscle ache generalized</symptom>
    <symptom>bodyache</symptom>
    <symptom>runny nose</symptom>
    <symptom>weakness</symptom>
  </symptoms>
  <symptoms type="differentiate">
    <symptom>throat tickle</symptom>
    <symptom>stuffy nose</symptom>
  </symptoms>
</root>
```

```

<symptom>altered sense of smell</symptom>
<symptom>sinus congestion</symptom>
<symptom>nasal discharge</symptom>
<symptom>taste alteration</symptom>
<symptom>shortness of breath with exercise</symptom>
</symptoms>
<procedures type="diagnostic">
<procedure url="http://www.medgle.com/rw/procedures/Complete+Blood+Count/">Complete Blood Count</procedure>
<procedure url="http://www.medgle.com/rw/procedures/Viral+Culture/">Viral Culture</procedure>
<procedure url="http://www.medgle.com/rw/procedures/ABG/">ABG</procedure>
<procedure url="http://www.medgle.com/rw/procedures/Blood%2C+Platelet+Count/">Blood, Platelet Count</procedure>
<procedure url="http://www.medgle.com/rw/procedures/Bronchoscopy/">Bronchoscopy</procedure>
<procedure url="http://www.medgle.com/rw/procedures/CT+chest/">CT chest</procedure>
<procedure url="http://www.medgle.com/rw/procedures/Chest+X-ray/">Chest X-ray</procedure>
<procedure url="http://www.medgle.com/rw/procedures/Culture+throat/">Culture throat</procedure>
</procedures>
<medications>
<medication score="2.0" url="http://www.medgle.com/rw/drugs/Acetaminophen/">Acetaminophen</medication>
<medication score="2.0" url="http://www.medgle.com/rw/drugs/Erythromycin/">Erythromycin</medication>
<medication score="2.0" url="http://www.medgle.com/rw/drugs/Oseltamivir/">Oseltamivir</medication>
<medication score="2.0" url="http://www.medgle.com/rw/drugs/Zanamivir/">Zanamivir</medication>
</medications>
</root>

```

task=gettranslation :: <http://www.medgle.com/xml.jsp?task=gettranslation&q=cough&tolanguage=spanish>

```

<root>
<logo type="small">http://www.medgle.com/logo/medglelogoBB.png</logo>
<logo type="big">http://www.medgle.com/logo/medglelogoE.jpg</logo>
<query>cough</query>
<translated>tos</translated>
<language>spanish</language>
</root>

```

task=gettype :: <http://www.medgle.com/xml.jsp?task=gettype&t=asthma>

```

<root>
<logo type="small">http://www.medgle.com/logo/medglelogoBB.png</logo>
<logo type="big">http://www.medgle.com/logo/medglelogoE.jpg</logo>
<query>asthma</query>
<type>diagnosis</type>
</root>

```

task=understand :: <http://www.medgle.com/xml.jsp?task=understand&t=heart>

```

<root>
<logo type="small">http://www.medgle.com/logo/medglelogoBB.png</logo>
<logo type="big">http://www.medgle.com/logo/medglelogoE.jpg</logo>
<type>procedure</type>
<value>HAART</value>
<type>symptom</type>
<value>heart flutter</value>
<type>symptom</type>
<value>heart racing</value>
<type>symptom</type>
<value>heart hurts</value>
<type>procedure</type>
<value>Heart Bypass</value>
</root>

```

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communication between upper and lower heart chambers||abnormal heart rhythm originating in upper chambers of heart||acute inflammation of sac surrounding heart||
asynchronous beating of upper and lower chambers of heart||backflow of blood through valve between lungs and heart||conditions affecting the heart valves that direct
blood flow between the chambers of the heart||congenital syndrome with facial heart and genitourinary anomalies||decreased heart function from last month of
pregnancy to five months after delivery||disease of heart muscle affecting pumping action of heart||disorder of heart rhythm in which electrical impulses are not completely
transmitted from the upper to the lower heart chambers||fluid in sac around heart||genetic disorder with heart failure and vision problems||genetic multisystem disorder
with heart disease, learning problems and abnormal facial features||heart disease present at birth||heart disease resulting from atherosclerosis||inflammation and scarring of
sac around heart||inflammation of sac around heart after heart surgery||inherited disease of skeletal muscles and heart||inherited disorder with abnormal bones and heart
disease||inherited multisystem disorder of growth with skeletal and heart defects||initiation of heart rhythm at tissue between upper and lower heart chambers||leaking
heart valve connecting left upper and lower heart chambers||leaking heart valve connecting right upper and lower heart chambers||lump in chest abutting heart and
lungs||narrowing of right sided heart valve connecting upper and lower heart chambers||rare condition in children causing inflammation of blood vessels and acquired
heart disease in children||rare genetic disease with heart defects and abnormal facial features||rare genetic disease with increased calcium levels and heart disease||reduced
blood supply to lungs because of tight heart valve between heart and lungs||replacement of normal heart muscle by scar and fat tissue and abnormal heart rhythm||
sudden accumulation of fluid in sac around heart preventing proper heart functioning||tight heart valve connecting left upper and lower chambers of heart||tight valve
decreasing blood flow from left heart to aorta||tumor of heart and associated symptoms||type of abnormal heart rhythm||type of abnormal heart rhythm involving two
upper heart chambers||type of heart arrhythmia arising from lower heart chambers||type of heart arrhythmia due to abnormal pathway between upper and lower heart
chambers||type of heart arrhythmia involving two upper heart chambers|
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|Angiogram Of Heart||Balloon Angioplasty Of Heart||Heart Valve Disease Treatment with Heart valve obtained from animals||Technique for visualizing the heart and its
arteries||Technique used to widen arteries of the heart||Use of radiowaves to disconnect pathways of abnormal heart rhythms||Widening of obstructed heart arteries||
ablation of nervous tissue between upper and lower chambers of heart in the treatment of certain arrhythmias||ablation therapy for heart arrhythmias||anti heart
antibodies||antibodies against heart tissue||surgical procedure in which a small hole is created between the upper two chambers of the heart|
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topicKey=~MdudBTKU5ba1fn

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        RECOVERY
        COMPLICATIONS Cardiac complications
        Bleeding
        Neurologic complications
        Renal failure
        Other complications.
        LONG-TERM OUTCOME Angina after surgery.
        CARE AFTER SURGERY
        <p>Early cardiac complications of coronary artery bypass graft surgery.
        <p>Minimally invasive aortic and mitral valve surgery.
        <p>Coronary heart disease.
        <p> INTRODUCTION &mdash; In coronary heart disease (CHD), the coronary arteries become clogged with calcium and fatty deposits.
        The deposits, called plaques, narrow the arteries that carry blood to the heart muscle ( show figure 1 ).
        <p>COMPLICATIONS &mdash; There are a number of complications that can occur after CABG.
        The major complications include bleeding that may require a return to the operating room, heart attack, heart failure, arrhythmia, stroke, changes in cognitive function,
        pulmonary problems, wound infection, renal failure, and death
        Postoperative complications may be related to the body's response to artificial blood circulation and gas exchange through the cardiopulmonary bypass apparatus
        <p>Cardiac complications &mdash; Many complications affect the heart directly
        . Two to 4 percent of patients experience a heart attack after surgery.
        <p>Atrial fibrillation after CABG is usually temporary; if persistent, patients may require treatment. ( See "Patient information: Atrial fibrillation" ).
        . Sustained ventricular tachycardia (a rapid and regular heart beat) or ventricular fibrillation (a rapid, chaotic, and ineffective heart beat) occurs in approximately 2 to 3
        percent of patients, usually within four days of surgery.
        An automatic internal defibrillator may be needed for selected patients. ( See "Patient information: Implantable cardioverter-defibrillators" ).
        <p>. Postoperative bradyarrhythmias cause the heart to beats too slow and requires placement of a permanent pacemaker in 0.8 to 4 percent of patients. ( See "Patient
        information: Pacemakers" ).
        . Pericarditis is an inflammation of the pericardium, the sac that surrounds the heart.
        Sometimes pericarditis is accompanied by pericardial effusion, in which the pericardial sac fills up with fluid.
        <p>If a large amount of fluid accumulates in the pericardium, it may push on and squeeze or constrict the heart, called cardiac tamponade.
        . Pericarditis often causes chest pain, which generally occurs a few days to several weeks after surgery.
        Pericardial effusions are usually small and resolve without treatment.
        If the effusion is large, urgent treatment or reoperation may be needed.
        Bleeding &mdash; Approximately 30 percent of patients require a blood transfusion after CABG.
        <p>Patients with heavy bleeding that requires reoperation often need multiple blood transfusions and stay longer in the intensive care unit and hospital.
        Only about 2 percent of people require surgery to stop excessive bleeding
        One factor that increases the risk of postoperative bleeding is exposure to aspirin in the week before surgery.
        However, some patients should continue aspirin therapy before CABG to maintain its beneficial effect.
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Troubleshooting

If you encounter any problems please contact us at medgle@medgle.com.