




## A Brief Overview

Jennifer Jentsch, MLS  
National Library of Medicine  
National Institutes of Health

# MedlinePlus.gov


NIH U.S. National Library of Medicine


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Trusted Health Information for You


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 **MedlinePlus**  
Información de salud para usted

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 **Medicinas y suplementos**  
Aprenda sobre sus medicamentos de receta, de venta libre, hierbas y suplementos

 **Videos y multimedia**  
Descubra tutoriales, videos de cirugías, juegos y herramientas virtuales

 **Enciclopedia médica**  
Artículos e imágenes sobre enfermedades, síntomas, exámenes, tratamientos

**Documentos de lectura fácil**

 **¿Qué es el virus Zika?**  
Entérese en nuestra nueva página

1 2 3 4 ▶

**Noticias sobre la salud**  
Adultos mayores pueden sufrir de problemas de salud tras cirugía para el cáncer  
Colorado: Vinculan a 'turistas de marihuana' con aumento de visitas a salas de emergencias  
Ejercicio + trabajo en clase podría ser = mejores resultados en matemáticas  
Más noticias de salud

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**Revista NIH MedlinePlus Salud**  
Lea el último número 

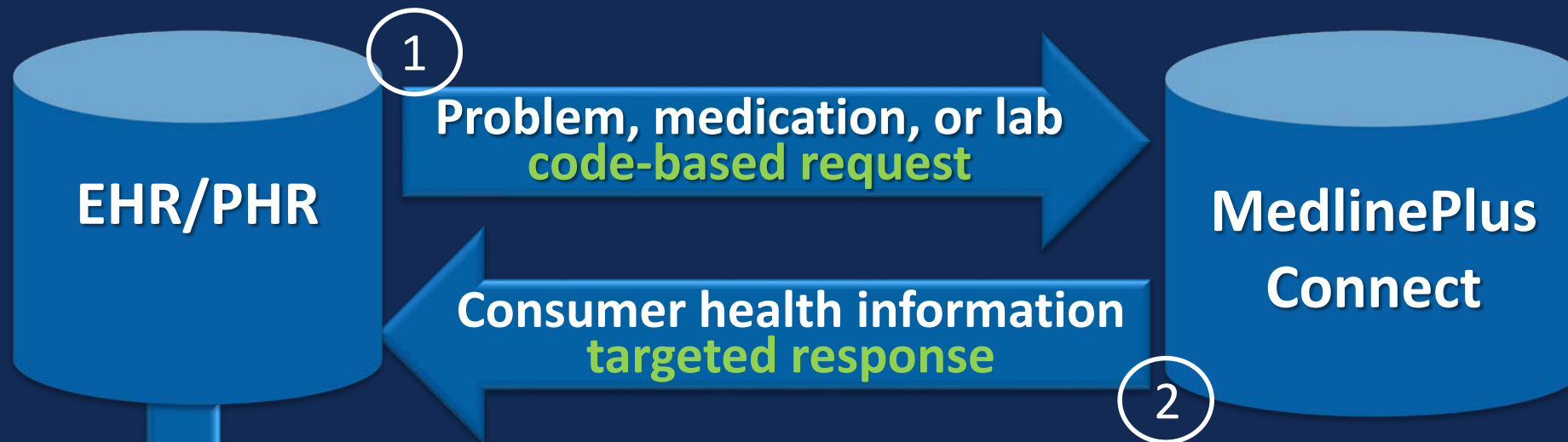
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## MedlinePlus Connect

API linking patient portals, electronic health record (EHR) systems, or health IT systems to targeted health information (patient education) from MedlinePlus.gov

# Code Systems: What is Being Requested

Type of Code	Code System
Problems/Diagnoses	ICD-9-CM ICD-10-CM SNOMED CT
Medications	RXCUI NDC
Labs	LOINC



Patient portal



Clinical system

# Two versions: Application & Service

Web Application	Web Service
Queried via an HL7-compliant, URL-based information request	
Accepts queries for problems (diagnoses), medications, and lab tests.	
Returns an HTML page with links and (for problems) an image and a snippet of a summary.	Returns an HL7-compliant response in XML, JSON, or JSONP format.
Easier to implement.	More flexible.

## Sending a problem/diagnosis code returns

- brief summary
- link to **Health Topic Page** and **Patient Handouts** on **MedlinePlus.gov**

### Heart Attack

Also called: MI, Myocardial infarction

Each year over a million people in the U.S. have a heart attack. About half of them die. Many people have permanent heart damage or die because they don't get help immediately. It's important to know the symptoms of a heart attack and call 9-1-1 if someone is having them. Those symptoms include


- Chest discomfort - pressure, squeezing, or pain
- Shortness of breath
- Discomfort in the upper body - arms, shoulder, neck, back
- Nausea, vomiting, dizziness, lightheadedness, sweating

These symptoms can sometimes be different in [women](#).

What exactly is a heart attack? Most heart attacks happen when a [clot](#) in the coronary artery blocks the supply of blood and oxygen to the heart. Often this leads to an irregular heartbeat - called an [arrhythmia](#) - that causes a severe decrease in the pumping function of the heart. A blockage that is not treated within a few hours causes the affected heart muscle to die.

*NIH: National Heart, Lung, and Blood Institute*

#### Selected resources

- [Being active after your heart attack](#) (Medical Encyclopedia)
- [Cardiac catheterization - discharge](#) (Medical Encyclopedia)
- [Heart attack](#) (Medical Encyclopedia)
- [Heart attack - discharge](#) (Medical Encyclopedia)
- [Learn What a Heart Attack Feels Like--It Could Save Your Life](#)  
 **Easy-to-Read** (National Heart, Lung, and Blood Institute) - PDF

Sending a medication code returns

- link to **Drug Information Page** on MedlinePlus.gov

Example:

NDC code 0069-0043-01  
HEPARIN SODIUM -  
injection



returns link to  
Heparin Injection  
article \*



Sending a lab test code returns

- link to **Lab Test Information Page** on MedlinePlus.gov

Example:

LOINC code 4548-4  
Hemoglobin  
A1c/Hemoglobin.total in  
Blood



returns link to A1C  
test article \*

# Request Structure

Base URL - Web Application

<https://apps.nlm.nih.gov/medlineplus/services/mpconnect.cfm>

Base URL - Web Service

[https://apps.nlm.nih.gov/medlineplus/services/mpconnect\\_service.cfm](https://apps.nlm.nih.gov/medlineplus/services/mpconnect_service.cfm)

Code System            [mainSearchCriteria.v.cs](#)

Specific Code           [mainSearchCriteria.v.c](#)

Text                    [mainSearchCriteria.v.dn](#)

Language               [informationRecipient.languageCode.c](#)

# Technical Documentation

<https://medlineplus.gov/connect/technical.html>

Web Application  
Demo

<https://apps.nlm.nih.gov/medlineplus/services/demo.html>

Web Service  
Demo

<https://apps.nlm.nih.gov/medlineplus/services/servicedemo.cfm>



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