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2017-11-07

## How the National Library of Medicine Can Add Evidence To Your mHealth App

Susan Halpin

*University of Massachusetts Medical School*

*Et al.*

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# How the National Library of Medicine (NLM) Resources Can Add Evidence to Your Mobile Health App

Presented by National Network of Libraries of Medicine & UConn Center for mHealth and Social Media



# About your Webinar Hosts



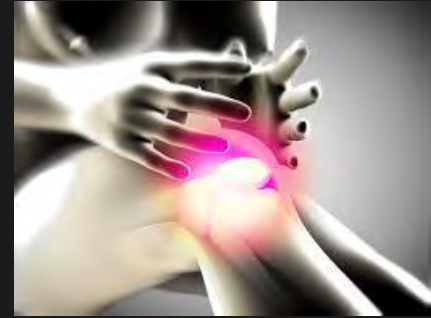
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UConn Center for mHealth  
and Social Media  
University of Connecticut  
Storrs, Connecticut

# Many commercial health apps lack evidence-based strategies

- Obesity (Pagoto et al 2012, Rivera et al 2016)
- Physical activity (Modave et al 2015, Conroy et al 2014)
- Arthritis (Geuens et al 2016)
- Stress management (Coulon et al 2016)
- Eating disorders (Juarascio et al 2015)
- Smoking cessation (Jacobs et al 2014)
- HIV prevention (Muessig et al 2013)



# Ways to incorporate evidence into apps

**Have app deliver an evidence-based behavior change strategy**

**Have app deliver an evidence-based behavior change strategy**

- Self-monitoring is most popular example employed by apps
- Michie's behavior change taxonomy includes numerous behavioral strategies
- Evidence-based protocols available for many behavioral issues



**Have app provide user with evidence-based health information**

- Big question is: [what is an evidence-based resource? Is it vetted? Up-to-date?](#)

# Purpose of Today's Webinar

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- Introduce you to NLM and the FREE Health & Medical websites databases and tools. Why are NLM resources better than commercial websites such as WebMd?
- Demonstrate how NLM resources carry out the mission to improve public health.
- Provide examples of how these health related resources can add value to your app



# What Makes a Resource Good?

CLEVELAND CLINIC  
JOURNAL OF MEDICINE

Cardiology Diabetes Drug Therapy Hepatology Hospital Medicine Infectious Diseases Women's Health MC

 Are you screening for the virus that infects 1 out of 30 of your Baby Boomer patients? [Learn more](#)

UNBP2836 12/16  
Advertisement

REVIEWS

**Staying afloat in a sea of information: Point-of-care resources**

*Cleveland Clinic Journal of Medicine*. 2017 March;84(3):225-235

**Author(s):** Rebecca Andrews, MS, MD, FACP, Neil Mehta, MBBS, MS, FACP, Jack Maypole, MD, Stephen A. Martin, MD, EdM

[Author and Disclosure Information](#)

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PATIENTS ABOUT HCV**

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HCV. THE FORGOTTEN VIRUS.

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Opinion

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Interest



# About National Library of Medicine (NLM)



Physical library is Bethesda, MD part of the NIH campus.

Largest biomedical library in the world

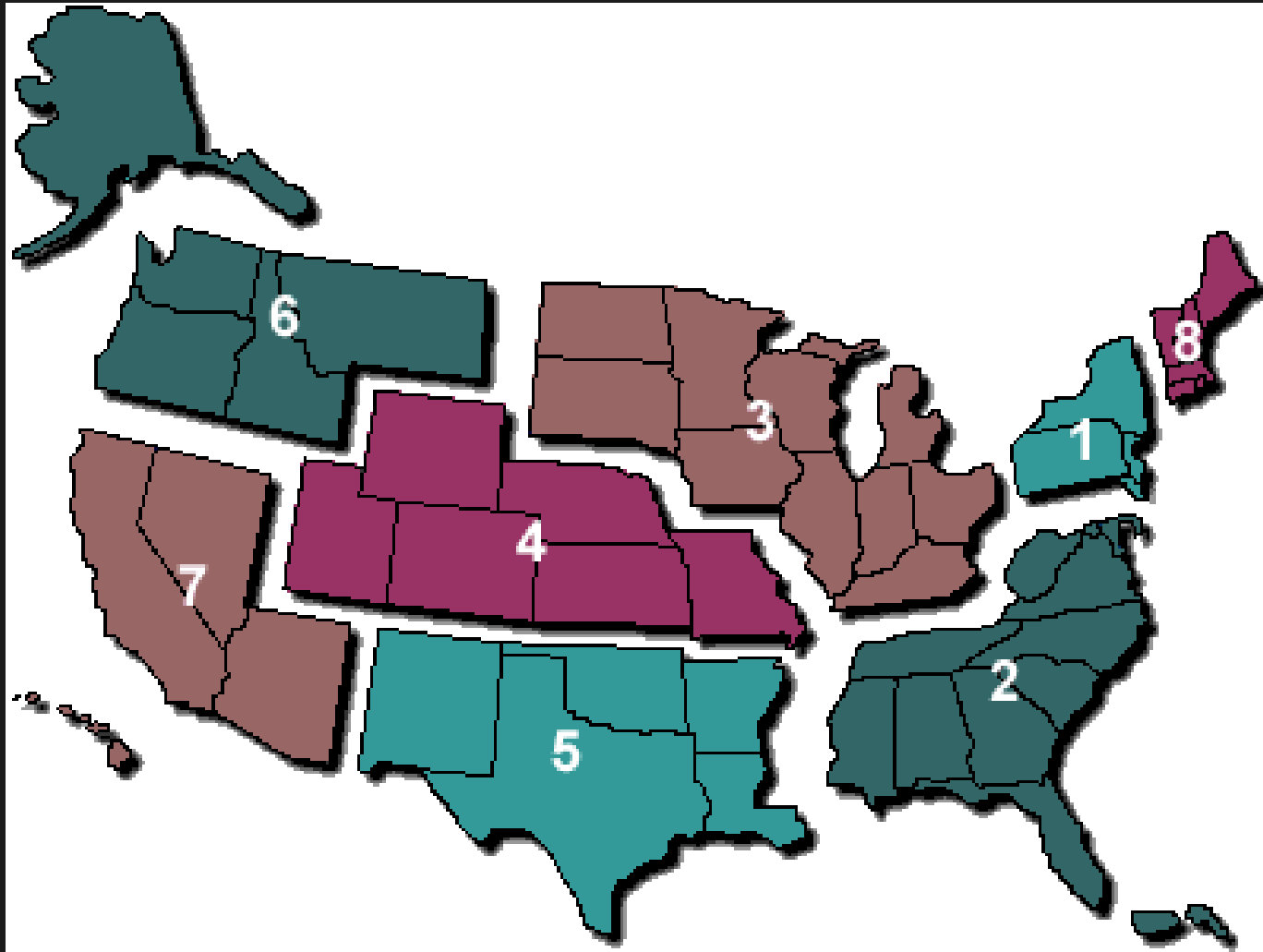
One of the federal government's largest providers of digital content

The library is open to everyone

## **NLMs mission**

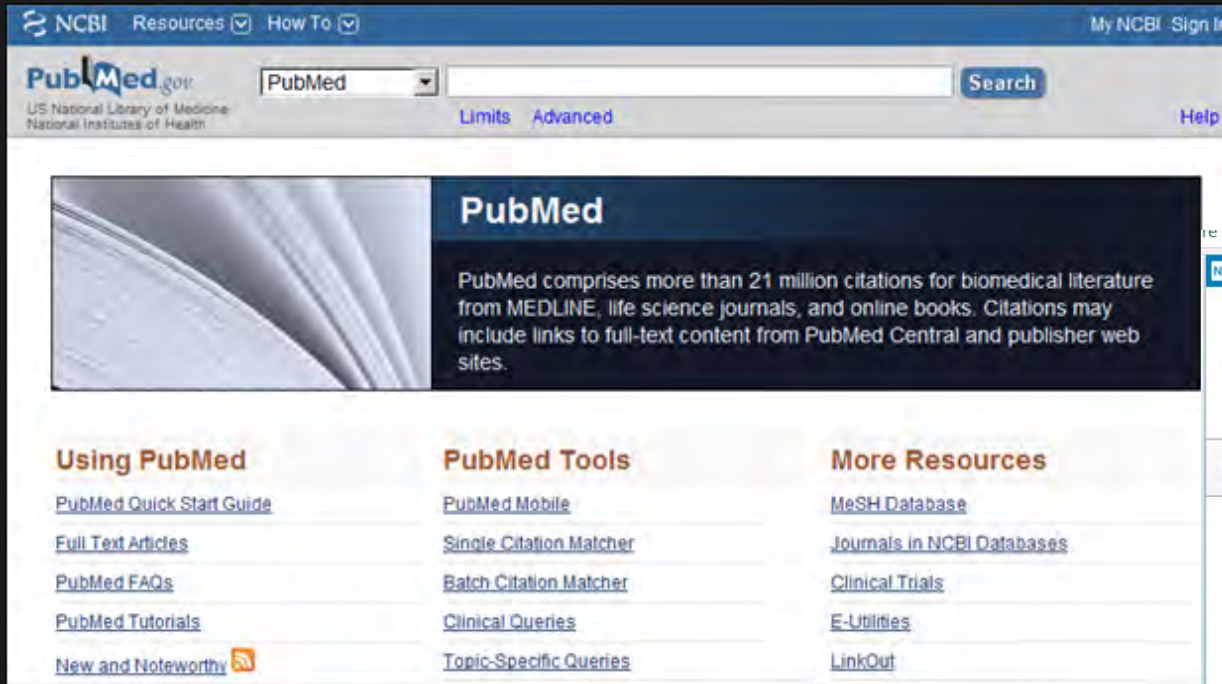
*Advance the progress of medicine and improve public health by making biomedical information accessible to everyone.*

# NLM Carries Out its Mission Through National Network of Libraries of Medicine (NNLM)



- Nationwide network of health sciences libraries, public libraries & information centers
- Each region has a partnership with a regional medical library
- Outreach provided through
  - Free access to online resources**
  - Training & PD**
  - Grant funding opportunities**

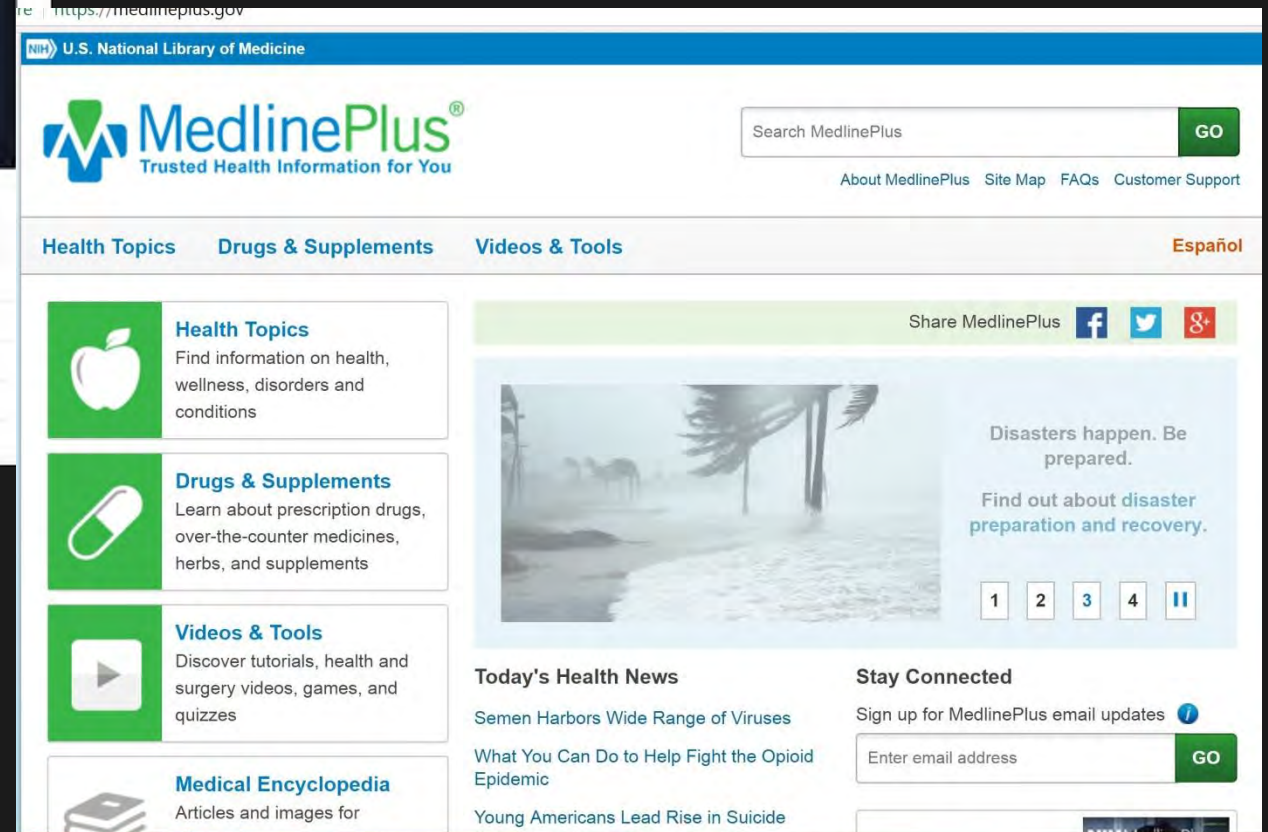
# NLM Resources you know...



The screenshot shows the PubMed homepage. At the top, there's a navigation bar with "NCBI", "Resources", and "How To". Below this is the "PubMed.gov" logo and a search bar with a "Search" button. A banner image of a book spine is on the left, and a text box on the right describes PubMed's content. Below the banner, there are three columns of links: "Using PubMed" (Quick Start Guide, Full Text Articles, FAQs, Tutorials, New and Noteworthy), "PubMed Tools" (Mobile, Single Citation Matcher, Batch Citation Matcher, Clinical Queries, Topic-Specific Queries), and "More Resources" (MeSH Database, Journals in NCBI Databases, Clinical Trials, E-Utilities, LinkOut).

<https://www.ncbi.nlm.nih.gov/pubmed/>

<https://medlineplus.gov/>



The screenshot shows the MedlinePlus homepage. At the top, there's a navigation bar with "U.S. National Library of Medicine". Below this is the "MedlinePlus" logo and a search bar with a "GO" button. A banner image of a beach with palm trees is on the left, and a text box on the right describes disaster preparedness. Below the banner, there are three columns of links: "Health Topics" (Find information on health, wellness, disorders and conditions), "Drugs & Supplements" (Learn about prescription drugs, over-the-counter medicines, herbs, and supplements), and "Videos & Tools" (Discover tutorials, health and surgery videos, games, and quizzes). At the bottom, there's a "Medical Encyclopedia" section and a "Stay Connected" section with a sign-up form.




# NLM Partners

Partners in Information Access for the Public Health Workforce <https://phpartners.org/>

Public Health Topic Pages

NICHSR ONESearch



**Partners**  
in Information Access for  
the Public Health Workforce

*A collaboration of U.S. government agencies, public health organizations and health sciences libraries*

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**Our Mission**  
Helping the public health workforce find and use information effectively to improve and protect the public's health

**Public Health Topic Pages**

- ▶ Bioterrorism
- ▶ Dental Public Health
- ▶ Environmental Health
- ▶ HIV/AIDS
- ▶ How to Access Journal Articles
- ▶ Nutrition
- ▶ Obesity
- ▶ Public Health Genomics
- ▶ Veterinary Public Health
- ▶ Workforce Development

**Main Topic Pages**

- ▶ Health Promotion and Health Education
- ▶ Literature and Guidelines
- ▶ Health Data Tools and Statistics
- ▶ Public Health Workforce Data
- ▶ Grants and Funding
- ▶ Education and Training
- ▶ Legislation and Policy
- ▶ Conferences and Meetings
- ▶ Finding People
- ▶ Discussion and E-mail Lists
- ▶ Jobs and Careers

**Current Public Health News**

[The Appalachia Initiative: A Bipartisan Approach for the 21st Century \(September 2017\)](#) - 14-SEP-2017

[National 4-H Council and the Robert Wood Johnson Foundation Partner to Empower Youth in Creating Healthier Communities](#) - 14-SEP-2017

[Social Determinants of Health Resource Series](#) - 14-SEP-2017


[Breastfeeding Savings Calculator](#) - 14-SEP-2017

[Surveillance for Certain Health Behaviors and Conditions Among States and Selected Local Areas - Behavioral Risk Factor Surveillance System, United States, 2013 and 2014](#) - 14-SEP-2017

[more news](#)

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One website to search them all: HSRProj, HSRR, HSRIC, PHPartners


**Partners:**

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[Practice Informed by Research](#)  
   
[Structured Evidence Queries](#)

 **Public Health Information and Data Tutorial**

**Disaster Lit: The Resource Guide for Disaster Medicine and Public Health**

  
**VitalSigns**  
Learn about the latest public health data.  
[Read CDC Vital Signs](#)

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[thisispublichealth.org](#)

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Page Last Updated: 14 SEP 2017



# Why Use NLM Resources?

What is the AD?

What is the information  
you were looking for?

The screenshot shows the WebMD homepage. At the top, there are navigation links: "CHECK YOUR SYMPTOMS", "FIND A DOCTOR", "FIND LOWEST DRUG PRICES", "SIGN IN", and "SUBSCRIBE". Below these are category links: "HEALTH A-Z", "DRUGS & SUPPLEMENTS", "LIVING HEALTHY", "FAMILY & PREGNANCY", and "NEWS & EXPERTS". A search bar is located on the right. A red oval highlights an advertisement for "Living with Osteoarthritis KNEE PAIN?" with the text "Avoid 3 key mistakes when seeking treatment" and a "Learn More" link. Below the ad is an article titled "Are 'Green' Cleaners Better?" with a sub-headline "Do they work? And are they really better for you -- and the Earth -- than conventional cleaners?" and a link "More: Clean Up Germs Around the House". To the right of the article is an image of cleaning supplies. Below the article is a "Trending Videos" section with three video thumbnails: "Innovative Pen Spots Cancer in Seconds", "How to Prep for a Colonoscopy", and "I Have Schizophrenia". A red oval highlights a yellow box on the right side of the page with the text "If your treatment for metastatic breast cancer stops working, do you know ALL your options?" and a "LEARN MORE" link. A blue arrow points from the text "What is the AD?" to the red oval around the knee pain ad. Another blue arrow points from the text "What is the information you were looking for?" to the red oval around the breast cancer information box.

WebMD

CHECK YOUR SYMPTOMS FIND A DOCTOR FIND LOWEST DRUG PRICES SIGN IN SUBSCRIBE

HEALTH A-Z DRUGS & SUPPLEMENTS LIVING HEALTHY FAMILY & PREGNANCY NEWS & EXPERTS SEARCH

ADVERTISEMENT

Living with Osteoarthritis KNEE PAIN? Avoid 3 key mistakes when seeking treatment Learn More US.SYN.15.10.041

## Are 'Green' Cleaners Better?

Do they work? And are they really better for you -- and the Earth -- than conventional cleaners?

More: Clean Up Germs Around the House

## Trending Videos

Innovative Pen Spots Cancer in Seconds

How to Prep for a Colonoscopy

'I Have Schizophrenia'

If your treatment for metastatic breast cancer stops working, do you know ALL your options? LEARN MORE

ADVERTISEMENT

# Why Use NLM Resources?

NIH U.S. National Library of Medicine

**MedlinePlus®**  
Trusted Health Information for You

Search MedlinePlus **GO**

About MedlinePlus Site Map FAQs Customer Support

Health Topics Drugs & Supplements **Videos & Tools** Español


**Health Topics**  
Find information on health, wellness, disorders and conditions

**Drugs & Supplements**  
Learn about prescription drugs, over-the-counter medicines, herbs, and supplements

**Videos & Tools**  
Discover tutorials, health and surgery videos, games, and quizzes

**Lab Test Information**  
Learn why your doctor orders laboratory tests and what the results may mean


**Medical Encyclopedia**  
Articles and images for diseases, symptoms, tests, treatments

Share MedlinePlus   

**MedlinePlus now has lab test information!**  
Learn why your doctor ordered a lab test, and what the results may mean.

1 2 3 4 ▶

**Today's Health News**  
About Half of Americans Get Health Care in ER  
Are Stents Really Useless After Chest Pain? Cardiologists Not Sure  
Eat Well, Age Well  
More health news

**Stay Connected**  
Sign up for MedlinePlus email updates   
Enter email address **GO**

**NIH MedlinePlus Magazine**  
Read the latest issue





# Evidence Based Information at Your Fingertips

## National Library of Medicine®

*Evidence-based Information At Your Fingertips*



### AIDSinfo®

Resource providing the latest FDA-approved treatment guidelines for healthcare professionals as well as information on treatment, prevention, and research.

[aidsinfo.nih.gov](http://aidsinfo.nih.gov)  
[infoaids.nih.gov](http://infoaids.nih.gov)

### ClinicalTrials.gov

Searchable database providing information about current ongoing clinical research studies on drugs and treatments.

[clinicaltrials.gov](http://clinicaltrials.gov)

### DailyMed®

Information about marketed drugs, with FDA labeling (package insert) and links to other key information resources.

[dailymed.nlm.nih.gov](http://dailymed.nlm.nih.gov)

### Dietary Supplement Label Database (DSLDB)

Collaborative project between the Office of Dietary Supplements (ODS) at National Institutes of Health (NIH) and NLM containing full label content from U.S. marketed dietary supplements and providing search filters to assist consumers.

[dslb.nlm.nih.gov](http://dslb.nlm.nih.gov)

### Drug Information Portal

Portal to current drug information from NLM and other Federal agencies. Information on drugs from the time that they are in clinical trials, through their FDA approval process, and then on to the marketplace.

[druginfo.nlm.nih.gov](http://druginfo.nlm.nih.gov)

### Genetic Home Reference™

Consumer-friendly information about the effects of genetic variations on human health.

[ghr.nlm.nih.gov](http://ghr.nlm.nih.gov)

### Haz-Map®

Occupational database linking jobs and hazardous tasks with occupational diseases and their symptoms.

[hazmap.nlm.nih.gov](http://hazmap.nlm.nih.gov)

### Health Services and Sciences Research Resources

Database for healthcare research and health sciences literature and data resources used in health services research, the behavioral and social sciences, and public health.

[nlm.nih.gov/nichs/nhsrr\\_search](http://nlm.nih.gov/nichs/nhsrr_search)

### Information Rx

Initiative program to help people better understand health information, to enhance communication between healthcare providers and patients, and to encourage the use of evidence-based health information on the Internet.

[informationrx.org](http://informationrx.org)

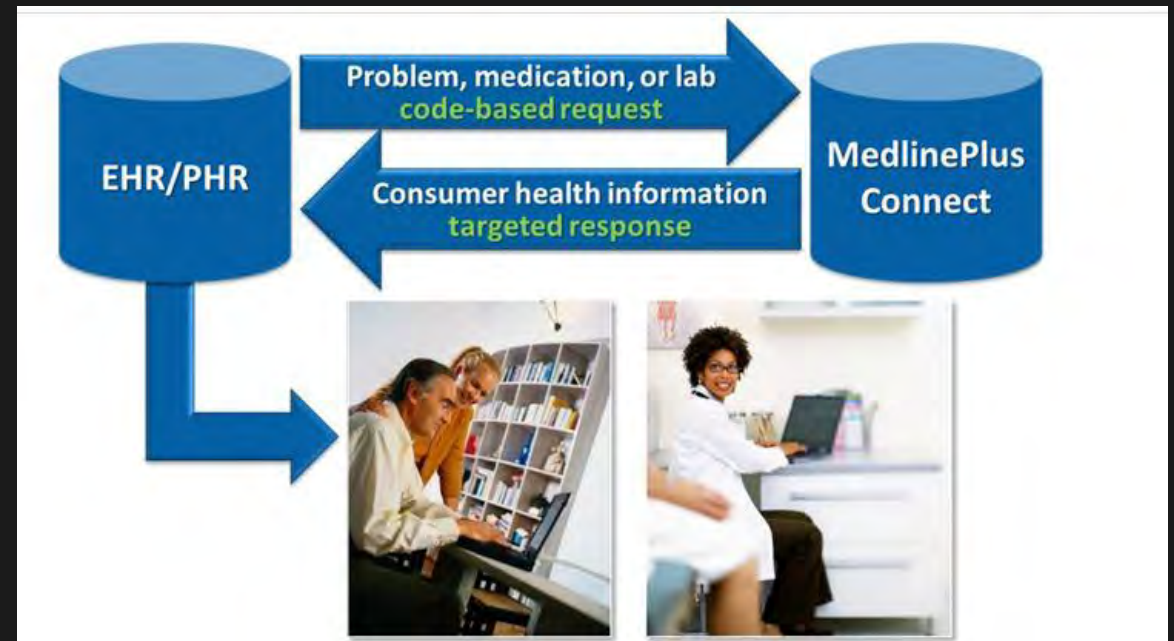
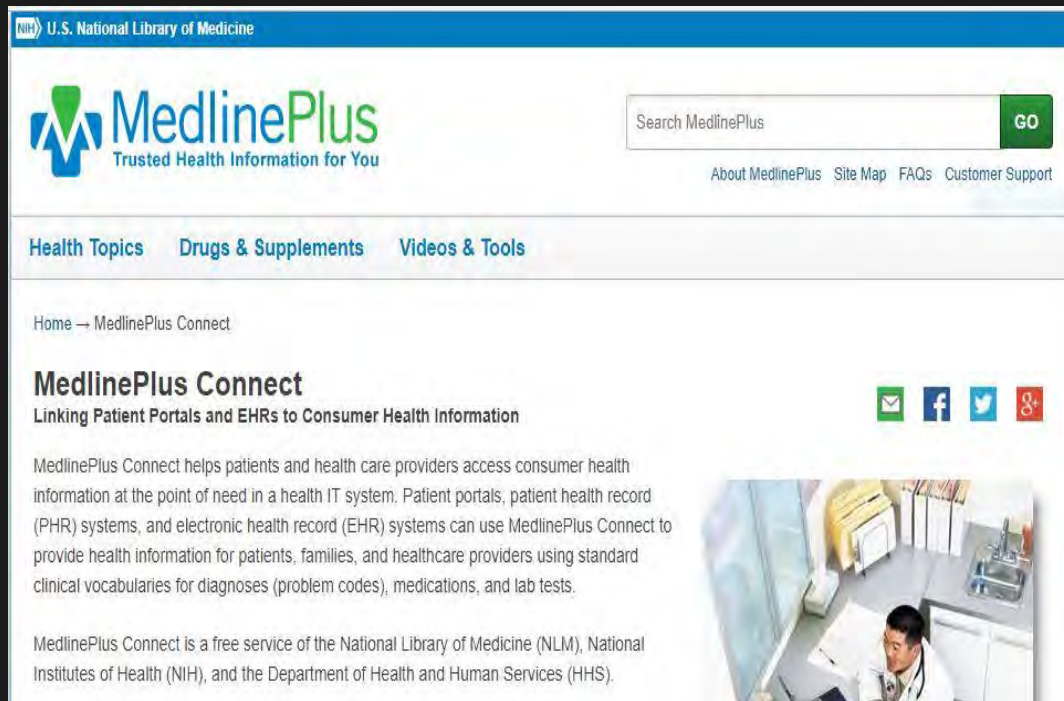
©2010 NLM

<https://sis.nlm.nih.gov/outreach/evidencebasedinformation.pdf>

# NLM Resources Helpful for mHealth Developers

## MedlinePlus Connect

### Linking Patient Portals and EHRs to Consumer Health Information



MedlinePlus API is available as a Web application or a Web service.




# DailyMed

NIH U.S. NATIONAL LIBRARY OF MEDICINE REPORT ADVERSE EVENTS | RECALLS





**DAILYMED**

ALL DRUGS | HUMAN DRUGS | ANIMAL DRUGS

Search:  

MORE WAYS TO SEARCH: [ADVANCED SEARCH](#) [BROWSE DRUG CLASSES](#) [LABEL ARCHIVES](#) [TABLET/CAPSULE ID TOOL](#)

This website contains 96667 drug listings as submitted to the Food and Drug Administration (FDA).  
At the present time, this Web site does not contain a complete listing of labels for approved prescription drugs.

SHARE    

## NEWS

### [DailyMed Announcements](#)

Posted: July 19, 2017

#### DailyMed/RxNorm Jamboree Workshop 2017

NLM's 5th annual Jamboree will take place Tuesday, September 19, 2017, in the Lister Hill Auditorium at NLM on the NIH campus in Bethesda, MD. Speakers from the Federal government, industry, pharmacy standards groups, and others will present. The emphasis is always on practical and novel ways to use and understand this free drug information, which is produced and consumed by a number of Federal agencies.


Registration is required, and seating is limited. While the proceedings will be webcast and archived, in-person attendance offers greater opportunity to exchange ideas, questions, and insights with your peers. Please find registration and agenda information here: <https://www.nlm.nih.gov/nleesh/jamboree/2017.html>

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## FDA GUIDANCES & INFORMATION


### [Drug Guidance, Compliance & Regulatory Information](#)

 [View FDA Structured Product Labeling Resources](#)  
[View FDA Drug Labeling Guidances](#)  
[View All FDA Drug Guidances](#)


## NLM SPL RESOURCES

The following Structured Product Labeling (SPL) resources have been created to assist industry professionals:

[Download Data](#)

 [All Drug Labels](#)  
[All Indexing & REMS Files](#)  
[All Mapping Files](#)

[SPL Image Guidelines](#)

 Guidelines for SPL image files of oral solid dosage forms that are submitted to the FDA with SPL documents.

<https://dailymed.nlm.nih.gov/dailymed/>

# Search for Adderall in DailyMed

NIH U.S. NATIONAL LIBRARY OF MEDICINE

REPORT ADVERSE EVENTS | RECALLS

DAILYMED

ALL DRUGS HUMAN DRUGS ANIMAL DRUGS MORE WAYS TO SEARCH

Adderall

HOME + NEWS FDA GUIDANCES & INFO + NLM SPL RESOURCES + APPLICATION DEVELOPMENT SUPPORT HELP

SEARCH RESULTS FOR: Adderall (5 results)

Sort By Relevance < previous | page 1 of 1 | next > 20 results/pg

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ADDERALL (dextroamphetamine saccharate, amphetamine aspartate, dextroamphetamine sulfate, and amphetamine sulfate) ... [view full title](#)  
NDC Code(s): 57844-105-01, 57844-110-01, 57844-112-01, 57844-115-01, [view more](#)  
Packager: Teva Select Brands

VIEW MORE

ADDERALL XR (dextroamphetamine sulfate, dextroamphetamine saccharate, amphetamine sulfate and amphetamine aspartate) ... [view full title](#)  
NDC Code(s): 54092-381-01, 54092-383-01, 54092-385-01, 54092-387-01, [view more](#)  
Packager: Shire US Manufacturing Inc.

VIEW MORE

ADDERALL (dextroamphetamine saccharate, amphetamine aspartate, dextroamphetamine sulfate, and amphetamine sulfate) ... [view full title](#)  
NDC Code(s): 63629-3768-1  
Packager: Bryant Ranch Prepack  
This is a repackaged label.  
[Source NDC Code\(s\): 0555-0764](#)

VIEW MORE

ADDERALL (dextroamphetamine saccharate, amphetamine aspartate, dextroamphetamine sulfate, and amphetamine sulfate) ... [view full title](#)  
NDC Code(s): 63629-3769-1  
Packager: Bryant Ranch Prepack

VIEW PACKAGE PHOTOS

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SAFETY

Boxed Warnings

Report Adverse Events

FDA Safety Recalls

Presence in Breast Milk

RELATED RESOURCES

Medline Plus

Clinical Trials

+ PubMed

Biochemical Data Summary

MORE INFO FOR THIS DRUG

View Label Archives

RxNorm

Get Label RSS Feed

NDC Code(s): 54092-381-01, 54092-383-01, 54092-385-01, 54092-387-01, [view more](#)  
Packager: Shire US Manufacturing Inc.

Category: HUMAN PRESCRIPTION DRUG LABEL  
DEA Schedule: CII  
Marketing Status: New Drug Application

Updated October 4, 2017

DRUG LABEL INFORMATION

If you are a consumer or patient please visit [this version](#).

DOWNLOAD DRUG LABEL INFO: PDF | XML | MEDICATION GUIDE: HTML | OFFICIAL LABEL (PRINTER FRIENDLY)

VIEW ALL SECTIONS

BOXED WARNING [\(WHAT IS THIS?\)](#)

WARNING: POTENTIAL FOR ABUSE

Amphetamines have a high potential for abuse. Administration of amphetamines for prolonged periods of time may lead to drug dependence. Pay particular attention to the possibility of subjects obtaining amphetamines for non-therapeutic use or distribution to others and the drugs should be prescribed or dispensed sparingly [see [DRUG ABUSE AND DEPENDENCE \(9\)](#)].

Misuse of amphetamine may cause sudden death and serious cardiovascular adverse reactions.

[CLOSE](#)

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use ADDERALL XR safely and effectively. See full prescribing information for ADDERALL XR. ADDERALL XR® (mixed salts of a ...

FULL PRESCRIBING INFORMATION: CONTENTS\*

Table of Contents

1 INDICATIONS AND USAGE

1.1 Attention Deficit Hyperactivity Disorder - ADDERALL XR® is indicated for the treatment of attention deficit hyperactivity disorder (ADHD). The efficacy of ...

2 DOSAGE AND ADMINISTRATION

2.1 Dosing Considerations for all Patients - Individualize the dosage according to the therapeutic needs and response of the patient. Administer ADDERALL XR at the ...

3 DOSAGE FORMS AND STRENGTHS

ADDERALL XR 5 mg capsules: Clear/blue (imprinted ADDERALL XR 5 mg) ADDERALL XR 10 mg capsules: Blue/white (imprinted ADDERALL XR 10 mg) ADDERALL XR 15 mg capsules: Blue/white (imprinted ADDERALL XR 15 mg) ADDERALL XR 20 mg capsules: Blue/white (imprinted ADDERALL XR 20 mg)



# Pillbox

<https://pillbox.nlm.nih.gov/pilimage/search.php>

**Pillbox** rapid identification, reliable information

United States  
National Library of Medicine  
National Institutes of Health **NLM**

[Home](#) [About](#) [FAQ](#) [Developer](#) [Contact Us](#)

**Identify or Search for a Pill**

**Imprint:**   
☐ Pill does not have an imprint.

**Drug Name or Ingredient(s):**

**Shape:**

**Inactive Ingredient(s):**   
☐ Find pills WITHOUT this ingredient.

**Color:**

**Label Author:**

**Size:**

**DEA Schedule:**

**Score:** ☒ Unknown ☐ 1 ☐ 2 ☐ 3 ☐ 4

**Product Code:**  -

☒ Do not search repackaged and relabeled medications.


**Discover**

There's more to a pill than how it looks. What's inside the pill other than the drug? Is it a controlled substance?

**Connect**

Learn more than the pill's name. Pillbox links you to the drug label, clinical trials, breastfeeding safety, and more.

**Explore**



Pillbox's advanced search app has been retired. A new Pillbox website is in development that has the same features as the advanced search and runs on phones, tablets, and desktop browsers.

[National Library of Medicine](#) [National Institutes of Health](#) [U.S. Dept. of Health & Human Services](#) [Copyright](#) [Accessibility](#)

Data version: May 10, 2016







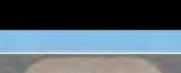
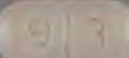


# Pillbox Search

**Pillbox** Rapid Identification, Reliable Information  
National Institutes of Health

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[Show Search Criteria](#)

**Search Results:** 535 record(s) for "Oval | Orange". **Display:** 1 - 40

 	<b>Name:</b> Lisinopril - Lisinopril 5 MG Oral Tablet <b>Ingredient(s):</b> LISINOPRIL <b>Imprint:</b> WW;66 <b>Label Author:</b> West-Ward Pharmaceutical Corp
<a href="#">Show More Information</a>	<a href="#">Drug Label</a> <a href="#">Drug Information Links</a>
 	<b>Name:</b> PEXEVA - Paroxetine 20 MG Oral Tablet [Pexeva] <b>Ingredient(s):</b> Paroxetine mesylate <b>Imprint:</b> 20mg;POT20;[or];POT;20 <b>Label Author:</b> NOVEN THERAPEUTICS, LLC
<a href="#">Show More Information</a>	<a href="#">Drug Label</a> <a href="#">Drug Information Links</a>
	<b>Name:</b> Hectorol - Doxercalciferol 0.001 MG Oral Capsule [Hectorol] <b>Ingredient(s):</b> DOXERCALCIFEROL mixture with COCONUT OIL and GELATIN and GLYCERIN and TITANIUM DIOXIDE and ALCOHOL and BUTYLATED HYDROXYANISOLE and FD&C YELLOW NO. 6 <b>Imprint:</b> g <b>Label Author:</b> Genzyme Corporation
<a href="#">Show More Information</a>	<a href="#">Drug Label</a> <a href="#">Drug Information Links</a>
 	<b>Name:</b> Clonidine Hydrochloride - Clonidine Hydrochloride 0.2 MG Oral Tablet <b>Ingredient(s):</b> CLONIDINE HYDROCHLORIDE <b>Imprint:</b> 25;42;V <b>Label Author:</b> Qualitest Pharmaceuticals
<a href="#">Show More Information</a>	<a href="#">Drug Label</a> <a href="#">Drug Information Links</a>
 	<b>Name:</b> Trandolapril - trandolapril 1 MG Oral Tablet <b>Ingredient(s):</b> TRANDOLAPRIL <b>Imprint:</b> 9;3;7325 <b>Label Author:</b> Teva Pharmaceuticals USA Inc
<a href="#">Show More Information</a>	<a href="#">Drug Label</a> <a href="#">Drug Information Links</a>
	<b>Name:</b> Simvastatin - Simvastatin 10 MG Oral Tablet <b>Ingredient(s):</b> SIMVASTATIN

**Search Results:** 535 record(s) for "Oval | Orange". **Display:** 1 - 40



**Name:** Lisinopril - Lisinopril 5 MG Oral Tablet

**Ingredient(s):** LISINOPRIL

**Imprint:** WW;66

**Label Author:** West-Ward Pharmaceutical Corp

[Hide More Information](#)

[Drug Label](#)

[Drug Information Links](#)

**Color(s):** Pink, Orange

**Shape:** Oval

**Size (mm):** 8.00

**Score:** 2

**Inactive Ingredient(s):** starch, corn / silicon dioxide / calcium phosphate, dibasic, anhydrous / magnesium stearate / mannitol / ferric oxide red / sodium starch glycolate type a potato

**DEA Schedule:** Non-scheduled

**Product Code:** 0143-1266



# NLM Disaster Resources and Apps








<https://disasterinfo.nlm.nih.gov>

How Does NLM Select Partner Sites/Organizations?

<https://disasterinfo.nlm.nih.gov/dimrc/disasterapps.html#selection-guidelines>

**Packing Your Digital Go Bag**  
**Disaster and Emergency Apps**

<https://disaster.nlm.nih.gov/apps>

Icon	Mobile Access	Description
	<b>WISER</b> iPhone Android Blackberry Mobile Web	<b>WISER</b> (Wireless Information System for Emergency Responders) from the National Library of Medicine (NLM) assists first responders in Hazmat incidents, with features including substance identification support, containment and suppression advice, and medical treatment information. Includes CHEMM content.
	<b>REMM</b> iPhone Android Blackberry	<b>REMM</b> (Radiation Emergency Medical Management) from NLM provides guidance about clinical diagnosis and treatment of radiation injuries during radiological and nuclear emergencies.
	<b>SAMHSA Behavioral Health Disaster Response</b> iPhone Android Blackberry	<b>SAMHSA Behavioral Health Disaster Response</b> connects behavioral health responders to evidenced-based behavioral health resources for use in the field. Users can access pre-loaded resources when Internet connectivity is limited, locate nearby treatment facilities, search for key materials and share information with colleagues and survivors.
	<b>CDC</b> iPhone Mobile Web	<b>Centers for Disease Control and Prevention (CDC)</b> app and mobile web page provide health and safety information related to emergencies and disasters.
	<b>FEMA</b> iPhone Android Blackberry	The <b>FEMA</b> app and mobile enhanced web page provide government disaster response information.

<https://disasterinfo.nlm.nih.gov/dimrc/apps>  
This is a 2 page promotional flyer you can print out (.PDF)

**NIH** U.S. National Library of Medicine  
National Network of Libraries of Medicine

The National Library of Medicine (NLM)  
has free health & medical information online

**NLM Resources for These 10 Trending Health Topics**

 <p><b>Addiction, Opioid &amp; Toxicology</b> <u>TOXNET</u> <u>MedlinePlus Opioids</u> <u>MedlinePlus Drugs</u> <u>Opiate Addiction &amp; Treatment Portal</u></p>	 <p><b>Mental Health</b> <u>MentalHealth</u> <u>National Institute of Mental Health</u></p>
 <p><b>Complementary &amp; Integrative Medicine</b> <u>National Center for Complementary Integrative Health</u> <u>MedlinePlus C&amp;I Medicine</u></p>	 <p><b>Multicultural Minority &amp; Refugee Health</b> <u>American Indian Health</u> <u>Arctic Health</u> <u>HealthReach (Refugee and many languages health)</u></p>
 <p><b>Environmental Health &amp; Disaster Preparedness</b> <u>TOXNET</u> <u>ToxTown</u> <u>ToxLearn</u></p>	 <p><b>Pet Health</b> <u>MedlinePlus</u> <u>KidsHealth</u> <u>AVMA</u></p>
 <p><b>Food, Nutrition &amp; Fitness</b> <u>American Society of Sports Medicine</u> <u>MedlinePlus Nutrition</u> <u>MedlinePlus Exercise &amp; Fitness</u> <u>MyPlate</u> <u>Food &amp; Nutrition Information Center</u></p>	 <p><b>K-12 Education &amp; Career Exploration</b> <u>Harry Potter's World: Renaissance Science, Magic and Medicine</u> <u>Frankenstein Penetrating the Secrets of Science</u></p>
 <p><b>Clinical Trials in Your City &amp; State</b> <u>ClinicalTrials</u></p>	 <p><b>Genetics, Pregnancy &amp; Breastfeeding</b> <u>Genetic Home Reference</u> <u>LactMed</u> <u>MedlinePlus Pregnancy</u></p>

**A World of Health at your Fingertips!**  
<https://www.nlm.nih.gov/>

# NLM Trending Health Topics Infographic

[bit.ly/NLMtrendingtopicsinfographic](https://bit.ly/NLMtrendingtopicsinfographic)

Link to NLM Home Page



U.S. Department of Health & Human Services [www.hhs.gov](http://www.hhs.gov)

# Environmental Health & Toxicology

SPECIALIZED INFORMATION SERVICES

National Library of Medicine  
National Institutes of Health NLM

SIS Home | About Us | A-Z Index | SIS News | Contact Us

search this site

SIS Home > Environmental Health and Toxicology > Enviro-Health Links

Share

Text size: S M L XL

Expand/Collapse

## Topics of Interest

Find Information About...  
Especially For...  
Search TOXNET® Databases  
Other Professional Resources  
Resources for the Public  
Enviro-Health Links  
Guides & Tutorials

## More

About TEHIP  
Database Descriptions  
Which Resource Should I Use?  
SIS News  
Conference Exhibit Schedule

## A to Z Index of Resources

A B C D E F G H I  
J K L M N O P Q R  
S T U V W X Y Z #

## Stay Connected

Join the Listserv  
Subscribe to RSS  
Follow us on Twitter  
Share

Connect with NLM

## Opiate Addiction and Treatment (Enviro-Health Links)

- Understanding Addiction
- Opioid Overdose
- Opioid Drugs
- Medications to Treat Opioid Addiction
- Opioid Prescribing
- Pregnancy, Opioid Use, and Neonatal Abstinence Syndrome
- Recovery
- Data, Trends, & Statistics
- Topic-related Searches of National Library of Medicine Resources
- Disclaimer

## Understanding Addiction

- Opioid Crisis (Video) by Dr. Nora Volkow, Director of the National Institute on Drug Abuse  
April 2017 National Rx Drug Abuse and Heroin Summit
- Definition of Addiction  
American Society of Addiction Medicine
- Drugs, Brains, and Behavior: The Science of Addiction  
National Institute of Drug Abuse
- Facing Addiction in America: The Surgeon General's Report on Alcohol, Drugs, and Health (2016)  
Office of the Surgeon General of the United States
- July Vital Signs – Opioid Prescribing: Where you live matters  
Centers for Disease Control and Prevention
- Opioid Crisis  
National Institute of Drug Abuse
- The Role of Science in Addressing the Opioid Crisis  
Volkow ND, Collins FS. N Engl J Med. 2017 May 31. doi: 10.1056/NEJMSr1706626.
- TurnTheTideRx: Surgeon General's Call to End the Opioid Crisis  
Office of the Surgeon General of the United States
- Why Are Drugs So Hard to Quit? (Video)  
National Institute of Drug Abuse
- What is Addiction? - Easy-to-Read material (PDF, 600 KB)  
National Institute of Drug Abuse
- White House Commission on Combating Drug Addiction and the Opioid Crisis


# Addiction, Opioid & Toxicology


Topics of Interest

More

Stay Connected

# NLM Nutrition Related Resources

 U.S. National Library of Medicine

**MedlinePlus**  
Trusted Health Information for You

Search MedlinePlus

About MedlinePlus Site Map FAQs Customer Support

Health Topics Drugs & Supplements Videos & Tools Español

Home → Health Topics → Nutrition

## Nutrition

**On this page**

**Basics**

- Summary
- Start Here
- Latest News
- Diagnosis and Tests

**Learn More**

- Related Issues
- Specifics

**See, Play and Learn**

- Health Check Tools

**Research**



- Statistics and Research
- Clinical Trials
- Journal Articles


**Resources**

- Reference Desk
- Find an Expert

**For You**

- Teenagers
- Men
- Women
- Patient Handouts



**Get Nutrition updates by email** 

Enter email address

**MEDICAL ENCYCLOPEDIA**

20 healthy snacks with 100 calories or less

Calorie count - fast food

Eating extra calories when you are sick - adults

Eating out

Fast food tips

**Summary**

Food provides the energy and nutrients you need to be healthy. Nutrients include proteins, carbohydrates, fats, vitamins, minerals, and water.

Healthy eating is not hard. The key is to

- Eat a variety of foods, including vegetables, fruits, and whole-grain products
- Eat lean meats, poultry, fish, beans, and low-fat dairy products
- Drink lots of water
- Limit salt, sugar, alcohol, saturated fat, and trans fat in your diet

Saturated fats are usually fats that come from animals. Look for trans fat on the labels of processed foods, margarines, and shortenings.

*Centers for Disease Control and Prevention*

<https://medlineplus.gov/nutrition.html>



# PHPartners Nutrition Related Resources



A collaboration of U.S. government agencies, public health organizations and health sciences libraries

Search PHPartners Go

[Home](#) | [News](#) | [About Partners](#) | [Contact Us](#) | [Sitemap](#) | [FAQ](#) | [Suggest Link](#)

## Public Health Topic Pages

- › Bioterrorism
- › Dental Public Health
- › Environmental Health
- › HIV/AIDS
- › How to Access Journal Articles
- › Nutrition
- › Obesity
- › Public Health Genomics
- › Veterinary Public Health
- › Workforce Development

## Main Topic Pages

- › Health Promotion and Health Education
- › Literature and Guidelines
- › Health Data Tools and Statistics
- › Public Health Workforce Data
- › Grants and Funding
- › Education and Training
- › Legislation and Policy
- › Conferences and Meetings
- › Finding People
- › Discussion and E-mail Lists
- › Jobs and Careers

## Nutrition

[Get email updates](#) | [Subscribe to RSS](#)

[Nutrition News](#) | [Associations and Organizations](#) | [Conferences and Meetings](#) | [Data and Statistics](#) | [Grants and Funding](#) | [Legislation and Policy](#) | [Reports and Guidelines](#) | [Nutrition Information](#) | [Nutrition Education](#) | [Nutrition Promotion](#) | [Nutrition Resources](#) | [Training and Continuing Education](#)

### Nutrition News

**Access to Public Benefits among Dual Eligible Seniors Reduces Risk of Nursing Home and Hospital Admission and Cuts Costs (August 2017)** - 06-SEP-2017 [PDF](#)  
Researchers studied the impact of access to food and energy assistance on healthcare utilization among all community-dwelling seniors (age 65+) in Maryland who received both Medicare and Medicaid. (University of Maryland)

**Rollbacks to school meal nutrition threatening health: Public health regulations under fire** - 01-SEP-2017  
On May 1, U.S. Secretary of Agriculture Sonny Perdue announced that USDA would relax school nutrition requirements related to whole grains, sodium and milk. Under the new rules, schools are only required to make 50 percent of their grain products whole-grain rich, as opposed to 100 percent, for the 2017-18 school year; schools are exempt from achieving the highest sodium targets from school years 2017-18 through 2020; and schools are allowed to serve flavored 1 percent milk. (The Nation's Health)

**A Community-Based Marketing Campaign at Farmers Markets to Encourage Fruit and Vegetable Purchases in Rural Counties With High Rates of Obesity, Kentucky, 2015-2016** - 01-SEP-2017  
Researchers conducted a community-based marketing campaign, Plate it Up Kentucky Proud (PIUKP), in 6 rural communities over 2 years to determine the association between exposure to the campaign and fruit and vegetable purchases, adjusted for Supplemental Nutrition Assistance Program recipient status. (Centers for Disease Control and Prevention (CDC), HHS)

**Improving Nutrition and Physical Activity Policies and Practices in Early Care and Education in Three States, 2014-2016** - 01-SEP-2017  
Study evaluates the effectiveness of the National Early Care and Education Learning Collaboratives project in facilitating best practices in nutrition, physical activity, screen time, and infant feeding among early care and education programs.

**The Food-Spending Patterns of Households Participating in the Supplemental Nutrition Assistance Program: Findings From USDA's FoodAPS (August 2017)** - 21-AUG-2017 [PDF](#)  
This study finds that, when adjusted for household size and composition, average food spending in SNAP households is lower than in other U.S. households, even those that are eligible for SNAP but choose not to participate. Food-at-home spending accounts for a greater share of the total food expenditures of SNAP households than of other households. (Agricultural Research Service (ARS), USDA)

[Return to Top](#)

### Associations and Organizations

#### Federal

##### **CDC Division of Nutrition, Physical Activity and Obesity**

The mission of CDC's Division of Nutrition, Physical Activity and Obesity is to lead strategic public health efforts to prevent and control obesity, chronic disease, and other health conditions through regular physical activity and good nutrition. (Centers for Disease Control and Prevention (CDC), HHS)

##### **FDA Food Safety**

Food safety resources from the FDA. (U.S. Food & Drug Administration (FDA), HHS)

##### **Food and Nutrition Service (FNS)**

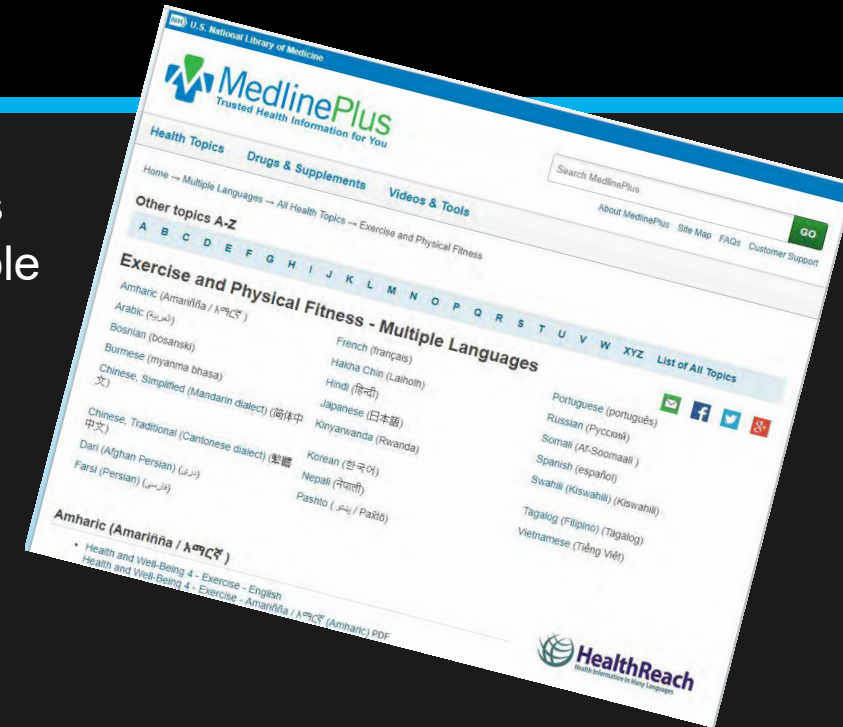
FNS increases food security and reduces hunger in partnership with cooperating organizations by providing children and low-income people access to food, a healthy diet, and nutrition education in a manner that supports American agriculture and inspires public confidence. (U.S. Department of Agriculture (USDA))

<https://phpartners.org/>

# NLM Resources Related to Physical Activity and Exercise



MedlinePlus offers information in multiple languages



MedlinePlus also has a quarterly magazine available online and in print

<https://medlineplus.gov/>



MedlinePlus also allows you to choose to search on External Health Links to locate info from external organizations (that have been vetted by NLM)

For example,

- \*American College of Obstetricians and Gynecologists
- \*National Center for Health Statistics
- \*National Multiple Sclerosis Society



# NLM Resources Related to Mental and Behavioral Health

The screenshot shows the MedlinePlus website with a search bar containing 'teen mental health'. The search results are displayed on the right, listing various topics like 'Teen Mental Health', 'Mental Disorders', and 'Mental Health'. On the left, there are filters for 'Refine by Type' and 'Refine by Format'. A blue arrow points to the 'Refine by Format' filter, which includes options like PDF, Images, and Videos.

<https://medlineplus.gov/>

The screenshot shows the NIH U.S. National Library of Medicine website. The search bar contains 'teen mental health'. The search results are displayed on the right, listing various topics like 'Teen Mental Health', 'Easy-to-Read', and 'Health Check Tools'. On the right side, there is a section titled 'Teen Mental Health' with a brief description and a link to 'Learn more'. Below that, there is a section titled 'Most Recent PubMed Articles' with a list of recent articles.

<https://www.nlm.nih.gov/>

The screenshot shows the MentalHealth.gov website. The header includes the HHS.gov logo and the text 'U.S. Department of Health & Human Services'. The main content area features a large graphic with the text 'Recognize the Warning Signs' and a link to 'Learn more'. Below this, there are sections for 'Featured Topics' and 'Get Immediate Help'. The footer includes the text 'Mental Health Experts, Resources' and the 'NATIONAL SUICIDE PREVENTION LIFELINE' logo.

<https://mentalhealth.gov/>



# Gallery of NLM Mobile Apps

## Biomedical Literature

### PubMed Mobile

Mobile website  
<https://ncbi.nlm.nih.gov/m/pubmed/>  
 Database of more than 26 million citations for biomedical literature from MEDLINE, life science journals, and online books.



### PubMed for Handhelds (PubMed4Hh)

Mobile website and app for Android and iOS  
<https://pubmedhh.nlm.nih.gov/>  
 Unique PubMed tools, including PICO (clinical queries), askMEDLINE (natural language search), and Consensus Abstracts.



## HIV/AIDS Guidelines

### AIDSinfo

Mobile-optimized website  
<https://aidsinfo.nih.gov/>  
 Federally approved HIV/AIDS medical practice guidelines, HIV treatment and prevention clinical trials, and research.



### AIDSinfo HIV/AIDS Drug Database

Mobile app for Android and iOS  
<https://aidsinfo.nih.gov/apps/>  
 Information about drugs approved to treat HIV infection and other infections or diseases common to people living with HIV.



### AIDSinfo HIV/AIDS Glossary

Mobile app for Android and iOS  
<https://aidsinfo.nih.gov/apps/>  
 Definitions for HIV/AIDS-related terms, written in concise and easy-to-understand language, in both English and Spanish.



## Public Health

### PHPartners (Partners in Information Access for the Public Health Workforce)

Mobile-optimized website  
<https://phpartners.org/>  
 Provides timely, convenient access to selected public health resources, including data, tools, and statistics.



## Drugs and Medical Devices

### Drug Information Portal Mobile

Mobile website  
<https://druginfo.nlm.nih.gov/m.drugportal/>  
 Gateway to drug information from US Government agencies including NIH, FDA, and CDC.



### DailyMed

Mobile-optimized website  
<https://dailymed.nlm.nih.gov/>  
 Comprehensive resource of medication content and labeling found in FDA label information.



### LactMed

Mobile app for Android and iOS  
<https://toxnet.nlm.nih.gov/help/lactmedapp.htm>  
 Information about maternal and infant drugs and dietary supplement levels, effects on lactation and on breastfed infants, and alternative drugs to consider.



### Pillbox

Mobile app for iOS  
<https://itunes.apple.com/us/app/id892934923>  
 Identify unknown prescription, over-the-counter, homeopathic, and veterinary medications.



### AccessGUDID (Global Unique Device Identification Database)

Mobile-optimized website  
<https://accessgudid.nlm.nih.gov/>  
 Key device identification information about medical devices that have Unique Device Identifiers (UDI).



## Toxicology

### Haz-Map

Mobile-optimized website  
<https://hazmap.nlm.nih.gov/>  
 Occupational health database of information about the adverse effects of workplace exposures to chemical and biological agents.



### TOXNET Mobile

Mobile website  
<https://toxnet.nlm.nih.gov/pda/>  
 Collection of databases on toxicology, hazardous chemicals, environmental health, and toxic releases.



## Consumer Health

### MedlinePlus

Mobile-optimized website  
<https://medlineplus.gov/>  
 Covers diseases, conditions, medications, wellness topics, and the latest news, in both English and Spanish.



## Educational

### Digital Collections

Mobile-optimized website  
<http://collections.nlm.nih.gov/>  
 Access NLM's transcribed and fully searchable historical biomedical books and videos.



### Embryo

Mobile app for iOS  
<https://itunes.apple.com/us/app/id422337604>  
 Explore human embryo development through videos, micrographs, images, interactive tools, and related resources.



### Native Voices

Mobile app for iPads and Android  
<https://itunes.apple.com/us/app/id521226050>  
 Explore the interconnectedness of wellness, illness, and cultural life for Native Americans, Alaska Natives, and Native Hawaiians.



### TOXInvaders

Mobile app for iPads  
<https://itunes.apple.com/us/app/id971776185>  
 Game that supports middle school science concepts about environment and health.



### Turning the Pages

Mobile app for iPads  
<https://itunes.apple.com/us/app/id423830194>  
 Virtually flip through rare books and manuscripts and learn more about them through historian and curator annotations.



<https://nnlm.gov/sites/default/files/shared/files/trifolds/mobiletri.pdf>



# Examples of Mobile app Use

## Aidsinfo, LactMed

U.S. Department of Health and Human Services

**AIDSinfo**


OFFERING INFORMATION ON HIV/AIDS  
TREATMENT, PREVENTION, AND RESEARCH

Search AIDSinfo

Home Guidelines Understanding HIV/AIDS Drugs Clinical Trials Apps

### Download the AIDSinfo apps

Download Now



**Guidelines**

Federally approved HIV/AIDS medical practice guidelines

- View and Download the Guidelines
- Adult ARV Guidelines
- Pediatric ARV Guidelines
- Perinatal Guidelines

**Understanding HIV/AIDS**

Links to HIV/AIDS-related resources

- Fact Sheets
- Infographics
- Glossary
- HIV/AIDS Awareness Days

**Drugs**

Information on FDA-approved HIV/AIDS and opportunistic infection drugs and investigational HIV/AIDS drugs

- HIV/AIDS-Related Drugs

**Clinical Trials**

Search tool to find HIV/AIDS-related clinical trials

- HIV/AIDS-Related Clinical Trials
- HIV Preventive Vaccine Clinical Trials
- HIV Therapeutic Vaccine Clinical Trials

## LactMed

[View More by This Developer](#)

By National Library of Medicine

This app is only available on the App Store for iOS devices.



Free

Category: Medical  
Updated: 04 June 2017  
Version: 3.1  
Size: 9.8 MB  
Language: English  
Developer: National Library of Medicine  
© 2016 National Library of Medicine  
You must be at least 17 years old to download this application.  
Frequent/Intense  
Medical/Treatment Information

**Compatibility:** Requires iOS 7.0 or later. Compatible with iPhone, iPad and iPod touch.

### Customer Ratings

This application has not received enough ratings to display a summary.

More iPhone Apps by National Library of Medicine



ReUnite

### Description

LactMed, part of the National Library of Medicine's (NLM) Toxicology Data Network (TOXNET®), is a database of drugs and dietary supplements that may affect breastfeeding. It includes information on the levels of such substances in breast milk and infant blood, and possible adverse effects in the nursing infant. Suggested therapeutic

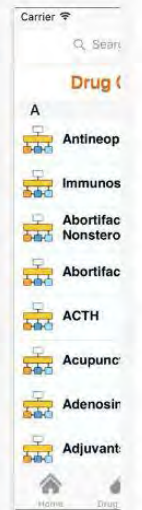
[National Library of Medicine Web Site](#) [LactMed Support](#)

...More

### What's New in Version 3.1

New data update.

### iPhone Screenshots



# Promotional Items & Printable Handouts

The screenshot shows the 'Outreach Activities & Resources' page. The header includes the U.S. Department of Health & Human Services logo and the URL www.hhs.gov. The page title is 'Outreach Activities & Resources' with the subtitle 'SPECIALIZED INFORMATION SERVICES'. The National Library of Medicine logo is also present. A navigation bar contains links: SIS Home, About Us, A-Z Index, SIS News, and Contact Us. A search bar is labeled 'Search This Site'. Below the navigation bar, the breadcrumb trail reads: SIS Home > Outreach Activities & Resources > Apps, Badges, Brochures, Fact Sheets, Wallet Cards. A 'Share' button and text size options (S, M, L, XL) are visible. The main content area is titled 'Promotional Materials' and 'Apps, Badges, Brochures, Fact Sheets, and Wallet Cards'. It lists various categories: Disaster Information Management Research Center, Environmental Health and Toxicology, Health Information, Health Professionals, HIV/AIDS, Minority Health, Radiation Emergency Medical Management (REMM), Specific Populations, Students and Educators, Wireless Information System for Emergency Responders (WISER), and En español. Under the 'Disaster Information Management Research Center' category, there is a list of posters, flyers, and wallet cards with their respective file sizes.

U.S. Department of Health & Human Services

www.hhs.gov

**Outreach Activities & Resources**  
SPECIALIZED INFORMATION SERVICES

National Library of Medicine  
National Institutes of Health NLM

SIS Home | About Us | A-Z Index | SIS News | Contact Us

Search This Site

SIS Home > Outreach Activities & Resources > Apps, Badges, Brochures, Fact Sheets, Wallet Cards

**Promotional Materials**  
**Apps, Badges, Brochures, Fact Sheets, and Wallet Cards**

- Disaster Information Management Research Center
- Environmental Health and Toxicology
- Health Information
- Health Professionals
- HIV/AIDS
- Minority Health
- Radiation Emergency Medical Management (REMM)
- Specific Populations
- Students and Educators
- Wireless Information System for Emergency Responders (WISER)
- En español

**Disaster Information Management Research Center**

- Posters, Flyers, and Wallet Cards
  - 8 1/2 x 11 inch Flyer 2017 (PDF, 2.1 MB)
  - Table Top 8 1/2 x 11 inch Poster - 2015 (PDF, 2.1 MB)
  - Large Poster - 2015 (PDF, 2.9 MB)
  - Disaster and Emergency Apps Flyer - 2016 (PDF, 308 KB)
  - Where To Find Disaster Literature Flyer - 2017 (PDF, 356 KB)
  - Disaster Health Information Resources Wallet Card - 2013 (PDF, 68 KB)

[https://sis.nlm.nih.gov/outreach/promotional\\_materials.html](https://sis.nlm.nih.gov/outreach/promotional_materials.html)



# NLM Also Provides Grant Funding Opportunities

---

- **Community Engagement (up to \$10,000)** - short-term outreach projects to advance health information resources in collaboration community groups.
- **Knowledge and Data Management (up to \$10,000)** – projects that support innovations data management and research services at the health care or research institution.
- **Member Programs (up to \$5,000)** – Projects & programs that improve the knowledge and skills of librarians & health information professionals
- **Technology (up to \$7,000)** - Improve technology access and delivery of health information for network members

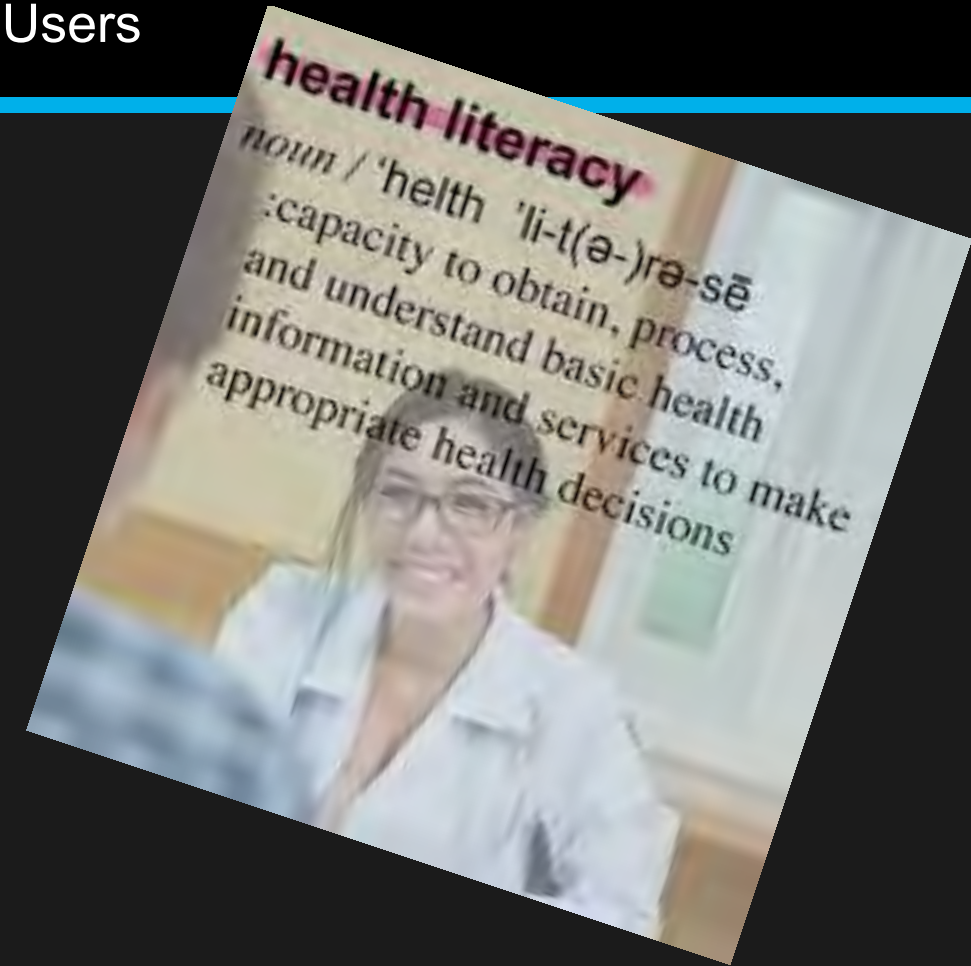
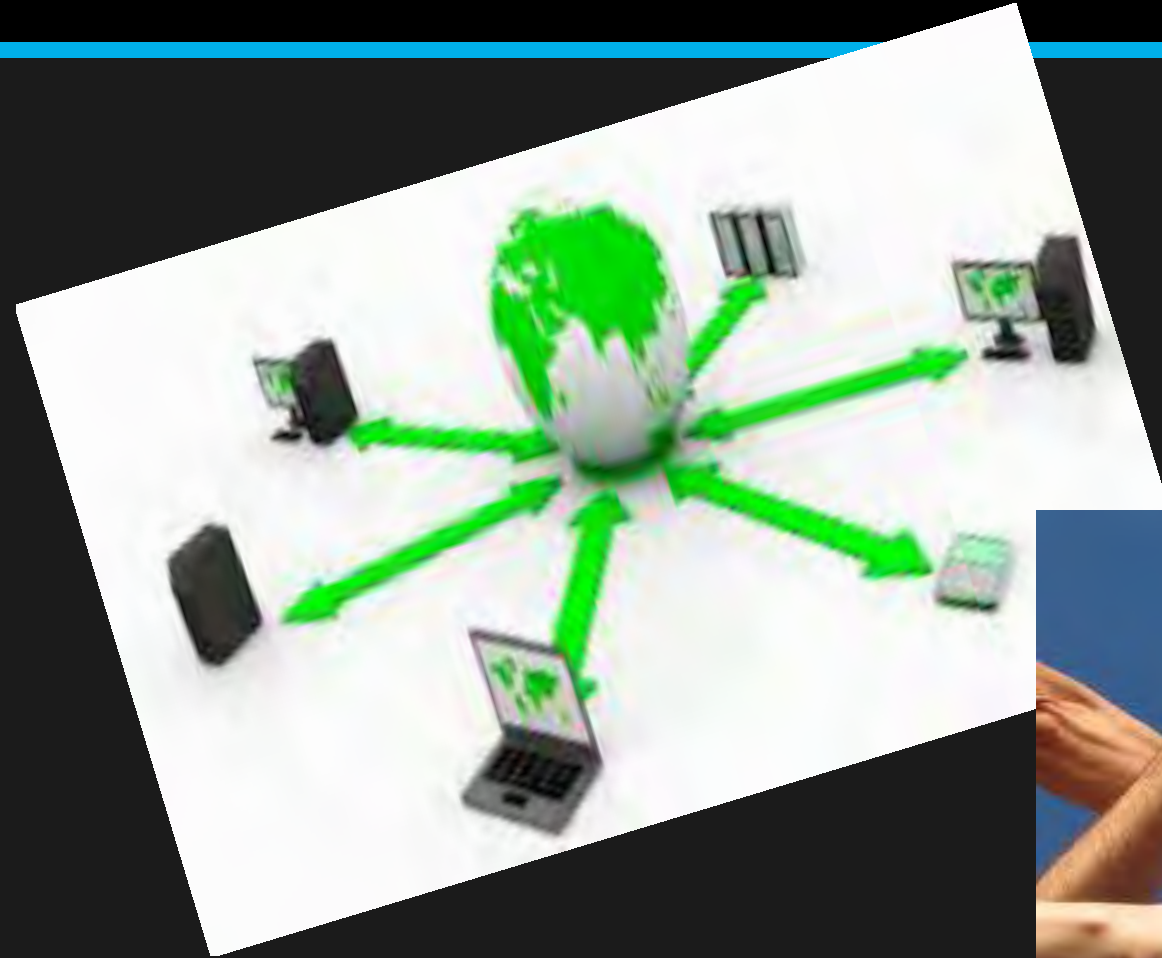
# Example of mHealth Project

## MedlinePlus and LactMed for Patient Education



<https://vimeo.com/217207971>

# Using NLM Resources A Win/Win For mHealth Developers & Users





# National Network of Libraries of Medicine

<https://nnlm.gov/>

NNLM has about 6800  
Network Members

Anyone can join the  
network, it's FREE

To Join the NNLM Network :

<https://nnlm.gov/members/join-network>

## NNLM in Your Community: Philadelphia, PA

NER's Library Fellow and Graphic Medicine Specialist discussed educational outreach on the value of comics and NER's Graphic Medicine Book Club Kits initiative at the 2017 MEDstudio@JEFF collaboration with Design Philadelphia.

Learn More



9 **OUT OF** 10 don't know they have prediabetes

1 in 10 people –  
that's 1 out of 3 adults  
have prediabetes



## National Network of Libraries of Medicine

The mission of the National Network of Libraries of Medicine (NNLM) is to advance the progress of medicine and improve the public health by providing all U.S. health professionals with equal access to biomedical information and improving the public's access to information to enable them to make informed decisions about their health. The Program is coordinated by the National Library of Medicine and carried out through a nationwide network of health science libraries and information centers.

### Find Your Region

Visit the [New England Region](#)



### News & Announcements

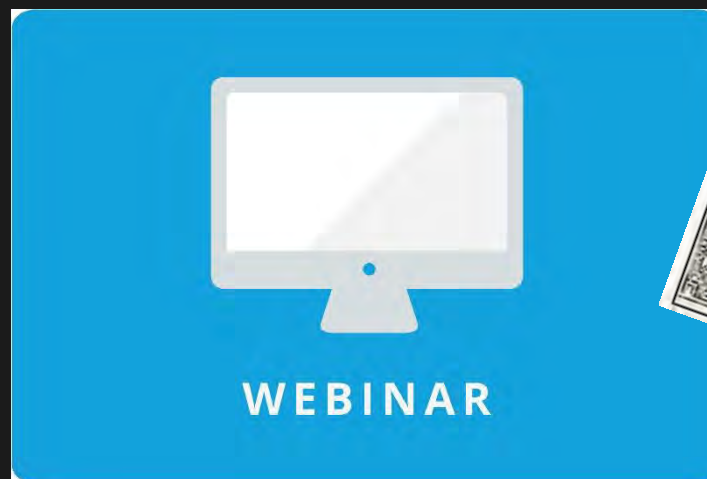
MLA CALLS FOR 2018 RESEARCH TRAINING  
INSTITUTE (RTI) APPLICATIONS



NNLM RD3

RESOURCES FOR DATA-DRIVEN DISCOVERY

# Benefits of NNLM Membership





# How Will Use NLM Resources in Your mHealth App?

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For more information about how to incorporate  
MedlinePlus in your application development

<https://medlineplus.gov/fordevelopers.html>

Please share your ideas, comments, and questions in the Chat Box



# Thank you for Attending this Webinar!

---

Webinar Evaluation Link

<http://www.surveygizmo.com/s3/3529624/47e6102b9be5>

For more information about how you can benefit from NNLM NER outreach contact Susan Halpin, Education & Outreach Coordinator [susan.halpin@umassmed.edu](mailto:susan.halpin@umassmed.edu)

For more information about the University of Connecticut Center for mHealth & Social Media contact Dr. Sherry Pagoto [sherry.pagoto@uconn.edu](mailto:sherry.pagoto@uconn.edu)