Promoting Creativity and Critical Thinking Using NLM Online Exhibitions

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“The National Library of Medicine (NLM), on the campus of the National Institutes of Health in Bethesda, Maryland, has been a center of information innovation since its founding in 1836”.

[URL for the National Library of Medicine]
Regional Medical Libraries

Explore the pinpoints below and learn more about the NNLM Regional Medical Libraries and their respective territories.

URL for National Network of Libraries of Medicine (NNLM) and URL to NNLM Middle Atlantic Region (NNLM MAR)
The Exhibition Program creates lively and informative exhibitions and educational resources that enhance awareness of and appreciation for the collections of the National Library of Medicine. Explore. Discover. Enjoy.
Forensics/Genetics/Technology and Science
Visible Proofs

Exhibition

Visible Proofs is about the history of forensic medicine. Over the centuries, physicians, surgeons, and other professionals have struggled to develop scientific methods that translate views of bodies and body parts into "visible proofs" that can persuade judges, juries, and the public.

Galleries

Explore significant cases, technologies, and people that have had an impact on the history of forensic medicine. Take an in-depth look at artifacts and images from the exhibition.

"You are not to expect visible proofs in a work of darkness. You are to collect the truth from circumstances, and little collateral facts, which taken singly afford no proof, yet put together, so tally with, and confirm each other, that they are as strong and convincing evidence, as facts that appear in the broad face of the day."

—Judge Francis Buller, to the jury, Donnellan case, March 1781

URL for Visible Proofs Educational Resources
Frankenstein exhibition

On a dark and stormy night in 1816, Mary Shelley began writing a story that posed profound questions about individual and societal responsibility for other people.

URL for Frankenstein Online Exhibition
“There was a lot more to magic, as Harry quickly found out, than waving your wand and saying a few funny words.”

— Harry Potter and the Philosopher’s Stone, J. K. Rowling
Microbes are equipped with defense mechanisms to help ensure their survival. *Penicillium*, the bluish-green mold that grows on stale food, produces a substance that has the power to kill its bacterial competition. Many of these bacteria are also deadly to humans.

CONTINUE to MAKING "YELLOW MAGIC"
The pain-relieving properties of opium had been known for centuries when the drug was first used in America for the treatment of sleeplessness and illnesses such as coughs, smallpox, cholera, malaria, syphilis, dysentery, and tuberculosis. By the 19th century, many doctors believed so fervently in the...

CONTINUE to OPIUM

LEARN more
Advertisement for medicinal drops to relieve toothache, Lloyd Manufacturing Co., 1885
Courtesy National Library of Medicine

SEE the digital gallery

BOOK the traveling exhibition

URL for Pick Your Poison
Interdisciplinary Resources

English, History, HIV/AIDS, and Social Science/Studies
“We condemn attempts to label us as ‘victims,’ a term which implies defeat, and we are only occasionally ‘patients,’ a term which implies passivity, helplessness, and dependence upon the care of others. We are ‘People With AIDS.’”

—Denver Principles, 1983

URL for Surviving & Thriving: AIDS, Politics, and Culture
Activists today continue to work tirelessly to support and empower victims of intimate partner violence. Individuals and organizations have developed innovative and creative approaches to sharing information and assisting in recovery...

CONTINUE to \textit{AND THE WORK CONTINUES}

LEARN more

Who were some advocates for change?

SEE the digital gallery

BOOK the traveling exhibition

\url{URL} for Confronting Violence Improving Women’s Lives
Health care reform has been a contentious political issue in the United States for more than a hundred years.

--- EXPLORE THE EXHIBITION ---
William Shakespeare (1564–1616) created characters that are among the richest and most humanly recognizable in all of literature. Yet Shakespeare understood human personality in the terms available to his age—that of the now-discarded theory of the four bodily humors—blood, bile, melancholy, and phlegm. These four humors were thought to define peoples’ physical and mental health, and determined their personalities, as well.

The language of the four humors pervades Shakespeare’s plays, and their influence is felt above all in a belief that emotional states are physically determined. Carried by the bloodstream, the four humors bred the core passions of anger, grief, hope, and fear—the emotions conveyed so powerfully in Shakespeare’s comedies and tragedies.

Today, neuroscientists recognize a connection between Shakespeare’s age and our own in the common understanding that the emotions are based in biochemistry and that drugs can be used to alleviate mental suffering.
Alongside the traditional demands of family life, and political and military leadership, George Washington focused considerable attention on the health and safety of his family, staff, slaves, and troops.
The perspectives of surgeons, physicians, and nurses are richly documented in the history of American Civil War medicine, which highlights the heroism and brutality of battlefield operations and the challenges of caring for the wounded during wartime. Yet the experiences of injured soldiers during the conflict and in the years afterwards are less well-known. *Life and Limb: The Toll of the American Civil War* focuses on disabled veterans and their role as symbols of the fractured nation.

Explore the experiences of Civil War veterans in the [online exhibition](#), use [education resources](#) in middle-school, high-school and undergraduate classes, take a closer look at Civil War-era texts in [Digital Documents](#), or find out if the [traveling exhibition](#) is coming to a library near you.

*Pictured on the right: Soldiers at Armory Square Hospital, Washington, D.C., 1860s
Courtesy National Library of Medicine*
Meals can tell us how power is exchanged between and among different peoples, races, genders, and classes.

EXPLORE THE EXHIBITION

FIND EDUCATIONAL RESOURCES

BOOK THE TRAVELING EXHIBITION

URL for Fire and Freedom: Food & Enslavement in Early America
Native Voices

NATIVE PEOPLES’ CONCEPTS OF HEALTH AND ILLNESS

WATCH OVERVIEW VIDEOS

Listen to the director of the National Library of Medicine introduce Native Voices. Watch an overview of the exhibition that demonstrates how Native peoples of the United States today enhance their wellness through both traditional and Western healing practices.

NATIVE VOICES

Watch interviews with Native people telling how the wellness of individuals and communities has been affected by epidemics, government policies, and the inhibition of Native culture. Hear contemporary stories of renaissance, recovery, and self-determination.

VIEW THE EXHIBITION

EXPLORE THE TIMELINE

URL for Native Voices: Native Peoples’ Concepts of Health and Illness
DISASTER PREPAREDNESS

The Central American Disaster Information Network (CANDHI) provides the technology needed to access databases, publications, and online resources on disaster preparedness, and to connect to a website that provides news, maps, local weather updates, and alerts.

Click here to learn more

GUEST COLUMN

Victor Cid is a senior computer scientist at the Disaster Information Research Center of the National Library of Medicine.

Read More

URL for Against the Odds Online Exhibition
Migrating voyagers from the South Pacific began to settle on Kanaloa Kaho‘olawe, named after Kanaloa, the god of the ocean, around the year 1,000. Over the centuries, the island became home to families of farmers and fishers and developed into a natural observatory for keeping the solar and lunar...

CONTINUE to JOURNEYS THROUGH HISTORY
Discover the many ways that women have influenced and enhanced the practice of medicine. The individuals featured here provide an intriguing glimpse of the broader community of women doctors who are making a difference. The National Library of Medicine is pleased to present this exhibition honoring the lives and accomplishments of these women in the hope of inspiring a new generation of medical pioneers.

**VISIT**
This exhibition at the National Library of Medicine closed on November 19, 2005. Its traveling exhibition itinerary is available online. Please refer to "On Exhibit at NLM" on the Library's home page for information on the current exhibition on display at the Library.

**PHYSICIANS**
Perform your own customized database search to learn about the woman physicians featured in this exhibition. Learn about their sources of inspiration, the challenges they faced, and their accomplishments.

**RESOURCES**
Students, find out if a career in medicine is for you through the guide to medical career Web sites. Teachers, print classroom lesson plans and view an extensive bibliography including books and videos.

New Book! Women Physicians and the Cultures of Medicine

[URL](URL) for Changing the Face of Medicine
The postcard is a fleeting and widespread art form influenced by popular ideas about social and cultural life in addition to fashions in visual style. Nurses and nursing have been the frequent subjects of postcards...

**EXPLORE THE EXHIBITION**

**SEE THE DIGITAL GALLERY**

**FIND EDUCATIONAL RESOURCES**

**BOOK THE TRAVELING EXHIBITION**

**URL** for Pictures of Nursing
The first PA students had served as U.S. Navy Hospital corpsmen in the Vietnam War, where they gained extensive practical experience in medicine and surgery before entering PA programs.
Health Occupations
Also called: Health careers, Health professions, Medical occupations, Medical professions

Summary
Every day, around the clock, people who work in the health care industry provide care for millions of people, from newborns to the very ill. In fact, the health care industry is one of largest providers of jobs in the United States. Many health jobs are in hospitals. Others are in nursing homes, doctors' offices, dentists' offices, outpatient clinics and laboratories.

To work in a health occupation, you often must have special training. Some, like doctors, must have more than 4 years of college.

Bureau of Labor Statistics
Additional Resources/Services
Drugs, Herbs and Supplements

Drugs

Learn about your prescription drugs and over-the-counter medicines. Includes side effects, dosage, special precautions, and more.

Browse by generic or brand name:

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 0 9

For FDA approved labels included in drug packages, see DailyMed.

Herbs and Supplements

Browse dietary supplements and herbal remedies to learn about their effectiveness, usual dosage, and drug interactions.

All herbs and supplements

Prescription and over-the-counter medication information is from AHFS® Consumer Medication Information, copyrighted by the American Society of Health-System Pharmacists (ASHP), Inc., Bethesda, Maryland; Copyright © 2016. All Rights Reserved.

URL for Drugs, Herbs and Supplements
Videos & Tools

Watch health videos on topics such as anatomy, body systems, and surgical procedures. Test your knowledge with interactive tutorials and games. Check your health with calculators and quizzes.

- **Health Videos**
  View videos of anatomy and body systems and how diseases and conditions affect them.

- **Surgery Videos**
  Find videos of operations and surgical procedures.

- **Health Check Tools**
  Check your health with interactive calculators, quizzes and questionnaires.

- **Games**
  Boost your health knowledge by playing interactive health games.

URL for Videos and Tools
MedlinePlus Health News

Latest Health News

Health news from HealthDay, plus recent press announcements from major medical organizations.

More health news by date  Health news by topic

Tuesday, September 20

Annual Checkups Are Becoming Wellness Visits (HealthDay)
Appointment may include review of family history, lifestyle and medications, doctor says
Related MedlinePlus Topic: Health Checkup

Can Stress Lower a Woman’s Fertility? (HealthDay)
Greatest impact is around ovulation time, research suggests
Related MedlinePlus Topics: Infertility, Stress, Women’s Health

Early Introduction of Eggs, Peanuts May Cut Kids’ Allergy Risk (HealthDay)
Allergy specialist suggests existing guidelines on introducing foods may be outdated
Related MedlinePlus Topic: Food Allergy

More Cancer Patients Gaining from Immune-Based Treatments (HealthDay)
These therapies help arm the body to fight off malignancy, new report explains
Related MedlinePlus Topic: Cancer

More Must Be Done to Fight 'Superbugs': U.S. Gov't Report (HealthDay)
Infectious disease experts say multipronged approach is needed
Related MedlinePlus Topic: Antibiotic Resistance
MedlinePlus: Topics of Interest

- Asthma
- Autism
- Disaster Preparation and Recovery
- Attention Deficit Hyperactivity Disorder
- Bullying
- Child Safety
- Health Occupations
- Domestic Violence
- Drugs and Young People
- Environmental Health
- Teen Development
- Winter Weather Emergencies
- Food Labeling
- Teen Violence
- Safety Issues
- Pet Health
- Lice

...and more
What should you look for when evaluating the quality of health information on Web sites? Here are some suggestions based on our experience.

**Consider the source -- Use recognized authorities**

Know who is responsible for the content.

- Look for an "about us" page. Check to see who runs the site: is it a branch of the Federal Government, a non-profit institution, a professional organization, a health system, a commercial organization or an individual.

- There is a big difference between a site that says, "I developed this site after my heart attack" and one that says, "This page on heart attack was developed by health professionals at the American Heart Association."

- Web sites should have a way to contact the organization or webmaster. If the site provides no contact information, or if you can’t easily find out who runs the site, use caution.

**Focus on quality--All Web sites are not created equal**

Does the site have an editorial board? Is the information reviewed before it is posted?

- This information is often on the "about us" page, or it may be under the organization’s mission statement, or part of the annual report.

- See if the board members are experts in the subject of the site. For example, a site on osteoporosis whose medical advisory board is composed of attorneys and accountants is not medically authoritative.

- Look for a description of the process of selecting or approving information on the site. It is usually in the "about us" section and may be called "editorial policy" or "selection policy" or "review policy."

- Sometimes the site will have information "about our writers" or "about our authors" instead of an editorial policy. Review this section to find out who has written the information.
Evaluating Health Information

Summary

Millions of consumers get health information from magazines, TV or the Internet. Some of the information is reliable and up to date; some is not. How can you tell the good from the bad?

First, consider the source. If you use the Web, look for an "about us" page. Check to see who runs the site: Is it a branch of the government, a university, a health organization, a hospital or a business? Focus on quality. Does the site have an editorial board? Is the information reviewed before it is posted? Be skeptical. Things that sound too good to be true often are. You want current, unbiased information based on research.

NIH: National Library of Medicine

URL for Evaluating Health Information

URL for Evaluating Internet Health Information Tutorial
Toxicology Data Network
https://toxnet.nlm.nih.gov/
Search databases on hazardous chemicals, toxic releases, and environmental health, including LactMed and:
- ChemIDplus – Chemical Identification & Dictionary provides information on structure, property, and chemical toxicity for over 400,000 chemicals.
- HSDB – Hazardous Substances Data Bank with biological and physical data including animal/human toxicity studies on over 5,000 hazardous chemicals.
- DART – Developmental and Reproductive Toxicology literature and
- TOXLINE – Toxicology Literature Online, with citations from toxicological journals including those in PubMed.

DAILYMED
Over 93,000 federally approved prescription drug labels submitted by manufacturers including descriptions, usage, warnings, and patient counseling information.

Dietary Supplement Label Database
This new label database includes information from 50,500 dietary supplement labels for on and off-market drugs. Labels include product information supplement facts and ingredients.

Drug Information from the NLM
NLM Drug Information Subject Guide
https://www.nlm.nih.gov/services/Subject_Guides/druginformation/
For more information, please visit: https://www.nlm.nih.gov/learn-about-drugs.html

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Reviewed: January 2017

Drug Information @NLM
The U.S. National Library of Medicine (NLM) provides a variety of informational databases on drugs and herbal supplements.

Portals — search across multiple databases
- Drug Information Portal – search across most NLM databases.
- TOXNET – focus on toxic chemicals

Drug Label Databases
- DailyMed – FDA approved drug labels
- Dietary Supplement Label Database

Drug Information Resources
- AIDSinfo – AIDS drug and vaccines
- Clinical Trials – Drugs in clinical trials
- LactMed – Drugs affecting lactating mothers and breastfed infants
- LiverTox – Drug-induced liver injury cases
- MedlinePlus – For patients, families, and health consumers.
- Pillbox – Pill identifier
- PubChem – Chemical information including components of drugs.
- PubMed – Article citations
- RXNorm – Drug name listing

URL for All About Drugs
**Exhibition Program**

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8600 Rockville Pike
Bethesda, MD 20894
nlmexhibition@mail.nih.gov
www.facebook.com/NLMExhibitions

**Education Services**

*imagine history!*
reimagine your world

**Welcome!**

Exhibition Program Education Services engages, encourages, and serves educators, as well as students of all ages who are researching a topic or simply curious about the world around them. We develop resources that examine and interpret the ongoing interaction between science, society, and the humanities, in collaboration with educators and library professionals.

We provide online educational resources for elementary to higher education levels, as well as onsite exhibition tours, school field trips, and professional development programs for K-12 educators. For more information, please visit our website!

*above: A lecture program for Harry Potter’s World Renaissance Science, Magic, and Medicine at Mercer University, Macon, Georgia.*

*below: Dr. Victoria Cargill from the Office of AIDS Research, National Institutes of Health addresses young visitors to Against the Odds: Making a Difference in Global Health.*

**URL** for Education Services
Finding and Using Health Statistics

Health Statistics provide information for understanding, monitoring, improving and planning the use of resources to improve the lives of people, provide services and promote their well being.

This course describes the range of available health statistics, identifies their sources and helps you understand how to use information about their structure as you search.

This course links to numerous examples. Each example opens in a separate page of your browser. To return to the course close the new window – the course window remains open and you can proceed.

Parts of the Course
The course is divided into 2 main parts
- About Health Statistics - which describes these sources and explores how they are created
- Finding Health Statistics - which presents strategies you can use to successfully search for the material

Supporting Material
The course also contains supporting material including:
- A Glossary
- Examples of webpages where you can find health statistics
- Exercises

Start Here ➤
Images from the History of Medicine (IHM) provides online access to images from the U.S. National Library of Medicine’s (NLM) historical collections. IHM is available through NLM's Digital Collections, a free online resource of biomedical books and still and moving images.

IHM includes image files of a wide variety of visual media including fine art, photographs, engravings, and posters that illustrate the social and historical aspects of medicine dating from the 15th to 21st century.

It is the users’ responsibility to determine compliance with the law when reproducing, transmitting, or distributing images found in IHM. Please note that some content in this database may contain material that some viewers may find to be challenging, disturbing or offensive. Viewer discretion is advised.

Copyright and Permissions do apply

Viewer discretion is advised.

URL for Images from the History of Medicine web site
Digital Collections is the National Library of Medicine's free online resource of biomedical books and still and moving images. All of the content in Digital Collections is freely available worldwide and, unless otherwise indicated, in the public domain. Digital Collections provides unique access to NLM's rich resources.

URL for Digital Collections
K-12 Science and Health Education

Working with teachers and scientific experts to provide FREE reliable resources to help introduce, reinforce, and supplement education programs.

Get the latest news!

Biology

Careers

Disasters

Environmental Health Science/Chemistry

Forensics and Medical Technology

Games

General Health

URL for K-12 Science and Health Education (NLM-SIS)
Keeping Up in School?
Identifying Learning Problems

Recognizing and treating learning disabilities early in life can help kids succeed throughout school years and into adulthood. Read more about learning disabilities.

Curb Your Eating
Help Your Brain Fight the Urge to Splurge

Out-of-control eating can look and feel remarkably similar to an addiction to drugs. Scientists are analyzing the brain's role in binge eating. Read more about out-of-control eating.
About the Project

The South Carolina AHEC partnered with the U.S. National Library of Medicine (NLM) and three Lowcountry high schools for a health information literacy project. Students were charged with researching public health themes and creating educational comic books geared toward middle school students. In the process, the high school students learned about helpful resources from the NLM, gained valuable communication, research and creative skills, increased their knowledge about health careers and improved their health literacy.

[Image: Engaging Students in Health Literacy]

URL for Health Careers Comic Book Project (SC AHEC)
Class Descriptions

The NNLM educational program consists of a mix of in-person and online opportunities. The classes listed below may be customized for any audience. Additionally, MAR coordinators are available to discuss your audiences’ specific needs and tailor presentations that introduce information resources to address specific demographic, biomedical and health information needs. Contact nnlmmar@pitt.edu to request a class or presentation.

Use the sidebar navigation to view our Training Schedule for upcoming session dates.

Note: Classes that do not include MAR staff in their list of instructors are only available to the Middle Atlantic Region when offered online by another region or office. Look for any of the following instructors:

- Renae Barger
- Michelle Burda
- Lydia Collins
- Kate Flewelling
- Elaina Vitale

ABCs of DNA: Unraveling the Mystery of Genetics...
Activate, Collaborate, and Educate: Health...
Are You Ready? Essential Disaster Health...
Beyond an Apple a Day: Providing Consumer...

ACRL Research Data Management Roadshow
American Indian Health Information Resources
Augmented Reality, Virtual Reality, & Health
Beyond the SEA Monthly Web Seminar

URL to Class Descriptions, URL to NNLM MAR Training Schedule and URL to NNLM MAR Membership (DE, NJ, NY & PA) URL to NNLM Training Schedule and URL to NNLM web site to locate your Regional Medical Library
Order Free Educational & Print Materials

Network Members from the Middle Atlantic Region (Pennsylvania, Delaware, New York and New Jersey) can use the form below to order free educational and print materials from NNLM.

If you are located in another part of the United States, find your region to view materials that are available to you.

NOTE: Maximum order quantity per item: 50. Availability of items is subject to supplies on hand.

URL for Order Free Educational & Print Materials (DE, NJ, NY & PA)
Thank You

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URL for NNLM MAR

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