

**Medical Library Association and Association of Academic Health Sciences Libraries
Statement on FY16 Appropriations for the National Library of Medicine
Submitted to the Senate Subcommittee on L-HHS, Education & Related Agencies**

SUMMARY OF FISCAL YEAR 2016 RECOMMENDATIONS

- Continue the commitment to the National Library of Medicine (NLM) by supporting the President's budget proposal which requests \$394,090,000.
- Continue to support the medical library community's role in NLM's outreach, telemedicine, disaster preparedness, health information technology initiatives, and health care reform implementation.

INTRODUCTION

The Medical Library Association (MLA) and Association of Academic Health Sciences Libraries (AAHSL) thank the Subcommittee for the opportunity to submit testimony regarding FY16 appropriations for the National Library of Medicine (NLM), an agency of the National Institutes of Health (NIH). Working in partnership with the NIH and other Federal agencies, NLM is the key link in the chain that translates biomedical research into practice, making the results of research readily available to all who need it. As health sciences librarians who use NLM's programs and services every day, we can attest that these resources literally save lives making NLM an investment in good health.

NLM Leverages NIH Investments in Biomedical Research

In today's challenging budget environment, we recognize the difficult decisions Congress faces as it seeks to improve our nation's fiscal stability. We thank the Subcommittee for its long-standing commitment to strengthening NLM's budget. NLM's budget supports intramural services and programs that sustain the nation's biomedical research enterprise and more—it builds, sustains, and augments NLM's suite of more than 200 databases which provide information access to health professionals, researchers, educators, and the public. NLM's budget also supports all aspects of library operations and programs, including the acquisition, organization, preservation, and dissemination of the world's biomedical literature, no matter the medium.

In FY16 and beyond, it is critical to continue augmenting NLM's baseline budget to support expansion of its information resources, services, and programs which collect, organize, and make readily accessible rapidly expanding biomedical knowledge resources and data. NLM maximizes the return on the investment in research conducted by the NIH and other organizations. The Library makes the results of biomedical information more accessible to researchers, clinicians, business innovators, and the public, enabling such data and information to be used more efficiently and effectively to drive innovation and improve health. NLM is a leader in Big Data and plays a critical role in accelerating nationwide deployment of health information technology, including electronic health records (EHRs), by leading the development, maintenance and dissemination of key standards for health data interchange that are now required of certified EHRs. NLM also contributes to Congressional priorities related to drug safety through expansion of its clinical trial registry and results database (ClinicalTrials.gov) in response to legislative requirements, and to the nation's ability to prepare for and respond to disasters.

Growing Demand for NLM's Basic Services

NLM delivers more than a trillion bytes of data to millions of users daily that helps researchers advance scientific discovery and accelerate its translation into new therapies; provides health practitioners with information that improves medical care and lowers its costs; and gives the public access to resources and tools that promote wellness and disease prevention. Every day, medical librarians across the nation use NLM services to assist clinicians, students, researchers, and the public in accessing information they need to save lives and improve health. Without NLM, our nation's medical libraries would be unable to

provide the quality information services that our nation's health professionals, educators, researchers and patients increasingly need.

NLM's data repositories and online integrated services such as GenBank, PubMed, and PubMed Central are revolutionizing medicine and ushering in an era of personalized medicine in which care is based on an individual's unique genetic profile. GenBank is the definitive source of gene sequence information. PubMed, with more than 24 million citations to the biomedical literature, is the world's most heavily used source of bibliographic information. Approximately 765,000 new citations were added in FY15, and the database provided high quality medical information to about 2 million users each day. PubMed Central is NLM's digital archive which provides public access to the full-text versions of more than 3.3 million biomedical journal articles, including those produced by NIH-funded researchers. On a typical weekday more than one million users download 1.65 million full-text articles, including those submitted in compliance with the NIH Public Access Policy.

As the world's largest and most comprehensive medical library, NLM's traditional print and electronic collections continue to steadily increase each year, standing at more than 21 million items—books, journals, technical reports, manuscripts, microfilms, photographs and images. By selecting, organizing and ensuring permanent access to health sciences information in all formats, NLM ensures the availability of this information for future generations, making it accessible to all Americans, irrespective of geography or ability to pay, and guaranteeing that citizens can make the best, most informed decisions about their healthcare.

Encourage NLM Partnerships

NLM's outreach programs are essential to MLA and AAHSL membership and to the profession. Through the National Network of Libraries of Medicine (NN/LM), with over 6,300 members in communities nationwide, these activities educate medical librarians, health professionals and the general public about NLM's services and train them in the most effective use of these services. The NN/LM promotes educational outreach for public libraries, secondary schools, senior centers and other consumer-based settings, and its emphasis on outreach to underserved populations helps reduce health disparities among large sections of the American public. NLM's "Partners in Information Access" program improves access by local public health officials to information which prevents, identifies and responds to public health threats and ensures every public worker has electronic health information services that protect the public's health.

NLM's MedlinePlus provides consumers with trusted, reliable health information on more than 900 topics in English and Spanish. It has become a top destination for those seeking information on the Internet, attracting more than 1.6 million visitors daily. NLM has continued to make enhancements to MedlinePlus, with selected materials now available in forty other languages. New versions of MedlinePlus and MedlinePlus en español have been released and have been optimized for easier use on mobile phones and tablets; they also have all the content that is found on the MedlinePlus and MedlinePlus en español websites. Other products and services that benefit public health and wellness include the *NIH MedlinePlus Magazine* and *NIH MedlinePlus Salud*, available in doctors' offices nationwide, and NLM's MedlinePlus Connect—a utility which enables clinical care organizations to implement links from their electronic health records systems to relevant patient education materials in MedlinePlus.

MLA and AAHSL applaud the success of NLM's outreach initiatives, and we look forward to continuing to work with NLM on these programs.

Emergency Preparedness and Response

Through its Disaster Information Management Research Center, NLM collects and organizes disaster-related health information, ensures effective use of libraries and librarians in disaster planning and response, and develops information services to assist responders. NLM responds to specific disasters worldwide with specialized information resources appropriate to the need, including information on bioterrorism, chemical emergencies, fires and wildfires, earthquakes, tornadoes, and pandemic disease outbreaks. MLA and NLM continue to develop the Disaster Information Specialization (DIS) program to build the capacity of librarians and other interested professionals to provide disaster-related health information outreach. Working with libraries and publishers, NLM's Emergency Access Initiative makes available free full-text articles from hundreds of biomedical journals and reference books for use by medical teams responding to disasters. MLA and AAHSL ask the Subcommittee to support NLM's role in this crucial area which ensures continuous access to health information and use of libraries and librarians when disasters occur. In 2014, NLM released a new version of Chemical Hazards Emergency Medical Management (CHEMM) that provide first responders with tools to quickly make a series of complex decisions to minimize the risk of injury to their patients and themselves. CHEMM enables first responders and other healthcare providers to plan for, respond to, recover from, and mitigate the effects of mass-casualty incidents involving accidental or terrorist chemical releases.

Health Information Technology and Bioinformatics

For more than 40 years, NLM has supported informatics research, training and the application of advanced computing and informatics to biomedical research and healthcare delivery including telemedicine projects. Many of today's biomedical informatics leaders are graduates of NLM-funded informatics research programs at universities nationwide. A number of the country's exemplary electronic and personal health record systems benefit from findings developed with NLM grant support.

The importance of NLM's work in health information technology continues to grow as the nation moves toward more interoperable health information technology systems. A leader in supporting the development, maintenance, and dissemination of standard clinical terminologies for free nationwide use (e.g., SNOMED), NLM works closely with the Office of the National Coordinator for Health Information Technology to promote the adoption of interoperable electronic records, and has developed tools to make it easier for EHR developers and users to implement accepted health data standards in their systems and link to relevant patient education materials.

Dissemination of Clinical Trial Information

As health sciences librarians who fulfill requests for information from clinicians, scientists, and patients, we applaud the NIH and NLM for their efforts to expand and clarify the regulations for clinical trials registration and results submission, and for work to apply the ClinicalTrials.gov requirements to all NIH clinical trials. These efforts will enhance the transparency of clinical trial results, and provide patients with more information to make necessary health care decisions, including critical information about the safety of products and treatment options. Clinicians will have access to results information about efficacy, adverse effects, and safety; and biomedical researchers will have information on research design, safety, and scientific results that can inform future protocols and discoveries. We also support timely, easily understood, and accurate reporting of all clinical trials, especially those supported by federal funding, regardless of agency and phase of the clinical trial, and information about studies that have been terminated due to adverse events, difficulties in research design making accrual difficult, or simply feasibility problems. Ultimately, expanding the requirements will create an incredible and vastly important database of clinical data and knowledge for clinicians, scientists, and patients who need access to cutting-edge information.

In addition to these efforts, beginning this spring, PubMed Health's curated collection of systematic reviews now enables PubMed users to go straight from a clinical trial to systematic reviews that have

considered it. This allows users to see how a particular trial fits into the bigger picture of effectiveness research by helping them to look at evidence in context.

Improving Public Access to Funded Research Results

Earlier this year, the Department of Health and Human Services (DHHS) announced its plans and common policy approach to expanding public access to the results of scientific research funded by HHS agencies. Its operating divisions (Agency for Healthcare Research and Quality, Centers for Disease Control, Food and Drug Administration, and NIH) as well as the Assistant Secretary for Preparedness and Response will utilize NLM's PubMed Central as the common repository for its peer-reviewed publications and PubMed, a repository of citations, for the sharing of metadata. NLM's experience in developing these systems and related tools and engaging the health sciences library community in outreach will be essential to effective implementation of HHS-wide policies and improving compliance.

Thank you again for the opportunity to present our views. As health sciences librarians who use NLM's products and services and as intermediaries who provide services to researchers, clinicians, and the public, we value and rely upon the high quality invaluable support and leadership that NLM provides in support of our nation's health professionals, educators, researchers, and the public. As the needs of these audiences continue to evolve, we are confident that NLM's vision and understanding of the role of information, data, and technology will continue to fuel the development of just-in-time resources and tools that will keep our nation's health, biomedical, and scientific professionals at the forefront of health care, discovery, and innovation.

We look forward to continuing this dialogue and supporting the Subcommittee's efforts to secure the highest possible funding level for NLM in FY16 and the years beyond to support the Library's mission and growing responsibilities. Information about NLM and its programs can be found at <http://www.nlm.nih.gov>.

Organizational Bios

The Medical Library Association (MLA) is a nonprofit, educational organization with 3,700 health sciences information individual and institutional members. Founded in 1898, MLA provides lifelong educational opportunities, supports a knowledge base of health information research, and works with a network of partners to promote the importance of quality information for improved health to the health care community and the public.

The Association of Academic Health Sciences Libraries (AAHSL) supports academic health sciences libraries and directors in advancing the patient care, research, education and community service missions of academic health centers through visionary executive leadership and expertise in health information, scholarly communication, and knowledge management. AAHSL membership is composed of 166 academic health sciences libraries whose medical schools hold member or associate member status in the Association of American Medical Colleges.