EXECUTIVE SUMMARY

Mahria Lebow, MLIS, started her new position as PNR Regional Technology Coordinator, effective May 7, 2012. In her first year, Mahria increased awareness of both librarians and underserved health professionals in emerging technologies that impact biomedical and health information access (e.g. eScience, mobile devices and applications, MedlinePlus Connect). She also provided leadership for technical or design upgrades of the NN/LM PNR Web presence (including efforts to ensure its online resources are 508 compliant).

After completing special assignments for her position as temporary part-time Public Health Specialist in the RML, Ann Madhavan, MLIS, resigned in September to continue as a solo librarian for Public Health-Seattle King County and a library consultant for Local Hazardous Waste Management Program in King County. Subsequently, Gail Kouame, MLIS, accepted reassignment from PNR Consumer Health Outreach Coordinator to PNR Public Health Outreach Coordinator, effective October 1. This was a natural transition for Gail reflecting her expanding interests in disaster response and emergency management, public health informatics, and programs to address gaps in equitable information access affecting population health, wellness, and prevention.

Madelena (Maddie) Romansic was hired as part-time PNR Program Assistant, effective December 3. Sarah Caldwell, a University of Washington iSchool student, completed a Directed Field Work experience in the RML during Spring Quarter, and began an internship in the Congressional Research Service at the Library of Congress.

PNR staff continued efforts to develop and maintain sustained relationships with umbrella organizations that have a state or regional scope, with local presence in rural communities. For example, Gail re-established collaboration with Northwest Parish Nurse Ministries and was invited to be on the program for their Coordinators’ Retreat in early November, and to staff an exhibit table at their conference the following day. As a result, the organization has written an article in an online newsletter that spotlights some NLM resources, and Gail was invited to present at a health education forum at a church in Oregon. Network Outreach Coordinator, Pat Devine, MLS, continues building regional and national NN/LM relationships with the physician assistant profession, and advocating for librarians visibility in that group, such as by editing the online column, "Ask a Librarian", which appears monthly in the Journal of the American Academy of Physician Assistants. Also, in 2012, Pat co-founded a special MLA interest group on Health Disparities, and as Chair Elect for the Relevant Issues Section of MLA; she planned two program sessions on topics related to health disparities for the 2013 annual meeting.
Associate Director, Cathy Burroughs, MLS, initiated a meeting including Gail and leadership of the Northwest Regional Primary Care Association (NWRPCA), to discuss mutual interests of the NN/LM PNR and NWRPCA programs. Cathy followed up by developing a “Partnership Goal Activity Plan”, identifying opportunities to partner with NWRPCA for training on resources and information needs of public health professionals; to promote resources and strategies to increase patient engagement and health literacy; and to find opportunities to present at NWRPCA conferences or webinars on timely topics. As a result, NWRPCA has increased its participation in PNR programs and services. For example, NWRPCA submitted a successful proposal for a Technology Improvement Award to develop capacity for capturing content from in person trainings, workshops, courses and conferences that can be archived and made accessible for later viewing, and to develop online asynchronous course content. NWRPCA also promoted the PNR sponsored Disaster Summit to their public health contacts to help increase multi-disciplinary participation of the event. And, NWRPCA invited Mahria to give a 90 minute talk on mobile technologies in healthcare and to exhibit about resources and services of the NLM, during the NWRPCA Spring Conference on May 18-21 at the Anchorage Marriott Downtown.

Cathy and NN/LM PNR Director, Tania Bardyn, MLIS, AHIP, completed site visits at Resources Libraries in all states of the PNR. Most Resource Library site visits occurred in the previous contract year, but due to harsh conditions in the Rocky Mountains, a 4-day car tour of western and central Montana was scheduled for July. Tania and Cathy met with Resource Libraries at Montana State University in Bozeman and also the University of Montana, Missoula. The large size of the undergraduate student population on most college campuses in the Pacific Northwest means that undergraduates are an important constituency for many of our resource libraries. It is critical for library administrators to ask and identify what services matter most to undergraduate students, especially when cuts in library services are a reality. Feedback from undergraduate students, generally the largest user group for academic libraries, is a crucial component of planning services in academic libraries, especially in difficult budgetary times.

In her dual role as Director of UW Health Sciences Library (HSL), Tania co-chaired the symposium “Managing and Revitalizing Your Career as a Medical Librarian,” held at the Medical Library Association Annual Meeting, on May 19, 2012, in Seattle. Via an NN/LM PNR Assessment and Planning award, Tania conducted a post symposium questionnaire and twenty-five (25) of the 29 workshop participants completed it. As stated in the assessment report, the most encouraging finding is that the vast majority of participants have taken active steps to manage and revitalize their careers in the two months that elapsed since the Symposium. Then, to recognize Medical Librarians Month in October, PNR sponsored a contest to find out what emerging and new roles librarians are undertaking. A Dragonfly post encouraged librarians to enter by sending a description of what they are doing, or plan to do, in order to remain vital and assist with the mission of their organization regarding patient education, electronic health records, bioinformatics, data management, clinical effectiveness research, disaster response planning and more. As one example of the responses received, Ann Glusker, Medical Librarian, Group Health Cooperative in Seattle, reported taking part in a medical mission team sponsored in part by the Group Health Global Health program, traveling to the Mekong Delta in Vietnam and teaching a group of medical librarians about epidemiology, PubMed, and evaluating websites. This was the first time a librarian was included on the team, which consists of healthcare providers and community professionals.

PNR staff solicited, reviewed, administered, and funded a total of 37 subcontracts, awards, and MOUs during Option Year 1. Two new types of funding developed by PNR included: Regional
Symposia and Health Information Services awards. As a few examples of the work being accomplished through these funding mechanisms, Gallatin County Detention Center in Montana is improving health literacy and personal health management of inmates via an Express Outreach award. Gail actively consulted on this project, which made a difference by providing a self-guided, computer-based, health literacy program to inmates, including the tools necessary to access, understand, and navigate the current healthcare system. Via an MOU that Cathy developed and negotiated, a committee of OHSU librarians, plus 2 PNR librarian leaders in the PNR, planned and convened a symposium “Emerging Roles in Medical Libraries,” to encourage and advocate emerging and non-traditional roles of information professionals and librarians. Held on October 12 in Portland, OR, the event garnered uniformly positive evaluations by the 65 participants. The day-long program included two keynote speakers and six panelists, and topics discussed included distance instruction, eScience, clinical librarianship, data services, and the electronic health record.

In coordination with National Library of Medicine, PNR funded two MOUs for Health Information Resources Development to Northwest Indian College and the Seattle Indian Health Board. The MOUs are designed to encourage use of NLM’s Native Voices exhibition resources and to support tribal colleges and Native health centers that contributed to the Native Voices exhibition and/or participated in the Healing Totem Pole celebration. Also, through a major subcontract, Alaska Medical Library at University of Alaska Anchorage continues to provide information outreach services to the health professional workforce across the state, especially in frontier and rural areas of Alaska. Montana State University – Bozeman carried out the work of an MOU for promotion, training and collaboration to increase access to health information access in the public health workforce and through public libraries, tribal libraries and K-12 stakeholders in Montana. Oregon Health & Science University (OHSU) carried out activities under a continuing MOU for statewide outreach to Oregon.

OERC Evaluation Specialist, Cindy Olney, Ph.D., produced the 2011-2012 NN/LM PNR Network Membership Assessment report that includes a full analysis of results from both the Full and Affiliate Network member questionnaires. A total of 123 responses were received from participants representing 41% of full network member and 29% of affiliate network member organizations. The full report, including key findings, posted on the PNR website (http://nnlm.gov/pnr/reports/2012_Ntwk_Memb_Assess.pdf). Also, a committee of PNR staff updated the PNR Environmental Scan and added new information about community college libraries serving health professional programs, e-science initiatives, and health information technology in the region.

The annual joint PNC/MLA & PNR Professional Development Survey was administered, analyzed and reported with input by Education and Assessment Coordinator, Nikki Dettmar, MSIS.

Nikki is finalizing an assessment plan for the RML Rendezvous Adobe Connect webcast series consisting of assessment objectives, a timeline of changes in support of objectives, baseline data, and a preliminary overview of best practices in scheduling, promoting and hosting webcast sessions. Further development of the assessment plan includes consultation with RAC members and reviewing PNR Network member assessment results.
Mahria created an innovative online learning environment on how to use iPads for nineteen selected network members. Referred to as the iPadxtravaganza, in this environment participants are learning the basics of using the device, productivity apps, and medical apps; and will share how they are using the device in their institution. For the project, Mahria sought and received approval from the University of Washington Institutional Review Board to conduct a quantitative assessment of participants opinion of the online learning tool used for iPadxtravaganza.

PNR staff continued the ongoing process of ensuring that new web pages and documents created for the web are 508 compliant. Mahria reached out to accessibility office at UW for clarification on differences in best practices for creating accessible Microsoft Word documents and Adobe Acrobat PDFs. She created a tracking sheet for 508 status for use in concert with tracking migration status for documents and web pages within the PNR domain. Maddie attended a set of workshops offered by the US Patent and Trademark Office in D.C., on how to create 508 compliant documents and websites. Mahria and Maddie completed all documentation and reporting for the region in regards to 508 compliance progress as requested from NN/LM.

An interregional committee, co-chaired by Cathy (PNR) and Claire Hamasu (MCR) planned and co-hosted “The Research Lifecycle: Partnering for Success” on March 15. Nikki and Mahria also served on the interregional committee. The committee planned an interactive forum about eScience that linked presenters and participants in videoconference studios located in Portland, Seattle and Salt Lake City. Keynote speaker, Victoria Stodden Ph.D. from Columbia University offered insights about standards of open and reproducible research. Panelists shared innovative tools and technologies for collaboration, discovery, data sharing and data management, including eagle-I, VIVO, Red Cap, and the DMP Tool. Breakout sessions at each site discussed opportunities for collaborations between researchers and librarians.

Gary Strong, University Librarian at UCLA accepted an invitation to join the NN/LM PNR RAC, pending his retirement and move to Idaho.

Marita Kunkel, University Librarian at Pacific University accepted an invitation to join the NN/LM PNR RAC.

Members of the RAC Coordinating Committee submitted reports from the breakout sessions they each convened at the RAC meeting on April 16, 2012. PNR staff reviewed and prioritized recommendations provided in the committee reports.

In response to recommendations from the RAC Access Subcommittee, Tania invited Martin Brennan, Copyright and Licensing Librarian at UCLA, to present a webinar on scholarly communications, copyright, and data management for the January RML Rendezvous. Tania also invited RAC members attending the midwinter ALA meeting in Seattle to an informal networking dinner. Two RAC members served as reviewers for proposals submitted by network members during the upcoming Spring 2013 funding cycle.
Network Infrastructure

Table 1: Annual infrastructure data

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<th>Current Year</th>
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<tr>
<td>Network members – full</td>
<td>123</td>
<td>131</td>
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<tr>
<td>Network members – affiliate</td>
<td>249</td>
<td>236</td>
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MedPrint - Medical Serials Print Preservation Program:
PNR is planning to create certificates for each library in the region that signed on to participate in MedPrint, so that participating libraries can display their certificate proudly.

Regional Emergency Preparedness and Response Plan:
Gail chaired a planning committee for the Disaster Summit, held on March 26, and hosted by network member Emily Glenn a Seattle BioMed. This day long workshop centered on a Cascadia Magnitude 9 earthquake as the focus for discussions and involved participants from multiple disciplines including librarians, emergency management personnel, emergency response personnel, and clinical staff. The critical role for community and professional collaboration in emergency preparedness and disaster response was an underlying theme of the event.

Pat recruited Siobhan Champ-Blackwell and Caroline Spellman, health sciences librarians with Aquilent, Inc. to write a column for JAAPA’s “Ask a Librarian” on DMRIC Resources. They answered the question, “How can I prepare to keep my office open if a storm or other event causes long-term power outages and other damage to my office and town?”

E-licensing:
The E-Licensing Consortia in the Pacific Northwest Region page has been updated: (http://nnlm.gov/pnr/rsdd/sharing/index.html).

Identifying unique and historical collections:
At Washington State University – Pullman, Vicki Croft is head of the Animal Health Library, and is a member of the PNR Resource Library group. Vicki is also a member of the Veterinary Medical Libraries Section of the Medical Library Association, which is lobbying for preservation of and continued access to the literature through a national cooperative veterinary serials print retention program, VetPrint.

Cross-regional Collaborative Efforts:

Community College Task Force
Pat serves on the national Community College task force to determine strategies for health information outreach to community colleges, especially those with allied health programs, which play an important role in remediating healthcare workforce shortages in medically underserved areas. She provided information on community college organizations structure in the Pacific NW and conducted test interviews to pilot the questionnaire developed by the task force and the OERC before wider use.

**MedlinePlus Connect Outreach Task Force**

Cathy continued as chair of the national initiative task force for MedlinePlus Connect Outreach, and Nikki is a task force member. During Option Year 1, the task force selected four audience groups to receive focused outreach about MedlinePlus Connect by all 8 RMLs in the NN/LM. The task force divided into teams to interview key informants from the four selected audiences, which are: medical librarians; health IT workforce; Federally Qualified Health Centers; and Regional Extension Centers. Cathy interviewed the directors of regional extension centers in Oregon and Washington-Idaho and Nikki interviewed a PNR Network member who is a solo hospital librarian in a rural setting to learn more about the process of implementing EHRs and the potential for MedlinePlus Connect to be integrated as a source of health information at her hospital.

Results of all task force interviews were analyzed by Cindy who then developed a Key Informant Report. Cathy planned and convened an in-person task force meeting, held on March 21 at the University of Illinois, Chicago. The meeting resulted in a synergistic discussion about the future work of the task force to assist NLM in promoting MedlinePlus Connect. Cathy provided a summary report about the meeting to task force members, and commenced to develop a formalized action plan for next steps.

**Clinical Trials.gov Results Task Force**

Gail participated in regular conference calls for this Task Force that led up to the creation of a class that was developed in PSR for all regions to offer. Gail also assisted in piloting an online class and offered feedback to the course creators. There are abstracts and materials on the Staff Wiki for Coordinators to submit to appropriate conferences where a presentation or class about ClinicalTrials.gov would be relevant.

**OUTREACH:**

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<tr>
<td>Number of major (≥ $15,000) projects funded in contract year:</td>
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<tr>
<td>Number of regional/state/local exhibits conducted by RML:</td>
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<td>Number of regional/state/local exhibits conducted by subcontractors:</td>
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**Information Technology and Transfer:**

Tania developed a new UW HSL position: Translational Research & Collaboration Librarian for the Health Sciences Library. A successful recruitment was conducted for this position, which has responsibilities to collaborate with librarians and translational researchers on various
opportunities to help them engage more fully in the UW Institute for Translational Health Sciences programs, and CTSA funding opportunities.

Gail attended the Bioinformatics Course at Woods Hole, MA in May. Much of the course was dedicated to becoming more familiar with Electronic/Personal Health Records, InfoButtons, standardized terminologies, MedlinePlus Connect, Big Data, etc.

Pat and Mahria volunteered to be part of the Supplemental Support Team for the implementation of Computerized Provider Order Entry (CPOE) module of the ORCA electronic health record at the University of Washington Medical Center and the Harborview Medical Center. UW Health Sciences Librarians and others served as part of a tiered support system and attended training, completed modules, and learned about the EHR in order to provide support as the system went live in the hospital units. Through this experience, participating librarians experienced the work environment of nurses, medical providers, and other health care workers, learning about their information needs, as well as assisting them with questions about the new system.

Mahria attended the Health IT Summit in Seattle, met many CIO, CTOs and primary care providers, speaking with them about MedlinePlus and MedlinePlus Connect. She also spoke about MedlinePlus Connect with a consultant for WIREC (Washington Idaho Regional Extension Center), and was invited to conduct a remote presentation to other WIREC consultants, about MedlinePlus and MedlinePlus Connect.