B. Checklist of Mandatory Qualification Criteria for the Lead Institution

RFP: Access to Electronic Health Information

Institution Name: Poudre Valley Health System

Library’s LIBID: COUZFP

1. The institution is an NN/LM member.
   YES ___ X ___ NO ______

2. The institution:
   (a) is a DOCLINE participant
   YES ___ X ___ NO ______
   OR
   (b) has submitted an application to become a DOCLINE participant
   YES ______ NO ______
   OR
   (c) is a LOANSOME DOC participant in order to provide document delivery service to the targeted population for the duration of the project.
   YES ______ NO ______

3. The total amount being requested does not exceed:
   (a) $10,000 (including indirect cost) for a Single Institution
   YES ______ NO ______
   OR
   (b) $40,000 (including indirect cost) for a Group of Institutions.
   YES ___ X ___ NO ______
III. A. Cost Proposal Cover Sheet

Poudre Valley Health System

Gerald Carlson, Medical Librarian

1024 South Lemay Avenue
Fort Collins, Colorado 80524

Phone: (970) 495-7323
Fax: (970) 495-7652
Email: gmc@pvh.org

Submitted
September 30, 2002
## B. Budget Form

**Submitted by:** Poudre Valley Health System  
**Date Submitted:** September 30, 2002  
**Period Covered:** January 1, 2003 – June 30, 2004

<table>
<thead>
<tr>
<th>EXPENDITURE CATEGORY</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Personnel</strong></td>
<td></td>
</tr>
<tr>
<td>PVHS Medical Librarian – 45 hours x $30/hour = $1,350</td>
<td></td>
</tr>
<tr>
<td>Medical Terminology Instructor – 5 hours x $50/hour = $250</td>
<td></td>
</tr>
<tr>
<td>Public Relations Consultant/Writer – 48 hours x $25/hour = $1,200</td>
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</tr>
<tr>
<td>Artist – 30 hours x $25/hour = $750</td>
<td>$4,050</td>
</tr>
<tr>
<td>Web Site Developer = $500 flat fee</td>
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</tr>
<tr>
<td><strong>Equipment</strong></td>
<td></td>
</tr>
<tr>
<td>Notebook Computers – 4 @ $2,400 each = $9,600</td>
<td></td>
</tr>
<tr>
<td>LCD Projectors – 4 @ $2,000 each = $8,000</td>
<td>$17,600</td>
</tr>
<tr>
<td><strong>Supplies</strong></td>
<td></td>
</tr>
<tr>
<td>Medical terminology textbooks/CDs – 20 @ $45 each = $900</td>
<td></td>
</tr>
<tr>
<td>Deciphering Medspeak Brochures – 500 @ $14 per 50 = $140</td>
<td>$1,040</td>
</tr>
<tr>
<td><strong>Communications</strong></td>
<td></td>
</tr>
<tr>
<td>Interlibrary loan discounts – 275 requests @ $9 each = $2,475</td>
<td>$2,475</td>
</tr>
<tr>
<td><strong>Reproduction</strong></td>
<td></td>
</tr>
<tr>
<td>Print 25,000 brochures &amp; 25 posters = $3,000</td>
<td></td>
</tr>
<tr>
<td>Print training manuals – 200 @ $5 each = $1,000</td>
<td>$4,000</td>
</tr>
<tr>
<td><strong>Other Costs</strong></td>
<td></td>
</tr>
<tr>
<td>Paid Ads – 6 @ $400 each; 2 @ $700 each = $3,800</td>
<td></td>
</tr>
<tr>
<td>Travel – 1,780 miles @ $0.35/mile = $623</td>
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</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td>$33,588</td>
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<tr>
<td><strong>Indirect Costs</strong></td>
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<tr>
<td>Poudre Valley Health System @ 8 percent</td>
<td>$2,687</td>
</tr>
<tr>
<td><strong>TOTAL REQUEST</strong></td>
<td>$36,275</td>
</tr>
</tbody>
</table>
C. Budget Narrative

The total amount requested from NN/LM to support this project is $36,275. In-kind contributions toward the project total $14,100.

1. Personnel

No new regular staff members will be hired as a part of this project. An artist, a writer, a web designer, and a medical terminology instructor will be hired on a contract basis to perform specific tasks described in the proposal. All other activities and tasks will be accomplished by existing staff members of participating libraries. Existing librarians are providing a significant in-kind donation to this project in the form of staff time. Poudre Valley Health System’s medical librarian is providing 70 hours of time @ $30/hour = $2,100 in-kind donation. Public librarians are providing 400 hours of time @ $25/hour = $10,000 in-kind donation.

PVHS Medical Librarian
The Poudre Valley Health System medical librarian will assist local community library staff in designing and analyzing patron needs assessment surveys and developing localized outreach and education plans, assist in the development of the publicity and promotion campaign, conduct all training and education sessions for community library staff and volunteers, and facilitate the “kick-off” event in each local community. The medical librarian will also provided enhanced research support and assistance to participating community librarians during the project period and beyond. Sixty-five percent of the Poudre Valley Health System medical librarian’s time spent on this project will be supported by the NN/LM grant. Grant request is for 45 hours of time x $30/hour = $1,350 total.

Medical Terminology Instructor
A contracted medical terminology instructor will provide a three-hour session during the all-day group training session at Poudre Valley Hospital for at least four staff and volunteers from each of the four participating local libraries. Grant request is for 5 hours of planning and presentation time x $50/hour = $250 total.

Public Relations Consultant/Writer and Artist
A contracted public relations consultant/writer and an artist will collaborate using the community needs assessment surveys, community outreach/education plans, and local community knowledge as a basis of information from which to work with local public librarians to develop the concept, theme, and design for a comprehensive publicity and promotion campaign for the project. Grant request is for 30 hours of time for the artist @ $25/hour = $750, and 48 hours of time for the public relations consultant/writer @
$25/hour = $1,200. Total contracted staff time for the publicity and promotion campaign is $1,950.

**Web Site Developer**
With the assistance of Poudre Valley Health System’s medical librarian and local librarian partners, a contracted web site developer will create a new health information page on the Red Feather Lakes Community Library web site for access by community library patrons, consumers, and residents throughout Colorado. Red Feather Lakes Community Library will maintain its existing web site and the new health information page. Grant request is for the $500 flat fee charged by the web site developer to add up to three pages to the existing site.

**2. Equipment**
All facility space and patron computers to provide staff, patron, and consumer education/training sessions at Poudre Valley Hospital (one all-day session for 16 staff/volunteers), at local public libraries (eight two-hour sessions for 10 – 20 patrons at each of four libraries), and at a site central to member libraries of the High Plains Regional Library Services System (one half-day session for 20 staff/volunteers) is being provided as an in-kind donation. Up to 80 hours of facility time @ $25/hour = $2,000 in-kind donation.

**Computers**
Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, and Wellington Public Library will each provide ongoing patron and community training programs on how to identify, access, retrieve, evaluate, and use print and electronic health information resources and services, including MEDLINEplus, ClinicalTrials.gov, and PubMed, and Loansome Doc. Notebook computers will be used to support ongoing patron and community classes from each of the participating public libraries. Specifications of the Gateway 450xl notebook computers include: Pentium 4 processor, running at 2.0 GHz; 15” screen; 512 MB DDR SDRAM (memory); 50 GB hard drive; CDRW drive; Windows 2000; MS Office 2000 (includes PowerPoint for presentations); 56k modem; several expansion ports. Grant request is for four computers @ $2,400 each = $9,600 total

**LCD Projectors**
Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, and Wellington Public Library will each provide ongoing patron and community training programs on how to identify, access, retrieve, evaluate, and use print and electronic health information resources and services, including MEDLINEplus, ClinicalTrials.gov, and PubMed, and Loansome Doc. LCD projectors will be used to support ongoing patron and community classes from each of the participating public libraries. Grant request is for four LCD projectors @ $2,000 each = $8,000 total.
3. Supplies

Medical terminology textbooks/CDs
At least four staff and volunteers from each of the four participating local libraries will participate an all-day group training session at Poudre Valley Hospital. Training topics include: medical reference interviewing; how to identify, access, retrieve, evaluate, and use print and electronic health information resources and services, including MEDLINEplus, ClinicalTrials.gov, PubMed, and Loansome Doc; basic medical terminology; and how to find/evaluate health information on the Internet. Grant request is for 20 medical terminology textbooks and CD-ROMs @ $45 each = $900 total.

Deciphering Medspeak Brochures
Each of the four local community libraries will provide continuing education to teach patrons, consumers, and residents how to identify, access, retrieve, evaluate, and use print and electronic health information resources and services, including MEDLINEplus, ClinicalTrials.gov, and PubMed, and Loansome Doc. Public libraries will supplement consumer education about select health information sites and medical terminology utilizing the Medical Library Association's "Understanding Medspeak" brochure. Grant request is for 500 copies of the brochure @ $14 per 50 = $140 total.

4. Communications

Interlibrary loan discounts
Poudre Valley Health System’s Medical Library will provide a 50 percent discount on the total $18 cost to obtain and deliver interlibrary loan materials via Loansome Doc for patrons of the four participating community libraries. Each library will be able to utilize the discount program for up to six interlibrary loan requests per month. Grant request is for 275 requests @ $9 discount = $2,475 total.

5. Reproduction

Brochures and Posters
Brochures and posters will be developed that provide information about the project and training/event schedules in local communities: 4,000 brochures and five posters will be delivered to each of the four participating public libraries, with an additional 4,000 brochures and five posters to be used by Poudre Valley Health System’s Medical Library and participating member libraries of the High Plains Regional Library Services System. Grant request is for a total of 20,000 brochures and 25 posters to be printed for a total cost of $3,000.

Training Manuals
At least four staff and volunteers from each of the four participating local libraries will participate an all-day group training session at Poudre Valley Hospital. Training topics include: medical reference interviewing; how to identify, access, retrieve, evaluate, and use print and electronic health information resources and services, including MEDLINEplus, ClinicalTrials.gov, PubMed, and Loansome Doc; basic medical terminology; and how to find/evaluate health information on the Internet. Each of the four local community libraries will also provide continuing education for patrons, consumers, and residents. Grant request is for a total of 200 staff and patron training manuals to be printed @ $5 each = $1,000 total.

6. Other Costs

Paid Ads
Quarter-page print advertisements will be placed in the local newspapers serving the Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, and Wellington Public Library. Paid ads will promote each community’s “kick-off” event and follow-up training session. Newspapers targeted for paid ads include: Berthoud Recorder (2 ads @ $400 each), Estes Park Gazette (2 ads @ $400 each), Fort Collins Coloradoan (2 ads @ $700 each), and North Forty News (2 ads @ $400 each). Grant request is for $3,800 total.

Travel
The Poudre Valley Health System medical librarian will travel a total of 660 miles during this project to conduct training and education sessions in local communities. For the “kick-off” event and follow-up training program, this includes two trips to Berthoud @ 40 miles each; two trips to Estes Park at 100 miles each; two trips to Red Feather Lakes at 100 miles each; and two trips to Wellington @ 40 miles each. He will also travel 100 miles for the training of staff of member libraries of the High Plains Regional Library Services System. Local public librarians will travel a total of 1,120 miles to attend the all-day training session at Poudre Valley Hospital. Eight staff will travel 100 miles each and eight staff will travel 40 miles each. Grant request is for mileage reimbursement for 1,780 miles @ $0.35/mile = $623 total.
C. Project Narrative

1. Abstract

Poudre Valley Health System’s Medical Library (NN/LM member) has organized a multitype library partnership with Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, and Wellington Public Library to provide and enhance access to electronic health information for underserved consumers in rural and geographically isolated communities along Colorado’s northern Front Range. This collaborative project will ensure that consumers in these underserved communities are connected to the health information resources they need to make informed health care decisions. Specifically, the project will:

- Assess the health information needs of library staff, patrons, and consumers in the communities of Berthoud, Estes Park, Red Feather Lakes, and Wellington;

- Train up to 40 staff and volunteers at Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, Wellington Public Library, and member libraries of the High Plains Regional Library Services System to provide health information services to library patrons, consumers, and community residents;

- Educate up to 450 library patrons and consumers in the communities of Berthoud, Estes Park, Red Feather Lakes, and Wellington to identify, access, retrieve, evaluate, and use print and electronic health information resources and services;

- Enhance access to electronic health resources for up to 32,000 librarians, patrons, and consumers at Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, and Wellington Public Library.

The partnership’s overall goal for evaluation is to determine the effectiveness of the project in increasing underserved communities’ knowledge and access to electronic health resources as well as the usefulness of the resources themselves. Evaluation strategies will: measure increased knowledge of staff, volunteers, and consumers; identify the health information that consumers access and monitor the rate of usage for electronic resources; and solicit from consumers the perceived usefulness of the information and the partnership’s success in meeting local communities’ needs and expectations with appropriate outreach and training/education strategies.

2. Introduction and Background

The lead institution for this project is Poudre Valley Health System in Fort Collins, Colorado, which is a locally owned non-profit organization that operates Poudre Valley
Hospital (253 beds) and other health services in Colorado, Nebraska, and Wyoming. The mission of Poudre Valley Health System is to enhance the well-being of people in our communities by being a leader in providing high quality, innovative, and cost-effective health care. Poudre Valley Health System’s Medical Library was established in 1979.

Following is the background of the participating community libraries:

**Berthoud Public Library**
The Berthoud Public Library is a municipal library providing library services to the residents of the Town of Berthoud, Colorado and its surrounding rural area located in southeastern Larimer County. The mission of the Berthoud Public Library is to provide access to popular and informational books, other materials, and services that inform, educate, and culturally enrich the people of the Berthoud Community. Library collections include books, periodicals, videos, books on tape, and music CDs. Programs and services offered by the Library include children’s story times, adult literacy classes, computers for word processing, Internet access, and public meeting room space. The Library is open 47 hours a week including some evenings and on Saturdays. Along with several dozen volunteers, the Library is staffed by a full-time professional library director and several part-time assistants.

**Estes Park Public Library**
The local women’s club formed the Estes Park Public Library in 1916. The Estes Valley Public Library District was formed in 1988, making the Library an autonomous taxing entity. The current library building was constructed in 1991 and renovated and expanded in 2001. The Library is on Estes Park’s main street (Elkhorn Avenue), anchoring the downtown area with the adjacent Estes Park Municipal Building. The Library district employs a staff of 16 (12 FTE) and enjoys the contributions of more than 50 volunteers. The Library collection includes approximately 46,000 books and non-print items such as music CDs, videocassettes, books on tape and CD, and CD-ROMs.

**Red Feather Lakes Community Library**
The Red Feather Lakes Community Library was organized by a local women’s group in 1969 with 200 donated books on shelves in the basement of the community building. In 1986, local donations of land, time, money, and effort provided a new attractive and functional library centrally located in the community. For many years, the Library was operated by a nonprofit foundation and run with a primarily volunteer workforce of over 50 people. In 1995, a part-time library director was hired to help professionalize the Library. The director’s salary was paid by donations; an endowment fund (currently at $300,000) has been set up to provide continuing support. In 2001 the Red Feather Mountain Library District was formed; the first year of the Library District operation, visitors and circulation both increased by more than 70 percent over 2000. The Library is currently staffed by a full-time director and full-time children’s librarian. Volunteers still contribute over 2000 hours annually. The Library is open 38 hours a week and offers diverse programming for children and adults, including weekly story hour and craft and computer classes for adults. Library collections include books, videos, books on tape, periodicals, music CDs, educational software, a children’s toy lending collection, and
local history collection. There is an active Friends group that operates two book sales a year and does other fundraising activities.

**Wellington Public Library**

In the late 1970's a group of Wellington area citizens began meeting with the aim of establishing a library in the Town of Wellington. The goal was to provide easily accessible library services for those that either couldn't, or preferred not to, drive to Fort Collins to use a library. After much hard work by volunteers, the Wellington Public Library opened in June 1979, with a few hundred used books on the shelves. In 1980 the Library moved into two small offices in the new Leeper Community Center. Ten years later the Library was packed with over 8,000 books crowded into 450 square feet. That led to the 1992 Library expansion, which resulted in the present 1,800 square foot facility. Today the Wellington Public Library contains almost 13,000 books, dozens of magazine titles, and many audio books and videocassettes. Annual circulation of books and other materials is 20,000 and approximately 4,000 library patrons are in the database. Wellington Public Library has had a long relationship with the local elementary and junior high schools for research, homework support and involvement in our summer reading program, which draws over 300 children. During the summer the Library also presents free programs to the public on a wide variety of topics. The Library offers story time twice monthly for pre-school age children as well as enrichment activities and story time for the local day care center. Plans to expand the Library are included in its long-range plan.

### 3. Identification of Need

The Poudre Health Services District, which serves the northern portion of Larimer County, conducts community surveys every three years to determine the health status and health needs of local residents. The most recent survey points to the increasing frustration felt by local consumers. Respondents were asked if they or anyone in their household needed any of 19 health and human services during the past year. “Information and referral” was identified as one of the most frequently needed services, and one of the primary reasons given for not seeking services was “Didn’t know where to go.”

The Pew Internet and American Life Project found that 64 percent of Americans with Internet access use it to “look for health/medical information.” According to Neilson/Net Ratings, search engines are among the most popular sites on the Internet, accessed by one in three American Internet users. Although search engines are among the most used sites, they are not always the most efficient. For example, when we conducted a search for information on “diabetes” on several well-known search engines, we found: 2,780,000 matches on Google.com; and 19 category matches and 312 Web site matches on Yahoo.com. With searches returning millions of matches, how are ordinary consumers going to find the best sites? Once they get to a site, consumers are often ill-equipped to interpret the information they find. How are they to sift through the many sales-oriented sites or know which site is the most reliable?
“Searching looks simple. It is not. It is a cerebral exercise which over time and with practice appears deceptively easy.”


Within the context of this well-understood and broader need for more and enhanced consumer access to electronic health information, the community libraries participating in this project have identified the following additional specific barriers to health information access for their patrons:

**Distance from Health Services and Information**

Patrons of the libraries in the communities of Berthoud, Estes Park, Red Feather Lakes, and Wellington live 20 to 50 miles away from either the Fort Collins Public Library’s HealthAware Collection or Poudre Valley Health System’s Medical Library. Harsh weather and mountain roads can often restrict access to Fort Collins. Additionally, both the communities of Red Feather Lakes and Wellington have no medical practitioners and medical information at all of the public libraries is in short supply.

**Training of Library Staff and Volunteers**

Patrons trying to research from public library computers often find there is too much information on the Internet and they are unable to determine its credibility. The participating small rural libraries are staffed by generalists with no training in medical research databases. Trained library staff with increased knowledge of medical resources could aid patrons in their search for information and increase consumers’ ability to find information they need.

**Intimidation by Patrons and Consumers**

Patrons at participating public libraries (older, rural, and lower income) are often intimidated by computers and unwilling to ask for help. Education will empower them to research the web and other databases for information they need.

**Limits of Dial-up Access**

Residents of rural areas often have technological difficulties in connecting to web sites and staying on the phone lines. Participating libraries all have high-speed access to the Internet.

Library patrons, consumers, and residents – especially those in rural and geographically isolated communities – need assistance in finding, accessing, and evaluating health-oriented web sites using the high-speed access lines typically found only at local public libraries. Staff and volunteers at local public libraries need additional and specific training geared toward helping patrons navigate through the “clutter” in the Internet and avoid falling victim to inaccurate or misleading health information. And seekers of web-based health information need a quality-controlled gateway to reliable web sites.
“The point is that anytime an unnecessary test is avoided, or a more relevant one applied, the patient, the hospital, the physician and even the insurance companies benefit from lower costs.”


4. Identification and Description of Target Population and Geographic Area

Berthoud Public Library
Berthoud Public Library serves patrons in three counties (Larimer, Weld, and Boulder). The population of the Town of Berthoud is currently 4,839 and the total service area population for the Berthoud Public Library is 11,503. The growth rate for the town since the 1990 census is 62 percent. Median age of Berthoud residents is 35.4 and average household size of 2.65 individuals. Median household income is $52,672; mean retirement income is $12,296. Ten percent of residents over age 65 live below the poverty level. Nearly 10 percent of residents are Hispanic or Latino, and 6 percent of residents live in a non-English speaking household (primarily Spanish). Nearly 40 percent of single-parent families with children under the age of five are below the poverty level, and in 14 percent of households a grandparent is responsible for grandchildren. Twenty-six percent of residents have a high school degree, and 30 percent have obtained a bachelor’s degree.

The Berthoud Public Library has four public Internet stations, four Internet stations for staff, and one shared station. Internet access is supported by an ISDN line. Health resources available at the Berthoud Public Library include Dorland’s Medical Dictionary, American Medical Association’s Handbook of Poisonous and Injurious Plans, American Medical Association’s Book of Back Care, American Medical Association’s Family Medical Guide, and Reader’s Digest Family Health Guide.

Estes Park Public Library
The Estes Valley Public Library District serves a population of approximately 11,000 in an area that includes the town of Estes Park (an expensive tourist destination) and is bounded by Boulder County (south), Glen Haven (north), Drake (east), and Rocky Mountain National Park (west). More than 36 percent of residents are retirees, and nearly 50 percent of workers are in the service and recreation industries. Median age of residents is 45 years; average household size is 2.1. Median household income is $43,262, and 4 percent of residents live at poverty level. Mean retirement income is $36,789, and less than one percent of residents over age 65 live below the poverty level. Ninety-four percent of residents have obtained a high school degree, and 43 percent have earned a bachelor’s degree or higher.
Internet access at the Estes Park Public Library is provided via T-1 line. There are eight Internet workstations for patron use and ten Internet stations for staff use. Health information services include basic research assistance and health resources include: Physicians Desk Reference 2002, Dorland Illustrated Medical Dictionary, Harvard Medical School Family Health Guide, Johns Hopkins White Papers, Harrison’s Principles of Internal Medicine, Merck Manual, and America’s Top Doctors.

**Red Feather Lakes Community Library**
Red Feather Lakes, a village of approximately 400 year-round residents, is 50 miles northwest of Fort Collins, Colorado, the closest city that offers health services. The Red Feather Lakes Community Library is operated by the Red Feather Mountain Library District whose service population is approximately 3,700 full-time residents in the communities of Red Feather Lakes, Crystal Lakes, Glacier View Meadows, Green Mountain Meadows, Deer Meadows, Hewlett Gulch, Upper Poudre Canyon, and rural areas between. These communities are rural mountain subdivisions in unincorporated northwestern Larimer County. The median age of the population, according to the 2000 census is 54 and average household size is 2.1. Median household income is $33,527, and the poverty level is 10 percent. More than 60 percent of residents are retired; mean retirement income is $14,916, and 10 percent of residents age 65 and over are below poverty level. Eighty-eight percent of residents have graduated from high school, and 15 percent have earned a bachelor’s degree or higher.

Red Feather Lakes Community Library has six Internet workstations for patrons and two for staff; all are on a DSL line. The Library offers basic research assistance and has a few popular (self-help) medical resources in addition to the following references: Physician’s Desk Reference, American Medical Association's Family Health Guide, Black's Medical Dictionary, Gould's Medical Dictionary, and Merk Manual (CD).

**Wellington Public Library**
The current population of the Town of Wellington is 3,000 with approximately 3,500 people living in the surrounding unincorporated county area. The Wellington Public Library service area population is 6,000. Library constituency served consists of all ages, although nearly 50 percent of the population in Wellington is below 18 years of age. There are 600 children attending the elementary school and 326 children attending the junior high school. Approximately 27 percent of the children are receiving free or reduced lunches through the federal school lunch program. Wellington families are primarily middle income but 10 percent are below poverty level. Wellington offers lower priced housing options compared to other areas, such as Fort Collins, in Larimer County. Poverty level in Wellington is 10.2 percent and the community has a 13 percent Hispanic population. Residents’ median household income is $47,917, and mean retirement income is $14,723. Twelve percent of residents are Hispanic or Latino, and more than 10 percent live in a Spanish-speaking household.

Wellington Public Library provides basic research assistance and has a small number of reference materials such as Merk Manual, Physician’s Desk Reference, and Medical
dictionaries. Internet access is provided via an ISDN line, and the Library has three Internet workstations for staff and two for patrons.

*All data from U.S. Census Bureau at http://factfinder.census.gov/servlet/BasicFactsServlet.

5. Project Objectives

The goal of the project is to provide and enhance access to electronic health information for underserved library patrons, consumers, and residents in rural and geographically isolated communities along Colorado’s northern Front Range. Through the formation of a multitype library partnership with Poudre Valley Health System’s Medical Library (NN/LM member) and four community-based public libraries, this project will ensure that library patrons, consumers, and residents in these underserved communities are connected to the health information resources they need to make informed health care decisions.

The objectives of the project are to:

- Assess the health information needs of library staff, patrons, and consumers in the communities of Berthoud, Estes Park, Red Feather Lakes, and Wellington;
- Train up to 40 staff and volunteers at Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, Wellington Public Library, and member libraries of the High Plains Regional Library Services System to provide health information services to library patrons, consumers, and community residents;
- Educate up to 450 library patrons and consumers in the communities of Berthoud, Estes Park, Red Feather Lakes, and Wellington to identify, access, retrieve, evaluate, and use print and electronic health information resources and services;
- Enhance access to electronic health resources for up to 32,000 librarians, patrons, and consumers at Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, and Wellington Public Library.

Training and education of local public library staff, volunteers, and patrons and the development of tools to enhance access to electronic health resources will occur within the context and under the guidance of the generally accepted practices set forth by the National Network of Libraries of Medicine, Medical Library Association, and CAPHIS (Consumer and Patient Health Information Section). Poudre Valley Health System's medical librarian will teach local public librarians and volunteers how to: provide their own quality control and in turn educate patrons and consumers how to analyze a web site based on design, content, technical, origin, and other criteria; evaluate the origin and content of the different kinds of web sites: advocacy, business, information, news, and personal; and find and use the safest and most trustworthy resources for patrons and
consumers, such as MEDLINEplus.gov, ClinicalTrials.gov, PubMed, and HealthFinder. A key part of this project will be the introduction of MEDLINEplus.gov/esp to Spanish-speaking populations, primarily in the communities of Berthoud and Wellington.

6. Methodology

- Assess the health information needs of library staff, patrons, consumers, and residents in the communities of Berthoud, Estes Park, Red Feather Lakes, and Wellington;

During the first quarter of the project, Poudre Valley Health System’s medical librarian will work with librarians at the Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, and Wellington Public Library to develop a one-page, multiple-choice survey. This tool will be used to assess patrons’ and community residents’ health status; health information needs (topics and format, i.e. summaries, journal articles, self-help groups); present methods of obtaining health information, how health information is used, and satisfaction with these methods; level of computer and technical skills (use of mouse, Internet); and preferred method of learning (group, one-on-one, self teaching from manual). The Poudre Valley Health System medical librarian will also develop and administer tools to test and survey public library staff and volunteers on their ability and comfort in providing health information.

During the first quarter of the project, community libraries will coordinate the distribution and collection of surveys, and during the second quarter library staff will compile and summarize local survey results. All staff time to create, administer, and analyze surveys (five hours for Poudre Valley Health System’s medical librarian and five hours for each of the four public librarians) and all photocopying costs (500 surveys @ $0.5 each) are being provided as an in-kind donation.

- Train staff and volunteers at Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, Wellington Public Library, and member libraries of the High Plains Regional Library Services System to provide health information services to library patrons, consumers, and community residents;

During the second quarter of the project, Poudre Valley Health System’s medical librarian and medical terminology instructor will provide an all-day group training session at Poudre Valley Hospital for at least four staff and volunteers from each of the four participating local libraries (at least 16 participants total). Training topics include: medical reference interviewing; how to identify, access, retrieve, evaluate, and use print and electronic health information resources and services, including MEDLINEplus, ClinicalTrials.gov, PubMed, and Loansome Doc; basic medical terminology; and how to find/evaluate health information on the Internet. Training space, computer time, and lunch for presenters and participants are being provided as an in-kind donation; grant funds are being requested to assist with the cost of purchasing medical terminology textbooks and CD-ROMs (20 @ $45 each), printing training manuals (20 @ $5 each),
paying for the time of the medical terminology instructor (five hours @ $50/hour) and the Poudre Valley Health System medical librarian (10 hours @ $30/hour), and paying mileage costs for community librarians (1,120 miles @ $0.35/mile).

During the fifth quarter of the project, with the assistance of trained local community library staff, Poudre Valley Health System’s medical librarian will provide one half-day training session for at least 20 staff and volunteers from member libraries of the High Plains Regional Library Services System. Training topics include: medical reference interviewing; how to identify, access, retrieve, evaluate, and use print and electronic health information resources and services, including MEDLINEplus, ClinicalTrials.gov, PubMed, and Loansome Doc; and how to find/evaluate health information on the Internet. Training space and computer time are being provided as an in-kind donation; grant funds are being requested to assist with printing training manuals (20 @ $5 each) and paying for the time of the Poudre Valley Health System medical librarian (five hours @ $30/hour).

- Educate library patrons, consumers, and residents in the communities of Berthoud, Estes Park, Red Feather Lakes, and Wellington to identify, access, retrieve, evaluate, and use print and electronic health information resources and services;

During the first quarter of the project, Poudre Valley Health System’s medical librarian will assist local librarians in using survey results to tailor appropriate outreach and training/education strategies to their respective communities. Each community library will develop an individualized outreach and education plan that is responsive to patrons’ and community residents’ health status, health information needs, level of computer and technical skills, and preferred method of learning. All library staff time to develop outreach and education plans (five hours for Poudre Valley Health System’s medical librarian and five hours for each of the four public librarians) is being provided as an in-kind donation.

During the third quarter of the project, Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, and Wellington Public Library will each pilot a patron training program on how to identify, access, retrieve, evaluate, and use print and electronic health information resources and services, including MEDLINEplus, ClinicalTrials.gov, and PubMed, and Loansome Doc. All library staff time to provide the classes (five hours for each of the four public libraries) as well as facility space and computers are being provided as an in-kind donation; grant funds are being requested to assist with printing training manuals (160 @ $5 each) and purchasing LCD projectors (four projectors @ $2,000 each) and lap-top computers (four computers @ $2,400 each) to support ongoing patron and community classes at each of the participating public libraries.

In the fourth quarter of the project, Poudre Valley Health System’s medical librarian will work with local library staff to provide a two-hour public educational session and “kick-off” event for library patrons, consumers, and residents at each of the four participating
community libraries. Participants will learn about the electronic health resources available to them on the Internet and the importance of having the skills to identify, access, and evaluate these resources, and participate in a hands-on demonstration of MEDLINEplus, ClinicalTrials.gov, and PubMed. These events will occur during National Medical Library month in October. Estes Park Public Library and Red Feather Lakes Community Library will hold their events on Saturday afternoons in order to attract part-time as well as full-time residents; Berthoud Public Library and Wellington Public Library will hold their events on weekday afternoons. All public library staff time to plan and provide the public educational sessions (five hours for each of the four public libraries) as well as facility space and computers are being provided as an in-kind donation; grant funds are being requested to assist with paying time (15 hours x $30/hour) and mileage (280 miles @ $0.35/mile) for Poudre Valley Health System’s medical librarian.

In the fourth, fifth, and sixth quarters of the project, each of the four local community libraries will provide continuing education to teach patrons, consumers, and residents how to identify, access, retrieve, evaluate, and use print and electronic health information resources and services, including MEDLINEplus, ClinicalTrials.gov, and PubMed, and Loansome Doc. All library staff time to provide the classes (10 hours for each of the four public libraries) as well as facility space and computers are being provided as an in-kind donation.

During the sixth quarter of the project, Poudre Valley Health System’s medical librarian will provide one two-hour in-depth training and education session at each of the four local community libraries for new library staff and volunteers as well as interested patrons, consumers, and residents. All public library staff time to plan and provide the sessions (five hours for each of the four public libraries) as well as facility space and computers are being provided as an in-kind donation; grant funds are being requested to assist with paying time (15 hours x $30/hour) and mileage (280 miles @ $0.35/mile) for Poudre Valley Health System’s medical librarian.

Additional consumer education about select health information sites as well as medical terminology will be provided through the Medical Library Association's "Understanding Medspeak" brochure. Grant funds are being requested to purchase 500 copies of the brochure @ $140.

- **Enhance librarian and patron access to electronic health resources at Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, and Wellington Public Library.**

With the assistance of Poudre Valley Health System’s medical librarian and local librarian partners, Red Feather Lakes Community Library will develop and maintain on its existing web site a new health information page for community library patrons, consumers, and residents throughout Colorado. The concept for the page will be developed during the second quarter of the project, and the page will go live during the third quarter of the project. The page will include information and instruction about
researching medical and health information on the Internet, search hints/tips, and direct links to quality, credible medical and health resources such as PubMed, MEDLINEplus, ClinicalTrials.gov and other regional, state, and local consumer health information. This new web page will be registered with the major Internet search engines. In addition to the four participating community libraries, which will each have a special link to the page on their web sites, all public libraries in the state of Colorado will have direct access to the page through a link on the ACLIN (Access Colorado Library Information Network) web site. The NN/LM Colorado liaison will be utilized to link the new health information web page to the Colorado Consumer Health Page (http://nnlm.gov/mcr/states/colorad.php) and the NN/LM Colorado Libraries Page (http://nnlm.gov/mcr/states/colibs.php). All costs for maintaining and updating the new web page are being provided as an in-kind donation; grant funds are being requested to assist with developing the web page ($500 one-time charge).

During the third through sixth quarters of the grant period, Poudre Valley Health System’s Medical Library will provide a 50 percent discount on the total $18 cost to obtain and deliver interlibrary loan materials via Loansome Doc for patrons of the four participating community libraries. Each library will be able to utilize the discount program for up to six interlibrary loan requests per month. Grant funds are being requested to assist with providing the discounts (275 requests @ $9 discount) to community libraries.

During the fourth, fifth, and sixth quarters of the grant period, Poudre Valley Health System’s medical librarian will also provide an estimated five hours per month of consultation with librarians from participating local communities in researching difficult medical/health research questions from their patrons and on searching PubMed and other electronic health information resources. All library staff time (60 hours) is being provided as an in-kind donation.

Poudre Valley Health System’s medical librarian will encourage and assist public libraries to become associate members of NN/LM so that the partnership can fully utilize available resources to complete this project and continue to provide enhanced access to electronic health resources after the grant period. Additional promotion of MEDLINEplus.gov, MEDLINEplus.gov/esp, ClinicalTrials.gov, and PubMed will be provided through NLM bookmarks and posters obtained from the Regional Medical Library.

### Time Line of Activities

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<td>Develop/distribute local needs</td>
<td>Develop concept/design for publicity</td>
<td>Deliver brochures and posters to</td>
<td>Public “kick-off” event in each</td>
<td>Promotion of project via presentations</td>
<td>Continued promotion of project via</td>
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7. Evaluation Plan

The partnership’s overall goal for evaluation is to determine the effectiveness of the project in increasing underserved communities’ knowledge and access to electronic health resources as well as the usefulness of the resources themselves. The evaluation process, which as been based on guidelines provided in Measuring the Difference: a Guide to Planning and Evaluating Health Information Outreach (published by NN/LM, Pacific Northwest Region) includes the following:

- Measure increased knowledge of staff, volunteers, and consumers;

Pre- and post-knowledge assessment questionnaires will be administered following each training session for library staff and consumers. Public library staff will track and report the number of health information reference questions from patrons and consumers and
will be asked to evaluate and report their skill level and ability to provide health information service to the public. Public library staff will be tested and surveyed periodically on their ability and comfort in providing health information and will be evaluated on their ability to find the requested information quickly via MEDLINEplus without calling the Poudre Valley Health System medical librarian for backup. Results will be compiled and analyzed for each NN/LM quarterly grant report and local training and education plans will be adjusted as necessary.

- **Identify the health information that consumers access and monitor the rate of usage for electronic resources;**

Public librarians will monitor the number of consumers who attend education and training sessions at local community libraries. Once each week during the grant period, library staff at each participating community library will review the daily history of Internet usage and maintain a set of logs from which to analyze and report data for the NN/LM quarterly grant reports. A web site counter will also monitor the number of “hits” on the new Red Feather Lakes Community Library electronic health information web page. Loansome Doc usage will be evaluated using QuickDoc by assigning each new user a "Department" code based on his/her public library and periodically generating reports of usage by department. The PVHS Medical Librarian will also track consultation requests from public library staff.

- **Solicit from consumers the perceived usefulness of the information and the partnership’s success in meeting local communities’ needs and expectations with appropriate outreach and training/education strategies;**

An online questionnaire will be included on the new Red Feather Lakes Community Library electronic health information web page and in hard copy adjacent to patron Internet stations at each participating community library. Questionnaires will ask users to report methods of obtaining health information, how health information is used, and satisfaction with these methods. Users will also answer multiple choice questions designed to evaluate the success of the project in meeting local communities’ needs and expectations, and they will be encouraged to provide anecdotal stories indicating the usefulness of the skills they have learned as well as the information they access.

All public library staff time to develop and administer evaluation tools and analyze results (30 hours for each of the four public libraries) will be provided as an in-kind donation to the project.

### 8. Publicity/Promotion

A key part of this project is the development and implementation of a comprehensive promotion and publicity campaign targeting the communities of Berthoud, Estes Park, Red Feather Lakes, and Wellington, and also reaching communities with member libraries of the High Plains Regional Library Services System. The purpose of the
campaign will be to help library patrons, consumers, and residents become more aware of the vast electronic health resources available on the Internet; educate these groups about the helpful and easy-to-use navigation and search tools available at their local libraries; and promote the local education and training opportunities that are made available through the support of NN/LM.

During the second quarter of the project, a contracted artist and a public relations consultant/writer will use the community needs assessment surveys, community outreach/education plans, and local community knowledge as a basis of information from which to work with local public librarians to develop the concept, theme, and design for a comprehensive publicity and promotion campaign for the project. Grant funds are being requested to assist with hiring the contracted artist (30 hours @ $25/hour) and public relations consultant/writer (48 hours x $25/hour).

During the second quarter of the project, brochures and posters will be developed that provide information about the project and training/event schedules in local communities. A total of 20,000 brochures and 25 posters will be printed for a total cost of $3,000. During the third quarter of the project 4,000 brochures and five posters will be delivered to each of the participating public libraries (Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, and Wellington Public Library), with the additional 4,000 brochures and five posters to be used by Poudre Valley Health System’s Medical Library and participating member libraries of the High Plains Regional Library Services System. Library staff will deliver, distribute, and place brochures and posters. All brochures and posters will state “This project was funded with an award from the National Library of Medicine (www.nlm.nih.gov).” Grant funds are being requested to assist with the cost of printing these materials.

During the third and fifth quarters of the project, quarter-page print advertisements and earned publicity will be placed in the local newspapers serving the Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, and Wellington Public Library. Paid ads will promote each community’s “kick-off” event and follow-up training session. Newspapers targeted for paid ads include: Berthoud Recorder (2 ads @ $400 each), Estes Park Gazette (2 ads @ $400 each), Fort Collins Coloradoan (2 ads @ $700 each), and North Forty News (2 ads @ $400 each). Free earned publicity will be targeted via the Senior Voice, City of Fort Collins Senior Center newsletter, Poudre Valley Hospital’s Aspen Club newsletter and HealthAware newspaper, Poudre Valley Hospital Foundation’s Monitor newsletter, and Poudre Health Service District’s Compass newspaper, and which serve all participating communities and together reach an estimated 50 percent of the area’s population. All advertisements will state “This project was funded with an award from the National Library of Medicine (www.nlm.nih.gov).” Grant funds are being requested to assist with the cost of placing paid advertisements.

During quarters five and six, local public library staff will make presentations to community organizations and service clubs in order to promote this NN/LM-supported project, educate patrons, consumers, and residents about the advantages of searching electronic resources for health information, and inform them about the enhanced
electronic resources, services, and programs available at local libraries. Each participating public library will sponsor, host, or arrange for at least five presentations, resulting in a total of 20 community presentations provided as an in-kind donation during the grant period alone. All presentations will include acknowledgment that the project was funded with an award from the National Library of Medicine; all printed announcements of these will state “This project was funded with an award from the National Library of Medicine (www.nlm.nih.gov).”

All public library staff time to assist in the design and implementation of the publicity and promotion of the project (30 hours for each of the four public libraries) will be provided as an in-kind donation to the project.

9. Personnel

No new regular staff members will be hired as a part of this project. An artist, a writer, a web designer, and a medical terminology instructor will be hired on a contract basis to perform specific tasks described above. All other activities and tasks will be accomplished by existing staff members of participating libraries and all public librarian staff time will be provided as an in-kind donation to the project. Key staff members from the participating libraries are:

**Gerald M. (Jerry) Carlson, Medical Librarian, Poudre Valley Health System**

Jerry will serve as the principal investigator of this project. He has been the Medical Librarian for Poudre Valley Health System since March 1989, following his graduation from the University of Illinois with a Master of Science in Library and Information Science and a stint as volunteer librarian for the VA Medical Center in Cheyenne, Wyoming. Jerry is an active member of the Medical Library Association, its Hospital Library Section, and its Mid-Continental Chapter (MCMLA); the Northeastern Colorado and Wyoming special Librarians; and the Colorado Council of Medical Librarians (CCML). He has served as Parliamentarian, Treasurer, and President of CCML; Recording Secretary for MCMLA; Treasurer (currently) for HLS; and on numerous committees for these three, most often as Chair. Please see attached resume.

**Roberta Depp, Director, Berthoud Public Library**

Roberta has served as Director since 1995. Previously she served as director of Welles-Turner Memorial Library in Glastonbury, CT and Eagle County Public Library in Eagle, CO. Roberta was also assistant editor of Libraries Unlimited (annual review of reference books) in Littleton, CO. She has a MA in Librarianship from the University of Denver and has completed additional graduate studies at the State University of New York. Please see attached resume.

**Ed Volz, Director, Estes Park Public Library**
Ed has a BA (1971), MLS (1974), and more than 30 years library experience including 20 years at the Denver Public Library. Ed is assisted by Steve Mitchell, Head of Reference, who has a BA (1979) and 17 years library experience; and Carolyn Harris, Reference Assistant, who has a BA (1968), MA (1970), and PhD (1972).

**Marilyn Colter, Director, Red Feather Lakes Mountain Library District**

Marilyn has served as director of the Red Feather Lakes Community Library since 1995. She has a BA in technical journalism from Colorado State University, completed all coursework towards a MFA in creative writing, and for nearly twenty years has worked as a freelance writer, university instructor, public relations consultant, editor, and publisher. Please see attached resume.

**Diane Montgomery, Director, Wellington Public Library**

Diane has served as Director since 1993 and was Assistant Director from 1989 to 1993. She attended University of Southern Colorado and Colorado State University where she studied English and Education. Diane led grant writing/fund raising activities for two library building expansions (1992- $100,000; 2002- $200,000) and served as project director of the multi-agency Wellington Youth Violence Prevention Program (1997-8: $20,000 grant).

**Hours Worked**

During the 18-month grant period, the Poudre Valley Health System medical librarian will devote 115 total hours toward the project (70 hours in-kind contribution, 45 hours supported through the NN/LM grant). This is 3.8 percent of his total hours worked during the grant period (18-month FTE = 3,000 hours). Each of the four participating public librarians will devote 100 hours of staff time toward the project (all time is an in-kind contribution). For each librarian this is 3 percent of total hours worked (18-month FTE = 3,000 hours).

**10. Facilities/Institutional Support**

The Poudre Valley Health System Medical Library primarily serves approximately 1,500 physicians, nurses, and other care providers in the Fort Collins area with reference service, PubMed and other database searches, interlibrary loan through DOCLINE and OCLC, and bibliographic instruction. Physical resources include 300 professional journal and popular health magazine titles, more than 2,000 medical and nursing textbooks, and about 250 videotapes. The Library is open to the public during regular business hours and the same services (including Loansome Doc) are provided on a cost-recovery basis. Monthly classes are offered on PubMed and Internet basics for health professionals.

Poudre Valley Health System is currently completing construction of The Legacy Center, which will provide newly renovated space for the Medical Library, Learning Center, and Educational Media Services. This state-of-the-art facility at Poudre Valley Hospital will
include four meeting rooms, offices for staff, a computer laboratory, expanded shelf space for the Library’s collection of books and journals, quiet reading spaces, and a satellite downlink/video viewing room. The Legacy Center is conveniently located adjacent to elevators to the Emergency Department, Operating Rooms, Pediatric Care Center, and Birthing Center, providing physicians, patients, and consumers with easy access to medical and health information.

The Poudre Valley Health System medical librarian will assist local community library staff in designing and analyzing patron needs assessment surveys and developing localized outreach and education plans, assist in the development of the publicity and promotion campaign, conduct all training and education sessions for community library staff and volunteers, and facilitate the “kick-off” event in each local community. The medical librarian will also provide enhanced research support and assistance free-of-charge to participating community librarians during the project period and beyond.

Poudre Valley Health System’s nurse researcher will provide as in-kind donation limited technical assistance and consultation in the design and analysis of the evaluation process. The Poudre Valley Hospital Foundation will provide as an in-kind donation the staff time and resources necessary to prepare quarterly grant and evaluation reports for NN/LM.

This project will build on the following initiatives underway at the participating community libraries:

**Red Feather Lakes Community Library**
Since 1995, the Director and Library Board have actively sought to increase access to the Internet and digital materials. Community members and businesses have donated four computers to the library, and the library has purchased educational software for the children’s computers that helps build reading, match, and geography skills. For the past five years, the Library has also offered ongoing beginning computer training classes, Internet searching classes, and other general computer classes for patrons. The Library is presently building a web site to increase patrons’ access to library information, and by June 2003, to the library’s catalog.

In May 2001 the Library was awarded a Bill and Melinda Gates Foundation grant (value $7,500) for a Grants Library computer and for network wiring to provide fast and secure Internet access as well as a sophisticated network for library computers. In 2002, to help meet growing demand, the Library purchased another Gates Library computer at a reduced price and began providing DSL access through CenturyTel (local telephone service provider). In an additional grant worth $7,000 the Library has recently been included as a partner in the “Automation System Consortia in Colorado” project in cooperation with the High Plains Regional Library Service System. The project will implement a sophisticated Internet-based library automation system providing online catalog access for patrons as well as automation services for cataloging and circulation processes.

**Wellington Public Library**
In May 2001, the Library was awarded an $8,080 grant from the Bill and Melinda Gates' Foundation for two public access computer systems and associated equipment. Another grant project the Library is participating in is the "Automation System Consortia in Colorado" (ASCC). This grant is in cooperation with the High Plains Regional Library Service System and has a value of $7,000. The project involves implementing a sophisticated, Internet-based (via application service provider technology) library automation system. The system provides patron catalog access and staff database for checking materials in and out as well as cataloging of materials. A previous (1998) $11,500 grant provided by the Library Services and Technology Act has also supported this project.

Please see attached letters of commitment from participating institutions.

11. Continuation of Activities After Project Completion

This project is uniquely attractive in that all project services will be institutionalized by partner libraries and will continue in all participating communities after the grant period has ended. Rather than starting a new program with additional staff that would need ongoing funding, the project strengthens the infrastructure of underserved public libraries by providing training and resources for existing public library staff to continue providing health information services, patron training and education, and enhanced access to health information resources. The project also strengthens the relationship between Poudre Valley Health System’s Medical Library and local public libraries.

After the grant period, trained local community librarians and volunteers at Berthoud Public Library, Estes Park Public Library, Red Feather Lakes Community Library, Wellington Public Library, and member libraries of the High Plains Regional Library Services System will continue to offer all health information services for patrons, consumers, and residents. Educational classes for these groups will continue to be offered by each local library at least four to six times per year based on local interest.

Red Feather Lakes Community Library will continue to maintain the health information web page as part of its web site; Berthoud Public Library, Estes Park Public Library, and Wellington Public Library will continue to maintain special links to this page from their web sites.

With the support and assistance of Poudre Valley Health System’s Medical Library, and utilizing the promotional materials developed as a part of the this project, each participating local community library will oversee an annual publicity campaign in their respective community to coincide with National Medical Library month.

Poudre Valley Health System’s Medical Library will continue to offer enhanced research assistance and consultation for community library staff and volunteers.
An article about the project will be prepared and submitted to the NN/LM-MR's Plains to Peaks Post newsletter and to other local and library periodicals.

12. **Other NLM or NN/LM Support**

Poudre Valley Health System and all collaborating partners do not have any grants, contracts, or competitive purchase orders with the National Library of Medicine or the NN/LM that are currently active, pending review or funding, or are being prepared for submission; none have been previously funded by these entities.