



West Virginia University
Robert C. Byrd Health Sciences Center

**National Center of Excellence
In Women's Health**

Quarterly Progress Report
January 1, 2007- March 31, 2007

National Centers of Excellence in Women's Health
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West Virginia University Robert C. Byrd Health Sciences Center
National Center of Excellence in Women's Health
March 31, 2007

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Executive Summary

West Virginia University Robert C. Byrd Health Sciences Center has just completed the second quarter of year three as a National Center of Excellence in Women's Health. Institutional commitment to our National Center of Excellence program is strong as demonstrated through financial support and the contributed efforts of a large cohort of faculty and staff members from the Health Sciences and the University at large.

The Advisory Board of the CoEWH, lead by the CoEWH Executive board hosted a Making "It" Happen for Women's Health in West Virginia", Brain Trust Advisory Board Seminar. Members of the Advisory Board and other interested parties were invited to this one day seminar. The Keynote speaker was Margaret Moore from WellCoaches, Wellesley Massachusetts. Margaret is the founder and CEO of Wellcoaches Corporation (strategic partner of the American College of Sports Medicine) which is building the new profession of wellness coaching. Wellness coaches energize and support people to master health and well-being.¹

The Advisory Board met the following day to discuss next steps with the Women on Wellness Retreat, location(s) and project dates as well as the inclusion of coaching into the Women on Wellness Retreat program.

- Ann Dacey, Special Projects Coordinator, CoEWH and Co-Director, WV Perinatal Wellness Study was asked to Co-Direct the next phase of the study.³ The goals of the Perinatal Study 2007 are as follows:
 - Develop a statewide perinatal system
 - Increase the number of obstetrical providers.
 - Encourage oral health care in pregnancy.
 - Seek alternatives to costly medical procedures.
 - Develop a standard approach to identify and treat drug-addicted pregnant mothers
 - Encourage worksite wellness.
 - Support and promote breastfeeding.

The LCME Survey Team was in Morgantown in February. The LCME Survey Team highlighted the following: growth of the institution and infrastructure; a dynamic and collaborative leadership aimed at developing excellence and national recognition; leading-edge educational technology and strong IT infrastructure; a culture of continuous educational improvement and national award winning community service initiatives.

The accomplishments of the Center of Excellence during this quarter as a National CoEWH have been significant. Our clinic, under the direction of Drs. Vicki Baker, Laura Davisson, MaryAnn Long and Claudette Brooks, continues to work toward improving the patient-centered environment, and a provision of care to women with an outcome of an improved process of care. During this the last quarter of the year we welcomed Dr. Geetha Kamath to our provider team. We have worked with the clinic managers and our School of Nursing this quarter to plan for the addition of two Nurse Practitioner to our provider list in the clinic. Our clinic leadership participated the delivery of lectures in our Women on Wellness lectures series.

Dr. Davisson, Co-Director of the CCC, back from maternity leave this quarter, completed the development and implementation of an OnLine Women's Health Curriculum during this quarter. The curriculum is currently offered to residents. See Clinical Care session for detailed update.

Our patients are provided with a comfortable, friendly environment, state-of-the-art equipment, conveniently located subspecialty clinics as well as a wide variety of reference material and support services. The number of patients we see continues to increase as our clinic becomes known in the community and across the state. Our CoEWH Stroke Clinic continues to increase its patient base. We expect our third subspecialty clinic to open in the future. It will be a CoEWH Urology Clinic. This clinic will serve for the diagnosis and treatment of various urogynecologic conditions that affect many women,

such as stress incontinence, etc. We are in the process of discussing another subspecialty in women's sports health with the department of orthopedics. We are in the strategic planning process for a satellite Clinic on our Eastern Division Campus.

The Outreach Component, under the direction of Dr. Barbara Howe and Dr. Elaine Bowen, continues to expand its reach across the state by expanding our outreach and Community Advisory teams in each of the 55 counties in West Virginia. These representatives then participate and/or provide material with a focus on Women's Health in the rural communities across West Virginia.

The CoEWH entered into a memorandum of understanding with Appalachia Community Cancer Network (ACCN) of the Mary Babb Randolph Cancer Center at West Virginia University. The purpose of this collaboration is to strengthen the collaboration between these two organizations. By working together these organizations' programs and services can more effectively reduce the excess cancer burden prevalent in rural Appalachian communities in West Virginia.

The CoEWH formed a partnership with "Women In Search of Empowerment". (W.I.S.E) W.I.S.E is located in Bluefield West Virginia in Mercer County. We are working on two collaborations at this time, Women on Wellness is one of the immediate events we will deliver together.

The Leadership Component, under the direction of Dr. Maria Kolar, has been active in many of the activities of the CoEWH such as the WOW and Changing Faces of Medicine and the Women on Wellness Lecture Series. Dr. Kolar and her team has arranged for all faculty development lectures to be filmed and available on line. The next phase of the salary equity study commenced during this quarter.

The Education Component, under the Direction of Dr. Nan Leslie, Dr. Anne Cather and Dr. Susan McCrone, contributed to new educational programs/classes in health care with an emphasis on women's health. The Women on Wellness Lecture series expanded to include a faculty and staff delivery format. The Education and Leadership of the Health Sciences provides many opportunities for faculty and Staff Development. See attached listing of indicative of some opportunities.⁴

The research component, under the direction of Dr. Linda Vona Davis and Dr. Michael Vernon has worked to expand its base, and identify new and current research across the West Virginia University Campus with an emphasis on Women's Health. Dr. Vona Davis developed a seminar "Creating a Networking of WV Women in Science and Health.

The Executive Team, Dr. Barbara Ducatman, Director WVU CoEWH, Dr. Ann Chester, Deputy Director and Betty Critch Parsons, MBA, Project Director continue to meet weekly. The Executive Team continues to meet and build the infrastructure of the Brain Trust Advisory Group. This group meets quarterly. The CoEWH Directors meet monthly and the CoEWH hosts a University-wide informational session bi-monthly. The working groups of the Outreach Component meet regularly through the year as did the Research, Education and Leadership Component committees.

Rashida A. Khakoo, M.D., professor and chief of infectious diseases at West Virginia University's School of Medicine was recently honored with the Living the Dream Sharing of Self Award from The Martin Luther King, Jr., West Virginia Holiday Commission, West Virginia Division of Culture and History.

Five nominees are chosen annually by the Martin Luther King, Jr. West Virginia Holiday Commission for displaying excellence in the following categories: advocate of peace, sharing of self (amongst the public or private sector), human and civil rights, scholarship (substantial contributions to education), and the Governor's Living the Dream Award, which is given to a person who demonstrates all of the previous characteristics combined. Recipients of the Living the Dream awards were honored at a luncheon Saturday, January, 13, 2007, in the Great Hall of the West Virginia Cultural Center.

Khakoo also received the WVU Women in Science and Health Excellence Award in November 2006. The award recognizes the career achievements of women in the Health Sciences Center who demonstrate excellence in leadership, mentorship, and education or research.

All the component directors of the CoEWH have worked together to deliver screening opportunities, participated in exhibit opportunities and delivered CoEWH-sponsored lectures.

We continue to expand media use for women's health messages such as

- Doctors on Call
- MD-TV
- Weekly radio show on WAJR-FM
- WDTV Channel 12 – Women's Health Program
- Public presentations
- CoEWH web site
- HSC marketing office
- 1-800-4CANCER hotline
- Drug Information Center

We are pleased to submit the following detailed quarterly report on the activities on West Virginia University Robert C. Byrd Health Sciences National Center of Excellence in Women's Health. We believe our second quarter of 2006-07 demonstrates progress toward our mission to improve the health of West Virginia women across their life span. We are working hard to identify, participate and deliver activities for women's health across the State of West Virginia. We look forward to your comments.

Clinical Care Services Component

Clinic Highlights

West Virginia University National Center of Excellence in Women's Health is conveniently located in on the fourth floor of the Physician's Office Center. It is a patient friendly place where women of all ages receive clinical care and up-to-date, easy to understand educational materials. The Clinic integrates multi-disciplinary research and training activities with clinical services in women's health, spanning both academic and clinical department.

The clinic operates Monday through Friday from 7:30am to 5:00 pm. Physicians are available on-call 24 hours per day, 7 days a week. Urgent patient issues are addressed within the same day by one of the physicians or by the licensed nurse practitioner after a registered nurse triages patient symptoms via The WVU Health Line. Clinical practice standards are frequently reviewed to ensure adherence to internal guidelines or accepted national guidelines. Quality monitoring and patient satisfaction are foremost concerns of the practice. A computerized medical record provides documentation of patient encounters and information to assist in collecting practice data.

The Internal Medicine and Family Medicine practices provide comprehensive primary care to patients. The physicians stress preventive medicine and risk assessment in the care of all their patients. The stroke clinic works with women who are high risk for stroke and with those who have recently had a stroke to aid in the prevention of future problems. It will address risk factors for stroke such as hypertension.

The gynecology practice provides general and specialty care, and minor, routine, ambulatory procedures for patients. The scope of care is appropriate to ambulatory practice standards. The board certified gynecologists have expertise in benign gynecologic surgery, management of abnormal Pap smears, the evaluation and treatment of abnormal uterine bleeding, treatment of uterine fibroids and ovarian cysts, contraceptive techniques, and menopause management. In addition, subspecialty expertise is provided for evaluation and management of urinary incontinence and pelvic floor support defects (uterine/vaginal prolapse, cystocele, and rectocele). Urodynamic testing is available.

The services defined as “one-stop shopping” includes primary care, gynecology, mental health, nutrition, and imaging including mammography, bone density, and ultrasound, and are available within the practice or in close geographic proximity in the same building.

During the second quarter, the Health Sciences Center institutional commitment has provided public relations and marketing support. This group has provided press and media coverage. We know our Women Ad, production of a television commercial that is shown six times daily on TNT, Lifetime, and Bravo, as well as during the evening news on two local television stations. Women’s Health was once again the subject of the Dr. Bob television show featuring CoEWH Dr. Davisson and Dr. Cather. Dr. Davisson has been asked to present a Women’s Health Sciences Grand Round in Early April. All components of the CoEWH worked together to deliver the Women on Wellness Lecture Series. This innovative health awareness program has a three tier structure: Students, faculty and staff and community. The lecture series will be delivered to communities across the state commencing sometime during the 3rd quarter.

An accounting intern was hired to work on an analysis of the financial reports during this second quarter, for the clinic to date. We will continue to work on, financial analysis of the progress made in marketing initiatives on behalf of the CoEWH and CCC will be conducted. This will be reflected in increases in new patient visits and billable encounters. We are currently discussing with the hospital system, the expansion of clinical care sites to the eastern panhandle of West Virginia, where the Health Sciences Center has a clinical campus (City Hospital in Martinsburg, WV), and Charleston, WV, at the Charleston Area Medical Center, and possibly at Cheat Lake Physicians office in Morgantown and in Clarksburg, WV. We look to summer 2007 to have a Center of Excellence in Women’s Health on our Martinsburg Campus.

Dr. Davisson, Co-Director of the CCC, completed the development and implementation of an Online Women’s Health Curriculum during this quarter. The curriculum is currently offered to residents. Dr. Davisson presented the curriculum to the CoEWH Board and to an Associate Dean of the Medical School.

The Clinic will expand its patient care to include two Nurse Practitioners. The new Health Care Providers plan to start seeing patients in late May 2007.

Elizabeth DuRant, MSN, WHNP, CNM, Clinical Instructor, SON, CoEWH Clinical Care Team and soon to be Health Care Provider in the CoEWH Clinic published “Polycystic Ovary Syndrome: A Review of Current Knowledge in the Journal for Nurse Practitioners, March 2007.²

For the second quarter of fiscal year 2006-07 the CoEWH had approximately 3167 billable hours excluding well OB visits.

a. Physically Identifiable Clinical Care Center

The CCC utilizes clinic space on the fourth floor of the Physicians Office Center, consisting of multiple (13) consultation rooms and a waiting area, and a resource area.

The CoEWH Clinical Care space is wheelchair accessible and has Americans with Disabilities Act compliant examination rooms and exam tables.

Executive Leadership engaged a local WV artist to chair a committee to develop an area in the CoEWH clinic waiting area to celebrate The National Center of Excellence in Women’s Health, “Body, Mind and Soul” of WV Female Artists. This committee was charged with identifying and exhibiting the work of a Female WV artist every quarter.

The Marketing Department, as a part of a strategic marketing plan, designed and a billboard that advertises the existence of a “Center of Excellence in Women’s Health,” as well as airing a TV advertisement. The billboard won a national award. Though the billboard has been replaced, it now boasts our nurses, with the same format as our CoEWH. Thus our billboard created a branding for our HSC billboards of excellence.

b. Patient Centeredness - Integration of Care

Dr. Vicki Baker, Clinic Director and Clinic Co Directors, Dr. Davisson (Internal Medicine), and Dr. Long (Family Practice) work closely with Dr. Claudette Brooks, Director, CoEWH Stroke Clinic, our first dedicated specialty clinic.

The Clinic Component Working Team has changed its meeting time to the second and fourth Mondays of the month. The team continues to include the manager of the Physician Office Center Phone Center, as well as Health Care Providers from all the schools, including specialty areas.

The inclusion of the Call Center will help us identify areas of improvement that are required at the inception of the CoEWH visit (initial impression by the patient). By including the Call Center in the clinic care working team, we have expressed the value the call center adds to the CoEWH. As a result the Call Center has changed the way the phone is answered, thus improving a point of origin. By attending these meetings the Call Center is able to hear firsthand from a health care provider problems identified with patients initial impression of the CoEWH that may be call center oriented. The issue is then addressed and we become more patient centered from the point of origin. Dr. Michael Vernon works with this group directly to improve the customer service at our point of contact via phone.

Working towards providing a seamless one-stop shop concept of clinical care, the clinic provides the following:

- On-site social worker, whose office is located off the waiting area,
- Faculty, residents, and staff can refer patients to her in person, through the nursing staff, or referral

Services that are available include intervention for patients in the clinic for the following:

- Crisis management for difficult news, re: pregnancy/grief/shock
- Referrals and information for pregnancy terminations
- Referrals for substance abuse treatment
- Referrals of spousal abuse and domestic violence
- Referrals and information for adoption planning – relinquishment and adoptions
- Coordination for psych evaluations
- Referrals to Chestnut Ridge for medications, evaluations or hospitalizations
- Referrals and information on paternity testing/custody questions
- Referrals of home health
- Referral for Ronald McDonald/Family House
- Ongoing counseling can be scheduled for the following:
 - Depression and Anxiety disorders, including postpartum depression
 - Stress Management
 - Adjustment to pregnancy/parenthood
 - Relationship changes: marriage/divorce/family dynamics
 - Life changes: relocation/job changes/child birth
 - Loss/grief work: missed AB's /terminations/IUFD/stillborns/BUFAs/infertility
 - Women's Health Issues
 - Domestic violence/rape/abuse issues
 - On-site financial counselor
 - Managed care specialty for authorization/referrals
 - Patient information literature available and on display
 - Patient resources center, see catalog of materials (see appendix)
 - Outpatient laboratory, EKG and ultrasound conveniently located (same floor three doors down the hall)
 - Outpatient pharmacy in the same building (located on the first floor)
 - Ultrasound clinic conveniently located on same floor

- Pre-admission testing unit conveniently located on the same floor
- Outpatient radiology (x-ray) located in the building
- Direct referral to the WV Breast and Cervical Cancer Program
- Direct referral to the Betty Puskar Breast Care Center
- CoEWH Stroke Clinic

We are working with the Cancer Center and the Betty Puskar Breast Care Center to identify/develop continue a seamless relationship

The clinical care working group has completed the process of identifying a referral network/system/policy, update the clinic intake form, develop and staff a dedicated triage position. We are now in pursuing additional funding.

c. Evidence Based and Innovative Care

The interdisciplinary Clinical Care Working Group meets monthly to review clinical practices as well as patient care processes to ensure high quality, innovative and evidence-based practices.

d. Effective Information Management

A new Women's Health History/Clinical Intake Form has been completed and submitted. West Virginia University Hospitals and University Health Associates have purchased the top of the line electronic medical record keeping system, EPIC. This \$90 million investment is tied to an initiative to "change the way we do business", improving quality and patient satisfaction. As an example, patients will have the ability to access their own medical records via an internet portal.

We have developed a complete listing of all reference materials in the CoEWH. This list will be a work in progress in regard to improving upon the multi-disciplinary concept of materials. We continue to work on a new process that was developed to accommodate the Health Care providers from Family Medicine and Internal Medicine in regard to referrals, location of patient charts, patient lab results and process when Health Care provider is not in the clinic.

e. Timely and accessible clinical services

See Clinical service a. regarding easy access to patients. The CoE clinic provides classes during the week and on weekends that cover, child birthing, breastfeeding, sibling classes and new parenting.

f. Effective management of CCC Human Resources

Drs Davisson, Long and Brooks continue to work with the Clinical Care Working group to develop effective management strategies. Dr. Davisson is back from maternity leave this quarter. We plan to bring on two new providers. These providers will be Nurse Practitioners.

g. Number of new patients and minority and underserved patients

We are working on establishing best identification procedures for our patients. Our current registration does not allow us to segregate patients by race or disability; however, we estimate that approximately 5 % of the patients served are minority patients, as we have a larger minority population in Morgantown and in our clinic population than West Virginia at large. Approximately 44% of our total patient population is economically disadvantaged (i.e. Medicaid or uninsured). These visit counts exclude repeat OB visits.

h. Participation in CoE Clinical Care Center Directors' Working Group.

Our CoE will participate in all future CCC Directors' Working Group activities.

i. Institutional Commitment:

In addition to the commitments from the Departments of Internal Medicine and Family Medicine for faculty time and by the Department of Obstetrics and Gynecology for space and staff support. Robert D'Alessandri shared the Robert C. Byrd Health Sciences Center's commitment; Vice President for Health Sciences at the beginning of our site visits presentation. We are currently negotiating with the hospital and hospital system (Ruby Memorial Hospital) for additional financial support for the CoE.

j. Integration:

Medical students and residents see patients at the CCC as part of their professional training. With the addition of Dr. Baker as CCC director, we anticipate adding clinical trials to the population of the CCC. Overview:

Understand the multi-disciplinary approach in patient care

Understand the new concepts in the field of genetics, perinatology and neonatology as applied to obstetrics

Be informed in the ultrasound evaluation of patients with or without pregnancy complications

Evaluation

The evaluation material developed in 2005 and updated in 2006 is continuously monitored and used as guidance.

CoEWH Stroke Prevention Clinic

Highlights

The West Virginia University Robert C. Byrd Health Sciences National Center of Excellence in Women's Health Stroke Prevention, under the direction of Dr. Claudette Brooks is a subspecialty clinic located on the 3rd floor of the West Virginia Eye Institute in the Neurology-Neurosurgery suite. Dr. Claudette E. Brooks serves as director of the WVU Neurovascular Lab and the Women's Stroke Clinic, which is part of the WVU Center of Excellence in Women's Health. She is a member of the WVU Stroke Center Team, the Stroke Clinic, and the Stroke Research Clinic. Dr. Brooks did advanced training in cerebrovascular disease at the Mayo Clinic in Rochester, MN. Dr. Brooks is a neurologist with special training in stroke. She has expertise in primary and secondary stroke prevention.

The clinic is physically located one floor below the CoEWH clinic. The patient never needs to leave the building as all buildings are connected by walkways.

Dr. Claudette Brooks, Director of West Virginia University Health Sciences National Center of Excellence in Women's Health presented an abstract on Pharmacist intervention in Antithrombotic Use at the Joint World Stroke Congress in Cape Town, So. Africa, October 2006. Dr. Brooks presented a paper on Women and Cardiovascular Health education at Women of Appalachia Conference, October 2006.

Purpose of the CoEWH Stroke Prevention clinic:

To evaluate patients and educate them in primary and secondary prevention. Assist and diagnose RF for stroke, aid in treatment Coordinate treatment and service with neurosurgery, neuroradiology, nutrition, rehab and social services, pharmacy (anticoagulant), monitoring and treating risk factors.

a. Evidence Based and Innovative Care

The interdisciplinary Clinical Care Working Group meets monthly to review clinical practices as well as patient care processes to ensure high quality, innovative and evidence-based practices.

b. Effective Information Management

The Women's Health History/Clinical Intake Form is under review, as a part of a continual improvement effort. The committee is reviewing direction for ROS billing compatibility and to established placement location in each chart.

We have developed a complete listing of all reference materials in the CoEWH. This list will be a work in progress in regard to improving upon the multi-disciplinary concept of materials.

We continue to work on a new process that was developed to accommodate the HC providers from Family Medicine and Internal Medicine in regard to referrals, location of patient charts, patient lab results and process when HC provider is not in the clinic.

The institution is in the process of integrating an EPIC software program through out the HSC.

c. Timely and accessible clinical services

See Clinical service regarding easy access to patients. The CoE clinic provides classes during the week and on weekends that cover child birthing, breastfeeding, sibling classes and new parenting.

d. Effective management of CCC Human Resources

Dr. Brooks continues to work with the Clinical Care Working group to develop effective management strategies.

e. Number of new patients and minority and underserved patients

We are working on establishing best identification procedures for our patients. Our current registration does not allow us to segregate patients by race or disability; however, we estimate that approximately 5% of the patients served are minority patients, as we have a larger minority population in Morgantown and in our clinic population than West Virginia at large. Approximately 44% of our total patient population is economically disadvantaged (i.e., Medicaid or uninsured). These visit counts exclude repeat OB visits.

f. Participation in CoE Clinical Care Center Directors' Working Group

Our CoE will participate in all future CCC Directors' Working Group activities.

g. Institutional commitment

The Departments of Internal Medicine and Family Medicine contributed faculty time and the Department of Obstetrics and Gynecology space and staff support. Dr. Robert D'Alessandri championed our Senate resolution and participated in the presentations of the OWH Site visit along with the Deans of the Schools of Nursing, Dentistry and Pharmacy. We are currently negotiating with the hospital and hospital system (Ruby Memorial Hospital) for additional financial support for the CoE. The department of Neurology has dedicated space to the Center of Excellence in Women's Stoke specialty clinic.

h. Integration

Medical students and residents see patients at the CCC as part of their professional training as does the School of Pharmacy. Dr Claudette Brooks, Director of the CCC Stroke Clinic, is working towards adding clinical trials and studies to the population of the CCC.

Evaluation

The evaluation material developed in 2005 and updated in 2006 is continuously monitored and used as guidance.

Research Component

Research Priorities

- Promote and advance research in women's health through public seminars.
- Communicate state-of-the-art advances in women's health and gender biology through active research and publishing.
- Apply for funding to support a Women's Health research program.
- Expand participation in the Women's Health Research Community.

The mission of the Research Committee of the West Virginia University Health Sciences Center CoEWH is in the promotion of both investigations in the field of women's health and gender-specific research as well as the promotion of faculty investigators who will provide expertise and leadership to carry out this mission. To this end we will begin to work with new residents to encourage that they select gender-specific research for the focus of projects. We will encourage collaboration among researchers and disseminate new research findings across the West Virginia University campus (es). West Virginia University's involvement in basic, clinical and applied research applicable to women's health is growing. Research in Women's Health fits nicely into our strategic research plan which targets research into cancer, including breast, cervical, and lung cancer (which is major cancer in WV women), neurosciences including dementia and stroke, cardiovascular disease and metabolism, obesity, and diabetes, all major areas of concern to WV women. The Clinical Director, Dr. Vicki Baker, has extensive experience in clinical trials and will be instrumental in starting clinical trials in our CCC. In addition, construction has begun on a new Biomedical Research Building. This will attract more research, including research into women's health.

Research Priority (January, 2007)

Promote and advance research in women's health. The Research Committee will develop and deliver women's health research seminars and conferences to educate members of the WVU community regarding new advances in the field of women's health in multiple disciplines, as well as to promote networking between senior and young investigators.

Action (new as of April, 2007)

On **March 22, 2007**, the Mary Babb Randolph Cancer and the Department of Obstetrics and Gynecology sponsored a talk entitled "Regulation of estrogen receptor signaling in breast cancer through receptor and coregulator phosphorylation" by **Brian Rowen, Ph.D.**, Tulane University School of Medicine. Dr. Rowan's research focused on the mechanisms involved in estrogen receptor biology. The seminar audience was primarily junior and senior researchers and their graduate students. Dr Rowan met individually with members of the CoEWH Research Committee who are interested in breast cancer receptor biology.

On **April 12, 2007**, the Mary Babb Randolph Cancer and the Department of Obstetrics and Gynecology sponsored a talk entitled "Development of BCG-based Cancer Vaccine for Breast Cancer" by **Maureen Chung, M.D., Ph.D.**, Surgical Oncologist and Associate Professor of Surgery, Rhode Island Hospital. Dr. Chung's research focused on an experimental animal model of breast cancer and the efficacy of a new vaccine. The seminar audience was primarily junior and senior researchers and their graduate students. Dr Chung met individually with members of the CoEWH Research Committee who are interested in breast cancer research.

Research Priority (January, 2007)

The Center of Excellence will communicate state-of-the-art advances in women's health and gender biology.

Action (new as of April, 2007)

Circulated a newsletter from the Society for Women's Health Research Online Community (SWHR). This newsletter is circulated to all CoEWH members and to the Women in Science and Health Committee. As a member of the SWHR online community, we receive biweekly e-newsletters containing action alerts and the most up-to-date information on gender biology research and news. The newsletter contains links to

health information, research reports and gender biology granting agencies. There is also a place to sign up to participate in the latest clinical trials

Research Priority (January, 2007)

The Center of Excellence will communicate state-of-the-art advances in women's health and gender biology by WVU investigators.

Action (new as of April, 2007)

New research published on gender-specific biology by members of the CoEWH Research Committee:

[Guo L, Abraham J, Flynn DC, Castranova V, Shi X, Qian Y.](#)

Individualized survival and treatment response predictions for breast cancers using phospho-EGFR, phospho-ER, phospho-HER2/neu, phospho-IGF-IR/In, phospho-MAPK, and phospho-p70S6K proteins. Int J Biol Markers. 2007 Jan-Mar;22(1):1-11.

[Ma Y, Qian Y, Wei L, Abraham J, Shi X, Castranova V, Harner EJ, Flynn DC, Guo L.](#)

Population-Based Molecular Prognosis of Breast Cancer by Transcriptional Profiling. Clin Cancer Res. 2007 Apr 1;13(7):2014-2022.

New research accepted for scientific presentation on the national level on gender-specific biology by members of the CoEWH Research Committee:

[L Davission, M Warden, S Manivannan, MM Kolar, C Kincaid, S Bashir, R Layne.](#)

West Diagnosing Osteoporosis: Factors Associated With Bone Mineral Density Testing Of Older Women. West Virginia University and Louis A Johnson Department of Veterans Affairs Medical Center, Clarksburg. This work has been accepted as a poster presentation at the Society for General Internal Medicine Annual Meeting April 25, 2007.

Research Priority (January, 2007)

A priority of the Research Committee is securing robust and increased financial support to fund the Women's Health research program.

Action (new as of April, 2007)

Grant submitted to Department of Defense

Investigators: L Vona-Davis, PhD, Marissa Howard-McNatt MD, Barbara Ducatman MD, Department of Surgery and Pathology

BREAST CANCER, ADIPOKINES, and THE METABOLIC SYNDROME

There is an exciting opportunity to study some of the more important clinico-pathological features of breast cancer in an unusual setting. It will be done to provide critical preliminary data in support of a grant application to NCI for a project concerned with the metabolic syndrome and adipokines, and breast cancer risk and progression in our Appalachian patient population.

Research Priority (January, 2007)

The Research Committee will continue its efforts to expand participation in the Women's Health Research Community.

Action (new as of April, 2007)

The Research Committee will sponsor an event May 14, 2007 that will showcase gender biology research at West Virginia University. Talks and poster presentations by researchers across disciplines are planned. In addition, breakout sessions for specific areas of research will facilitate cross-fertilization of ideas and networking for future collaborations.

Overall WV CoEWH Research Goals

West Virginia University Robert C. Byrd Health Sciences Center
National Center of Excellence in Women's Health

March 31, 2007

Develop a comprehensive multi-disciplinary research agenda that includes: stimulating new basic and applied gender specific research in WV, fostering collaborations across academic departments, disseminating gender specific research findings amongst WV researchers and encouraging women to participate in clinical research trials through the WV CoEWH Clinical Care Center.

The research component of the WVU CoEWH program has formed a WVU CoEWH research committee that plans on instituting six steps to meet its overall research goal:

- Document all current campus-wide gender-specific research.
- Develop a WVU database of women's health researchers.
- Promote interest in gender-specific research through seminars and scientific sessions.
- Stimulate gender specific research unique to WV.
- Encourage collaborative projects.
- Coordinate clinic patients with CoEWH research projects.

Develop a WVU CoEWH Research Committee

To meet the overall goal for research, a WVU CoEWH Research Committee, has been established. The members of the WVU CoEWH Research Committee are composed of scientists that represent the major WVU Colleges associated with gender-specific research. The CoEWH research committee includes members from the following WVU Colleges:

- Medicine
- Dept of Ob/Gyn
- Dept of Physiology
- Dept of Pathology
- Dept of Community Medicine
- Dept of Pediatrics
- Dept of Psychiatry
- Dept of Internal Medicine
- Center on Aging
- Cancer Center
- Nursing
- Dentistry
- Agriculture
- Animal Science
- Dairy Science
- Arts and Sciences
- Biology

WVU has a large resident population of researchers already involved in gender-specific research. For the first step for increasing the research component of the CoEWH, the research committee members are creating a listing of researchers in their colleges and attempting to recruit them to be active participants in the WVU CoEWH.

The research committee members have contacted each WVU researcher to introduce them to the CoEWH. Additionally, the chairperson of the Committee has been and will continue to meet with various departments within these Colleges to introduce the CoEWH and to recruit new members. Each researcher has been invited to be either an active member of the CoEWH research committee (i.e., attend monthly meetings) or become a participating member (i.e., attend the gender-specific seminars).

New research faculties have been recruited to WVU who are embarking on research issues uniquely related to women's health. They are establishing their laboratories in all the newly formed Centers and Institutes at the WVU Health Science Center.

Centers and Institutes at the WVU Health Sciences Center

[Interdisciplinary Center For Neuroscience](#)

[Center for Interdisciplinary Research in Cardiovascular Sciences](#) (CIRCS)

[Sensory Neuroscience Research Center](#)

[Mary Babb Randolph Cancer Center](#) (MBRCC)

[Center for Advanced Imaging](#)

Institutes

[National Institute for Occupational Safety and Health](#) (NIOSH)

[Blanchette Rockefeller Neurosciences Institute](#) (BRNI)

Develop a WVU database of women's health researchers from research centers and institutes

A database of WVU researchers from the Centers and Institutes that are engaged in gender specific research continues to be developed. The database includes the researchers' brief biosketch, their research interests, and a list of recent gender-specific lectures and publications.

Each of the new faculty who is identified as a gender-specific researcher is asked to participate in the CoEWH at some level. This database will function as the source of names, e-mail addresses and publication records of WVU gender-specific researchers for use by the research committee.

Promote interest in gender-specific research through seminars and scientific sessions

The WV CoEWH research team posts events for various audiences throughout the year. Announcements of seminars and scientific programs that are uniquely related to women's health are e-mailed and advertised in order to educate women and men, researchers, doctors, the public, the press, and policy makers about women's health research. These seminars are publicly announced across graduate and clinical departments as well as on the CoEWH web site: www.wvhealthlywomen.org.

In addition, monetary support from the WVU administration has been available to support speakers who work in the field of sex differences research and women's health. The School of Medicine and the Office of Research and Graduate Education provides annually between \$1,000 - \$2,000/year to support seminar speakers. Seminar speakers are asked to meet with CoEWH research members to discuss their research and foster cross-fertilization of ideas.

Stimulate gender specific research unique to WV and encourage collaborative projects

One of the more important contributions that the research component of the CoEWH can bring to WV and to the country is the stimulation of new, novel gender-specific research. The CoEWH is establishing a network of projects that uniquely target diseases specific to rural women in WV such as ovarian and breast cancer in indigent populations of Appalachian women. Clinical and basic science researchers are working together on new research initiatives.

It is anticipated that the above three steps will lay down the foundation for the recruitment of new researchers in the area of women's health. The database from steps 1 and 2 will be used to send e-mails and e-mail internet links to current researchers highlighting monies and collaborations that are available for gender-specific research. The seminar series of step 3 will also serve as an introduction to the WV research community of potential intra- and extramural research opportunities.

Currently, as a result of CoEWH activities, a new clinical and basic science research team has emerged to work on gender-specific research.

New Research Project: “Breast Cancer, Adipokines and the Metabolic Syndrome”

Investigators: Linda Vona-Davis, Ph.D., Surgery; Barbara Ducatman, M.D., Pathology; Marissa Howard-McNatt, M.D., Surgery

Objective: To compare the plasma concentrations and mammary adipose tissue mRNA expression of leptin and adiponectin in breast cancer patients and patients with benign breast disease and to correlate these adipokines with adipose tissue and tumor VEGF expression and angiogenic activity assessed by microvessel counts.

The WV CoEWH is making every effort to stimulate and facilitate this type of research. By combining basic scientists with clinical researchers, the CoEWH will also be stimulating research across departmental lines.

Coordinate clinic patients with CoEWH research projects

The WV CoEWH has established a centralized Clinical Care Center (CCC) in the Physician Office Center adjacent to the WVU Medical Center. The CCC is directly associated with the Department of Obstetrics and Gynecology and has resident medical staff that represent those medical departments required for a “one stop” clinical center for women’s medical help. The director of the WVU CoEWH Research Committee, Dr. Michael Vernon, and the new director of the CCC, Dr. Vicki Baker, are both from the Department of Obstetrics and Gynecology and are therefore in constant communication with each other.

Plan to Meet Standard

The CCC is the ideal locus for the recruitment of patients for gender specific research. Dr. Baker and Dr. Vernon and the executive director of the WV CoEWH have met to establish a working relationship between the research committee and the CCC with the objective of educating the CCC personnel to recruit patients for the CoEWH. As discussed in step 5 above, there are basic scientists that have requested the use of the CCC as a source of patients and in addition to these researchers; two clinical researchers have also requested the use of the CCC for patient recruitment.

Evaluation:

The evaluation material developed in 2005 and updated in 2006 is continuously monitored and used as guidance.

Education Component

Education Highlights

- Inventory of women’s health content in the health professions schools is underway
- Development and implementation of an OnLine Women’s Health Curriculum
 - Curriculum presented to the CoEWH Board, Associate Dean of Medical School and Departmental Chairs
- The Education Component continued delivery of Women on Wellness Lecture Series. The series was delivered to the faculty and staff in a noon time brown bag format as well as an evening session for students.
 - HPV Vaccination
 - Campus Culture and Sexual Assault
 - The Campus Culture on Sexual Assault lecture is enhanced by the presentation of a movie developed and produced at WVU. The Movie “Welcome to the Party.” It is directed by Dr. Jerry McGonigal and Tom Nicholson. The lecture is presented by Deb Strouse, NCC, WVU Sexual Assault Prevention Educator.

The Lecture series is a partnership between the WVU NCoEWH, WVU Student Health and the Morgantown Chamber of Commerce.

The Education Component met on a regular basis throughout the quarter and has made progress in establishing and meeting goals emphasizing women's health education for undergraduate and graduate programs across the health professions. The group has also identified and implemented a program of continuing education for established health professionals utilizing innovative information technology resources.

Jamie Shumway, Associate Dean for Medical Education, and past Co-Director Education Component of the CoEWH, was charged with the responsibility to oversee the preparation of the institution for our LCME accreditation. The Survey Team highlighted the following strengths: growth of the institution and infrastructure; a dynamic and collaborative leadership aimed at developing excellence and national recognition; leading-edge educational technology and strong IT infrastructure; a culture of continuous educational improvement and national award winning community service initiatives, unique rural health programs, the "Dean On Call" program and the new Library/Learning Center

We will partner with the West Virginia Healthy Kids & Family Coalition and West Virginia Community Voices on a project funded by the Claude Worthington Benedum Foundation called the "West Virginia Perinatal Wellness Study" for the next phase. Ann Dacey, Special Projects Coordinator for the CoEWH, will continue to function as the Co-Director of this phase of the study. To review results of the first two phases and see the list of partners across the state please see: http://wvhealthykids.org/p_wellness/pw_home.htm.

Dr. Susan McCrone presented a paper in Ireland entitled "Chronic Obstructive Pulmonary Disease (COPD), Anxiety, and Depression: The State of the Science."

The SON has applied for a grant to fund education about obesity in adolescence.

The Education Component continues the lecture series "Women on Wellness Lecture Series". This quarter the program was expanded to offer sessions at noon for faculty and staff. During the next quarter we expect offer the program to the community in Morgantown and other parts of the state. We are in the scheduling stage.

Dr. Nan Leslie, Co Director of the Education Component submitted an article to a peer review journal in nursing: Samora, J.B., & Leslie, N (2007) The role of advanced practice clinicians in the availability of abortion services in the U.S. JOGNN (accepted for publication)

a. Diverse training/education programs: Provide diverse training/education programs by fostering the development of culturally competent health care professional training/education in women's health.

Appalachian "cultural" competence opportunities are provided in their required WVU Rural Health Partnerships program (RHEP) (See prior reports for definition of RHEP program) rotations across all of the health professions. Status: ongoing. WVU VP of Rural Health and past President of NRHA received the NRHA Presidents award for Lifetime achievement.

The professional education-working group has identified areas within the health professions that can work together to focus on the cultural differences of the diverse populations of women in the state. Experiences in "cultural competence" already exist for health professional students in training during their "clinical" phase of their education in the West Virginia Rural Health Partnerships (RHEP) program. All students in all the health professions are required to participate in community settings for an extended period in their educational programs. Multidisciplinary faculty related to race, ethnicity, and gender offers multidisciplinary topics.

Curricula in Medicine, Nursing, Pharmacy, Dentistry, Allied Health (Occupational Therapy, Physical Therapy), and Social Work are currently being examined, and threads pertaining to women's health are being identified. Plans to rectify weaknesses in curricula will be developed. Curricular examination will proceed on an ongoing basis.

The School of Nursing (SON) and the WVU Women's Studies Dept. offer a "linked course" in which freshman nursing students enroll in an introductory course in the SON and a linked women's studies class. Students fulfill certain assigned activities and readings that fulfill the requirements of each course. They also are required to develop teaching /instruction materials geared to laypersons that focus on health concerns of women.

The Certificate in Women's Health received approval as a track in Public Health Degree Program and is up and operating. One manuscript pertaining to women's health care has been developed by a student and has been submitted for consideration for publication.

Dr. Davisson, Co-Director of the CCC, completed the development and implementation of an Online Women's Health Curriculum during the second quarter. The curriculum is currently offered to residents. Dr. Davisson presented the curriculum to the CoEWH Board at the November meeting.

As of January 2007, six Internal Medicine residents have done the Women's Health rotation. Nine more residents are scheduled to do this rotation through the end of the academic year in June 2007. In order to meet the internal medicine RRC requirements, this rotation is structured to be devoted part-time to women's health training and part-time to geriatrics training. During the women's health component of the rotation, residents are scheduled to work in the COEWH clinic with primary care and obstetrics/gynecology physician preceptors. They are sometimes also scheduled to see patients at Cheat Lake Physicians. This rotation is designed to bring residents and students into the COEWH to learn about the care of women, with special attention to routine gynecology, contraception, menopause, and preventive care.

The didactic component of the rotation is provided in the online learning environment, SOLE. Rotators take a pre-test during the first week of the rotation. They then go through the lecture modules at their own pace throughout the duration of the rotation. During the last week of the rotation, the rotators are expected to take a post-test. Medical knowledge of the following concepts will be expected:

- i. Appropriate preventive healthcare for women
- ii. Management of abnormal pap smears
- iii. Diagnosis and treatment of vaginal infections, including how to prepare and examine wet amounts
- iv. Management of menopausal symptoms
- v. Management of breast complaints, including lumps
- vi. Knowledge of contraception options and ability to provide counseling
- vii. Knowledge of and ability to provide appropriate preconception counseling
- viii. Knowledge of the diagnosis and management of polycystic ovarian syndrome
- ix. Management of menstrual abnormalities
- x. Management of pelvic pain
- xi. Pelvic examination skills
- xii. Knowledge of cardiovascular disease and prevention in women
- xiii. Understanding of recent contributions to women's health literature

b. Develop, enhance or expand existing training/education programs. Expand the core curricula of health professions programs to include all levels across the continuum from undergraduate, graduate, post-graduate, and continuing professional education.

Many opportunities to enhance or expand existing training/education programs were offered during this quarter. See list attached. ² this list is a sample and is not all inclusive.

The Education Component continued delivery of Women on Wellness Lecture Series. The series was delivered to the faculty and staff in a noon time brown bag format as well as an evening session for students.

- o HPV Vaccination

West Virginia University Robert C. Byrd Health Sciences Center
National Center of Excellence in Women's Health

March 31, 2007

- Campus Culture and Sexual Assault
 - The Campus Culture on Sexual Assault lecture is enhanced by the presentation of a movie developed and produced at WVU. The Movie “Welcome to the Party”, directed by Dr. Jerry McGonigal and Tom Nicholson. The lecture is presented by Deb Strouse, NCC, WVU Sexual Assault Prevention Educator.

The lecture presentation and Q&A sessions have been well received by the WV Community. Plans are underway to deliver in the community and expand across the state.

The Film “Welcome to the Party” was critically acclaimed by faculty and students. The film will be shown in the School of Nursing on April 18th, 2007.

The “Honoring Women Healthcare Professionals” a facet of the “Changing the Face of Medicine” exhibit sponsored by the National Libraries of Medicine was on display at Health Sciences in October 18 through December 8, 2006. This innovative, interdisciplinary effort honored women who have made lasting and significant contributions to the Health Care Professions at WVU. It provided an entertaining and enlightening educational opportunity for students, faculty, staff and the public to learn about outstanding women who have made significant contributions to WV.

Events included:

- The keynote speaker was Antonia Novello, 14th Surgeon General of the U. S. Public Health Service.
- An outstanding rural health healthcare provider, Dr. Katrina Poe, MD offered a series of speeches to HSC Medical students, WVU employees and the public, and a classroom didactic experience for nursing students.
- Dr. Poe provided a lecture to the Nursing 110 students on Health and wellness. She captivated the students with her description of growing up in rural Mississippi, choosing a profession, and how she has implemented her dreams as a rural health doctor. Students wrote that it was the best presentation of the whole semester and to please invite her back.
- Dr. Poe delivered a Women’s Studies Residency Lecture: Issues in Rural Health.
 - Dr. Poe’s reach across the Health Sciences and the College of Arts and Sciences demonstrates extent of the intra-disciplinary structure of West Virginia University.
 - Dr. Poe, at the suggestion of WVU HSC CoEWH, will be a keynote at the Rural Women’s Health Conference Omni Shoreham Hotel, Washington DC, August 13 -15, 2007
- Creating a Network of WV Women in Science and Health, seminar lead by CoEWH Research Component Director, Linda Vona-Davis, PhD.
- Local legends celebration of Women in Nursing
- Local Legends celebration of Women in Medicine
- Local Legends celebration of Women in Pharmacy
- Celebration of women in the Dental professions
- A history of West Virginia Women in Medicine
- Prescription for Success: Consumer and Women’s Health information on the internet

We will partner with the West Virginia Healthy Kids & Family Coalition and West Virginia Community Voices on a project funded by the Claude Worthington Benedum Foundation called the “West Virginia Perinatal Wellness Study for the Next Phase. Ann Dacey, Special Projects Coordinator for the CoEWH, will continue to function as the Co-Director of this phase of the study. This study includes a statewide partnership that will serve the entire state. To review results of the first two phases and see the list of partners across the state please see: http://wvhealthykids.org/p_wellness/pw_home.htm -

The Department of Obstetrics and Gynecology has developed a 1-month, 4th-year elective clerkship elective in women’s health. This is in cooperation with CoEWH. It will be on the agenda of the School of Medicine Curriculum Committee shortly. (Under development as scheduled.)

The School of Medicine is in the process of enhancing the third-year Medical Student Medicine Clerkship that will offer students the opportunity to experience a 2-week clinical rotation in women's health in the CoEWH.

The School of Nursing is in the process of planning a rotation in the CoEWH for its Family Nurse Practitioner graduate students who are interested in a focused clinical experience in women's health. (Under development). This should be in place fall 07 the School of Nursing will have two Nurse Practitioners practicing in the CoEWH clinic.

The School of Medicine Curriculum Committee will conduct an analysis of the Pre-Clinical Education Program for the M.D. degree, using the Association of American Medical College's CurrMIT curriculum database to identify gender-specific topics appropriate to enhancing women's health. This is scheduled, but not yet completed. The degree programs in the other health professions schools have been asked to conduct similar analyses.

Curriculum in Women's Health in the School of Social Work: As it is appropriate to social work, women's health is covered across the Social Work curriculum (Human Behavior in the Social Environment, Welfare Policy, & Practice). A central Social Work theory is a bio-psycho-social-spiritual view of a person in his/her environment. As well, social work is committed to vulnerable populations. Women are considered such a population.

Pharmacy: The Women's Health curriculum exists in Pharmacy 715 (12 lecture hours). This follows the AACP guidelines for women's health curriculum.

IT-Folicacid.net is a multidisciplinary site pre and post test required for all Pharm 715 students

Case based (problem based) exercises on Pharm 723 (4 hours) regarding women's health, pregnancy, osteoporosis and menopause.

West Virginia University is committed to the education of health care professionals for West Virginia including medical, dental, nursing, and pharmacy, as well as professional programs including exercise physiology and medical technology. Our former Education Co-Director, Dr. Jamie Shumway is also the Chair of the Curriculum Committee for the School of Medicine. Dr. Nan Leslie, also Co-Director, is heavily involved in the curriculum planning for the school of nursing.

Curriculum

Undergraduate

Health professions schools (Medicine, Pharmacy, Dentistry, Nursing, Allied Sciences, and Social Work) have initiated a curriculum examination intended to identify women's health content in the curriculum. Quantity and quality of women's health content is being assessed with the intent that areas of weakness will be strengthened. Women's health experts in all schools are being identified and encouraged to serve on curriculum committees to ensure expertise in content areas. This is an ongoing initiative.

In order to foster the development of culturally competent health care professionals the School of Nursing (SoN) and the Department of Women's Studies at West Virginia University have joined in offering a "linked course." This course requires that freshman-nursing students who elect to take the course enroll in the introductory course in the SoN and a linked women studies course. They are required to fulfill specified activities and readings that satisfy both course requirements. Dr. Susan McCrone (SoN) has developed this course and teaches it in conjunction with Dr. Ruth Kirschner (Community Medicine).

One hundred students enrolled in a Community Health education class developed posters for a community-wide poster presentation. The presentation focused on health issues of women, especially those who were in violent relationships.

Graduate

The graduate professional schools have developed a similar curriculum assessment and revision plan as that has been instituted for the undergraduate curriculum. The graduate core curricular offerings are being expanded and women's health experts are members of the curriculum committees in the School of Medicine (Dr. Mahreen Hashmi), the School of Nursing (Dr. Nan Leslie-graduate education; Prof. Doris Burkey-undergraduate education), and the School of Allied Health (Dr. Rachel Yeater). The School of Medicine (SoM) Curriculum Committee is conducting an analysis of the Pre-clinical education program for its students using the AAMC CurrMIT curriculum data base to identify gender-specific topics appropriate to enhancing women's health. The degree programs in the other health professions schools will conduct similar surveys.

A graduate student in the Public Health program developed and delivered a workshop "Social and Cultural Barriers to Health among African American women.

The Department of Obstetrics and Gynecology is in the process of expanding the number of individuals in residency and fellowships, and Medicine, Nursing, Pharmacy and Dentistry are in the process of planning a senior year elective clerkship through the Women's Center of Excellence. A women's health fellowship for residents in Obstetrics & Gynecology, Internal Medicine, and Family Medicine is also being planned.

The Education Committee is in the process of developing an interdisciplinary education module to be utilized by students across the health professions schools. The intent of this learning experience is to promote and encourage interdisciplinary understanding and cooperation among members of the various health professions schools, and also to increase students' awareness and understanding of the unique health care needs of women across the lifespan in this rural Appalachian state.

This module is explicated as follows:

The first module, which will also serve as an exemplar for future module development, focuses on the health promotion/health dysfunction prevention of adolescent females. Interdisciplinary teams of students will collaborate to develop a health care plan for the adolescent female. The teams will present their plans to a board of judges from the HSC disciplines that are participating in the CoEWH. This could be an annual event, but the various schools in HSC must agree to participate. Perhaps a monetary prize could be awarded to the team(s) with the "best" (most appropriate, comprehensive and practical) plan(s).

A member of each health discipline will be asked to provide an overview of the discipline specific content that we would expect to be addressed by the student teams.

This is still in the planning stages see (technical report and 3rd qtr report for examples etc.)

The Certificate in Women's Health Track is seeking to become a track that would be attractive to all students across the University. Currently, this newly approved program has completed its first round. One student has completed a manuscript pertaining to women's health care and has been submitted for consideration for publication.

WVU has developed a newly approved track in Public Health that will focus on women's health.

Information Technology

The state of WV has had a long-term commitment to the people of the state in terms of education and health care. To this end the state, the institutions of higher learning and private agency have teamed together to offer health care students learning experiences in rural areas (Rural Health Education Partnerships – RHEP). Today all health professions students are required to experience a 3-month rural clinic rotation in a community clinic/agency as a facet of their education. In addition to course learning requirements, students are expected to complete a service-learning project aimed at serving the people and agency in which their rural rotation is assigned. Because students must continue with University/College coursework while in their rural site, a sophisticated information technology network has been established in

WV. The assorted health care professions utilize a variety of web casting modalities to educate both students and the public. For example, the School of Medicine delivers education not only to medical students but provides education and consultation to health professionals across the state via Mountaineer Doctor Television (MDTV). MDTV currently delivers services to 19 distant sites and two service providers in WV, MD, and OH. Because community education is a growing emphasis, live web casting and MDTV are utilized to educate EMS providers, facilitate patient support groups such as diabetes support groups, and provide professional continuing education opportunities in the communities. A wide variety of continuing education programs in topics of interest in women's health and intended for web broadcasting are now available or under development.

The Health Sciences has acquired Camtasia Flash with a centralized support center. This software is now in use for all Faculty training. We are now recording lectures offered for faculty development. Lectures may be revisited in the following formats; PowerPoint – source file available for download; Camtasia Flash – flash movie which integrates the instructor's interaction with the screen. The voiceover is captured from wireless microphone. Participants have the ability to select any part of the lecture, via navigations links to the left. They can also scroll forward or back to repeat sections. Lectures are also downloadable audio file to MP3 players. All Faculty and staff development lectures are now captured and available.

Public Broadcasting

Dr. Bob's Health Report ₅ and Doctors on Call are televised programs that feature a wide array of women's health topics. Doctors on Call offer an interactive format that allows the public to call into the TV studio and ask questions for the speaker to answer. These programs feature a variety of health professionals as speakers and address a range of subjects.

Newspapers

The CoEWH is presently initiating a weekly newspaper column in the local newspaper that addresses a topic that is pertinent to women's health. Health professionals are being recruited to participate in this initiative. The written columns will be sensitive to the literacy levels appropriate to the residents of WV.

Dr. Mahreen Hashmi, Education committee, is both the program director for the OB/GYN residency program and coordinator for the women's health rotation for junior medical students. The institution provides support for these individuals' time and effort to make curricular changes and is currently considering a women's health fellowship program.

c. Numbers of individuals in residency and fellowship programs in Women's Health Expand the numbers of individuals in residency and fellowship programs in women's health.

We continue to offer our certificate in Women's Health. Enrollment in this program has increased. An online Women's Health Curriculum was developed and implemented this year for medical students. Distance technology regularly used for education in the health profession schools. Members of the Education component participate on curriculum committees as Women's Health Experts. We continue to work on the development of Residency Fellowship Program in women's health. It would be housed in the Department of Obstetrics and Gynecology. The fellowship would be open to residents who have completed training in Obstetrics and Gynecology, Internal Medicine and Family Medicine. A proposed curriculum has been developed.

Pharmacy Internal Medicine Specialty Resident (PGY-2) could have a women's health component if the candidate wishes. We are presently recruiting a candidate for this position.

d. Curriculum component in women's health module: Develop a curriculum component in the form of a women's health module.

The WVU CoEWH Professional Education Working Group has continued to meet and plan for the development of a module that all health professions at all levels of the continuum of education can access.

It is envisioned that these learning materials be available on the Internet and in a form that can be easily accessed. The emphases and differences that may be required by the different health professionals (students and practitioners) accessing it will be accommodated by discipline and “continuum specific” study guides that will be developed by expertise in the various health professions, schools, and programs. (Status: This is currently in the discussion and planning stages. The literature is being searched for suitable materials and pre-existing e-learning materials. This topic is a major item for discussion at the next Working Committee meeting.). Dr. Christina DiBiase from the School of Dentistry has developed an electronic presentation entitled, “The Link between Periodontal Disease and Heart Disease & the Role of Oral Infection Control.” This presentation is available for students at WVU and as part of the CoEWH lecture/presentation series.

A component of this module will address “cultural competence” issues, thus contributing to the accomplishment of performance indicator A. The cultural distinctions include women of the State who are primarily of a rural, entirely Appalachian population, most of who do not move out of the state. People of WV are undereducated as a whole. In 2000, approximately 20% of the population age 25 or younger did not have a high school diploma.

e. Increase the number of individuals in residency and fellowship programs in women’s health

A Fellowship/residency in Women’s health in the School of Medicine is planned. Residency recruitment plan in planning stages.

f. Develop or expand curriculum component in women’s health module

A women’s Health education certification has been developed, approved and offered. This is primarily graduate level and undergraduate level.

West Virginia Rural Health Education Partnership (WV RHEP). The mission of the West Virginia Rural Health Education Partnerships is to achieve greater retention of West Virginia trained health science graduates in underserved rural West Virginia communities by creating partnerships of community, higher education, health care providers, and governmental bodies. This mission is not rhetoric, rather one that has been carved from a set of guiding principles formulated by the partners who govern this organization and have four years experience at building this partnership. Value-based leadership from all elements that constitute the partnership characterizes our organization: the community and rural providers, higher education, and state government. The values of WV RHEP are: partnerships between communities and institutions, high quality education experiences, community-based education experiences, interdisciplinary teaching and learning, and community-based service and research. The use of information technology to keep the students linked is foremost in the implementation of this required program. At the major rural teaching sites there are Learning Resource Centers (LRCs). Each LRC is equipped with desktop computers and ports for students to connect with their laptops (a required part of the MD and Allied Health professional student programs).

To provide a platform for the dissemination and access to the delivery of the WVU CoEWH has established a website: www.wvhealthywomen.org.

The School of Nursing uses web casting as a method to deliver content to students at distance-learning sites. (On-going).

Mountaineer Doctor Television (MDTV). No change in its use. It was described in the December 2004 Quarterly Report:

MDTV delivers education across the state to students in different locations. MDTV is a state-wide Tele-health Network delivering services in clinical telemedicine consults professional continuing education, patient/community education, distance learning and administrative teleconferencing. MDTV currently delivers services through a digital ISDN network to 19 distant sites and 2 service provider sites located within the states of West Virginia, Maryland, and Ohio. The use of ISDN allows MDTV to expand its services throughout the world, thus improving our current administrative teleconferencing capabilities. MDTV can provide point-to-point or multi-point configurations at varying bandwidths. WVU uses MDTV to provide graduate and undergraduate courses, which allows the students to remain in their local

community while pursuing their educational goals. Medical students and residents doing rotations at any of the distant sites have access to programs originating from the two service provider sites to complement their training. Community education continues to be a growing area of the network. EMS programs are held on a bimonthly basis in an effort to assist EMS personnel in understanding their unique role in the recognition and prevention of injuries. A diabetes support group was also developed for patients in communities with MDTV. This program educates patients on the importance of proper diet, exercise, and blood glucose monitoring. Professional continuing education is also an integral component of the MDTV system. Weekly grand rounds in Emergency Medicine, Medicine, Pediatrics, and Surgery are available to all distant sites. With increased demands and shrinking resources for continuing education across the state, MDTV provides a valuable educational tool in decreasing professional isolation. (No change. Continues to be used to connect the campuses and rural areas for the delivery of real-time education and clinical care.)

Two other physician programs are of note: Doctors on Call (a weekly call-in television program) and Healthline (a weekly call-in radio show). While they are mainly to answer questions of a clinical nature, considerable education of the public on pertinent health issues occur (see attached). Secure OnLine Environment (SOLE): SOLE is learners' portal for online education and information. It is a web-based tool for students to access courses and for instructors to build and maintain those courses. Developed by Academic Technologies as an open-ended system for online course development and management, SOLE harnesses the communication power of the Internet with a single-login, user-friendly environment. SOLE began as a course delivery system, but has grown to become an environment for many other applications and resources. This is WVU's main LMS (Learning Management system). WebCT is also used as a development and LMS platform for the development of instructional materials.

The CoEWH web site continues to be updated with particular attention to the possibility of it to serve as a medium for our educational materials.

The University has invested in a new e-learning platform for course development – VISTA. It replaces WebCT as the old platform.

f. Collaborate on professional education/training activities with other institutions and programs

The RHEP program lead by Hilda Heady, Associate Vice President for Rural Health, WVU, serves as a model for collaboration of professional education. RHEP partners with 476 +/- sites across 54 counties. It includes seven schools and 13 disciplines.

We will collaborate with senior management level of the project and collaborate internally with the Leadership component. For example: Develop a mentorship program for women in health professions. The program will offer an opportunity for integration and collaboration among working groups (Education and Leadership), and afford an opportunity for emerging leaders in women's health in WV to be mentored by women who have an in-depth knowledge of the culture, needs and practices of women in the state.

In cooperation with other schools and departments in the University, the Educational Working Group will establish interdisciplinary alliances that will foster holistic and comprehensive care for women of WV and society. Interdisciplinary alliances already established include:

Continue to work with interns and other students from across the University, including WVU Women's Studies, students from the College of Business and Economics, Civic Engagement etc.

Collaboration has occurred at the senior management level of the project. But no direct collaboration has occurred with representatives of the Professional Education Working Groups getting together. Internal collaboration has occurred however. For example:

A mentorship program for women in health professions is planned in collaboration with the Leadership Working Group. Not only would such a program offer an opportunity for integration and collaboration among working groups (Education and Leadership), but it would afford an opportunity for emerging

leaders in women's health in WV to be mentored by women who have an in-depth knowledge of the culture, needs and practices of women in the state.

In cooperation with other school and departments in the University, the Educational Working Group will establish interdisciplinary alliances that will foster holistic and comprehensive care for women of WV and society. Interdisciplinary alliances already established include:

An industrial relations graduate student from the WVU College of Business and Economics has worked with the CoEWH project director to develop an internal communications model for the CoEWH.

Use innovative information technologies to provide education and training for health care professionals. Distance learning is regularly used for education in health professions. Rural health (RHEP) is a rotation across all of the health professions. See prior reports for descriptions etc.

We are now recording lectures offered for faculty development. Lectures may be revisited in the following formats; PowerPoint – source file available for download; Camtasia Flash – flash movie which integrates the instructor's interaction with the screen. The voiceover is captured from wireless microphone. Participants have the ability to select any part of the lecture, via navigations links to the left. They can also scroll forward or back to repeat sections. Lectures are also downloadable audio file to MP3 players. All Faculty and staff development lectures are now captured and available.

g. Collaborate on professional education/training activities with other institutions and programs. The RHEP program is a collaboration of all Health professions in the institution. SON regularly collaborates with the College of Arts and Sciences, Women's Study program, as well as with Public Health students etc. We welcome the opportunity to collaborate with other institutions as funding becomes available. In the meantime we collaborate with other institutions as CoEWH.

h. Collaborate with other entities as the local, state and regional levels to foster teaching and learning in women's health.

Participation with RHAP includes 476 sites across the state, (54 Counties). There are seven schools from across the state included in the rotations representing 13 Health science disciplines. This allows for continual collaboration with other entities, local, state and regional.

i. Serve as a Change Agent within University

The directors and members of the education component collaborate with other departments within the university to be more inclusive of women's health issues. The component directors participate on curricula committees.

We are working on the development a plan for change that will include: the development of a communication tool whose purpose is to communicate the mission of the CoEWH to the Robert C. Byrd Health Sciences Center faculty, staff and student body as well to the University at large and the constituents of the State of WV. The goal of this communication tool is based on a basic change philosophy, in order to effect change; the organization must achieve the buy in from its staff. The staff will buy in if they feel valued and that happens when we feel a part of the whole. That is achieved by communication. This will be an ongoing process.

Determine specific facets of curriculum in all health care disciplines that target women's health issues. Stress the need for culturally competent health care, especially for WV women:

Integrate Informatics and Distance Education Modalities to offer holistic education modules in various aspects of women's health care that are targeted to specific health care providers but are wide enough in scope to be appropriate for other health care providers. An agenda item has been placed on the School of Medicine's Curriculum Committee to appoint a subcommittee to 1) identify curricula that relates to women's health, and 2) to suggest strategies to enhance women's health teaching in the curriculum. Recruit education opinion leaders in women's health to promote curriculum change among the health professions schools and continuum of education.

The school of Pharmacy works with the CoEWH to raise awareness for women's issues locally, regionally, nationally and through world wide networking channels.

j. Collaborate with OWH, DHHS Regional Women's Health Coordinators and State Women's Health Coordinators and Minority Women's Health Panel of Experts: Collaborate with the Office of Women's Health (OWH), DHHS Regional Women's Health Coordinators (RWHC), State Women's Health Coordinators (SWHC), and Minority Women's Health Panel of Experts (MWHPE) on issues affecting women's health.

The leadership of the Professional Education Working Group works closely with the overall leadership of the WV CoEWH and with the component leadership of the Leadership and Outreach Working Groups

Not implemented yet at the national level. Waiting to hear from the funding agency.

At the state level, collaboration has occurred through the various state agencies. This has mainly been possible working with the Outreach and Leadership Working Committees.

k. Participate in CoE Professional Education Working Group

Representative(s) are available.

l. Demonstrate institutional commitment consistent with policy and implementation in changing the curriculum

Education co-directors are members of the curriculum committee and WISH.

Representatives of all departments, schools and colleges in the Health Sciences and from several departments, etc., within the University participate actively in the CoEWH. This was demonstrated by the participation of all components and leadership of the health sciences community at the site visit, the Celebration of women in medicine and Dixie Horning visit. The integration of all health professions into the "Changing the Face of Medicine" program demonstrates the change in the culture.

m. Integrate with other key components

Representatives of all departments, schools and colleges in the Health Sciences and from several departments, etc., within the University participate actively in the CoEWH. The directors of the Education component are members of the team that will deliver the "Changing Face of Medicine Celebrating America's Women Physicians" The Outreach Director, the Deputy Director and the project director are all working with the well integrated WVU team.

Evaluation

The evaluation material developed in 2005 and updated in 2006 is continuously monitored and used as guidance.

Publications by WVU Faculty focusing on Women's Issues:

School of Nursing:

Cleveland, A., & McCrone, S.H. (2005). Development of the Breastfeeding Personal Efficacy Beliefs Inventory: A measure of women's confidence about breastfeeding. *Journal of Nursing Measurement*, 13 (2), 115-128.

Owens, J., & Leslie, N. (2005). The worry that goes with warts. *Clinical Excellence for Nurse Practitioners*, 9(3), 137-140.

Badzek, L., Leslie, N., Schwertfeger, R., Deiriggi, P., Glover, J., & Friend, L. (2006). advanced care planning: A study of home health nurses. *Applied Nursing Research*. 19, 56-62.

Tessaro I., Rye S., Parker L., Trangrud K., Mangone C., McCrone S., & Leslie N. (2006). Cookin' Up Health: Developing a nutrition intervention for a rural Appalachian population. *Health Promotion Practice*, 7(2), 252-257.

Samoa, J.B. & Leslie, N (2007) The Role of Advanced Practice Clinicians In The Availability of Abortion Services in the U.S. *JOGNN*.

School of Social Work:

Alkadry, M. G., & Tower, L. E. (2006). Unequal pay: The role of gender. *Public Administration Review*, 66(6),

Tower, L. E. (2006). Barriers in screening women for domestic violence: A survey of social workers, family practitioners, & obstetrician-gynecologists. *Journal of Family Violence*.

Tower, L. E., & Mersing, R. (2006). Battered rural women & safety: Barriers & solutions. *Proceedings of the National Institute on Social Work & Human Services in Rural Areas, USA*, 120-129.

Community Outreach Component

Outreach Highlights-

- The Consumer Advisory Board and Working Groups continue to:
 - Identify and disseminate health materials to women across the state
 - Identify and deliver priority screenings, especially for minority and underserved
 - Increase COEWH visibility
 - Expand Speaker's Bureau
- Delivered/participated/lead: seminars, lectures, conferences, presentations, and exhibits across the state. Made progress on plans for public exhibits/posters funded by a WVU Public Service grant. These will feature priority women's health messages (e.g., domestic violence, obesity prevention, dental, and wellness) and will be used at community and state outreach events.
- Consumer Advisory Board members are helping to establish women's health resource centers at Pocahontas Memorial Hospital, which serves a rural area, and at a high-rise apartment building for low-income senior citizens in Wheeling.
- Provided literature to public health students, Consumer Advisory Board members, and other health advocates to distribute at community events, such as libraries, senior centers, and community centers.
- Outreach co-director Dr. Barb Howe participated in a health fair/retreat for about 80 women in Bruceton Mills on January 27. It was organized by parish nurses in the United Methodist Church. This could be a model for other rural communities.
- Cathy Jasper, a member of the Women of Color Empowerment Committee, shared health literature and National Women's Health Month materials with committee members to distribute at black churches on Easter Sunday, April 8.
- Outreach co-director Dr. Barb Howe is involved in planning a town meeting on affordable health care sponsored by the West Virginians for Affordable Health Care on May 2 in Morgantown.

Accomplishments for January 1, 2007-March 31, 2007 are cited under each objective.

1. Identify and develop culturally and linguistically appropriate women's health education materials/activities

a. Women's health education materials

- Distributed OWH materials to many communities via CAB members.
- Continued to identify Spanish-speaking women and distribute Spanish language resource materials for the small but growing West Virginia Hispanic population by working with a student getting service learning credit through the WVU Civic Engagement Department.

- Two new WVU Extension Service publications, “Brush Up on Healthy Teeth” a Leader’s Guide and Participant Handout are being distributed with other standard information on women’s health screenings.
- Dr. Howe is on the doctoral committee for Ms. Jan Rezek, a faculty member at West Virginia University Institute of Technology (WVUIT) in Montgomery, West Virginia. Ms. Rezek is interested in doing her PhD project on a women’s health topic related to at-risk girls in rural West Virginia, particularly those who become mothers before the age of 18.
- WVU faculty incorporates women’s health education materials in their classes. We include developing materials for traditional college-age students since WVU has a student population of 28,600 students for the fall 2006 semester, and the undergraduate student population is over 90 percent traditional college age (18-22), a much different demographic than one finds elsewhere in the state. Dr. Howe focused a part of her spring 2007 WMST 225: Women in Appalachia course on women’s health issues. Students read about traditional medical practices and wrote about women’s health issues. Two nursing students in the class became very interested in doing something about women’s health in the state for their required rural rotations and, we hope, in their future careers.
- The CAB and WVU outreach committee members believe that our primary focus should be on identifying and distributing existing materials before we begin developing new materials. To that end, a women’s health resource working group was established to carry out this goal. Members include Kim Cordingly (Chair, Job Accommodation Network), Pat Smith (Cancer Information Specialist), Susan Anderson Borrer (CAB member), Laura Carter (CAB member), Tammy Hart (WVU Student), Mary Ellen Zeppuhar (WVU Center of Excellence in Disabilities), and Susan Hayden (West Virginia Library Commission, Adult Services Library Consultant).
- The WVU Center for Excellence in Disabilities has a database system, which is housed on Brinkster.com that could be used as a model for the COEWH’s informational materials. Barb Howe met with the CED staff person responsible for managing this system and learned that it could be very valuable for the COEWH, but further progress in adopting this system depends on the new COEWH administrative assistant having time to work on this.

b. Women’s Health Resource Inventory

- CoEWH developed an extensive inventory of Women’s Health Resources during 2005-06 as requested by the OWH. This listing is located on our web site www.wvhealthywomen.org. During this quarter a student group has worked on organizing the resources on our web site. We anticipate this process to be completed by April 2007.

c. Women’s Health Resource Center

- We are establishing women’s health resource centers around the state through our CAB members. These will include Pocahontas Memorial Hospital and senior apartments in Wheeling, where many low-income women live. CAB members also suggest that we have literature available at the Morgantown Health Right, which serves people with no health insurance. While we will explore this option and will focus on low-literacy materials. Health Right serves a large homeless population. We are inviting Laura Jones, executive director of Health Right, to join the CAB, so this will make it easier to distribute information to the Health Right network around the state.

d. Develop health education activities on prevention and treatment of CVD, diabetes, cancer, and HIV/AIDS and innovative outreach strategies

1) Health education activities on prevention and treatment of CVD

- Dr. Bowen collaborated with the American Heart Association (AHA), WVU partners, and Wood County partners on a pilot community project on heart health.
- A May 16 “Love Your Heart Talks” training will provide WVU Extension’s county faculty and key volunteers with materials to build a cadre of volunteers to disseminate heart health information in their communities. This is funded by the WV Cardiovascular Health Program. This project has been worked on during this quarter.

- “The Heart of the Mountains” video, featuring stories of nine West Virginians with heart disease or stroke, was distributed to 173 public libraries. It was produced as part of the “Love Your Heart Talks” project.
- CAB member Lisa Lee-Ranson promoted American Heart Association February Heart Health events via the CAB and COEWH. We have COEWH materials at as many of these as possible:
 - January 19 - Style Show near Wheeling
 - February 2 - Go Red lunch in Huntington
 - February 6 - Go Red lunch in Morgantown - Co-directors Barb Howe and Elaine Bowen, plus Betty Critch Parsons and Ann Chester, attended this event, as did CAB member Judi Nuckells.
 - February 7 - Go Red lunch in Wheeling
 - February 13 - Go Red lunch in Clarksburg – Elaine Bowen gave an overview of the burden of heart disease in WV.
 - February 14 - Go Red lunch in Beckley
 - February 14 - Go Red lunch in Wheeling
 - February 16 - Go Red lunch in Parkersburg
 - February 21 - Go Red lunch in Charleston
 - February 24 - Charleston Heart Gala
 - February 24 - Heart Ball - Belmont County Club

The COEWH and CAB will also promote heart walks this coming fall.

2) Health education activities on prevention and treatment of diabetes

- CAB member Monica Andis is very involved in state diabetes education programs.
- Elaine Bowen is on the planning committee for the October 24-26, 2007 Diabetes Symposium & Workshop, a professional development activity with national and international experts in diabetes care and research.

3) Health education activities on prevention and treatment of cancer

- We continue to identify and work with partners to deliver screenings.
 - CAB member Julie LeJeune is working with the Mountains of Hope Cancer Coalition on early detection and screening strategies for their multi-year Cancer Plan and promotes COEWH as a partner in this effort.
 - Dr. Wanda Hembree presented a Women’s Night Out Lecture on HPV and the Vaccine for the Prevention of Cervical Cancer on February 27. Pamela S. Courtney, MSN, WHNP Women’s Health Nurse Practitioner, CoEWH presented a HPV Lecture to the Faculty and Staff. These presentations will also be used in the exhibit/posters.
 - Barb Howe, CAB member Mary Glenn Rice and Betty Critch Parsons are on the planning committee for a “Teaming Up to Beat Cancer” event in Morgantown April 14 to address ovarian cancer and prostate cancer. The COEWH will have an exhibit and literature.
 - Linda Jacknowitz, Mountains of Hope Cancer Network and the WVU Mary Babb Randolph Cancer Center will attend the May 22 CAB meeting to talk about the cancer awareness plan. Barb Howe and others will attend a May 23 Mountains of Hope cancer awareness plan meeting. about.

4) Health education activities on prevention and treatment of HIV/AIDS

No activity in this area.

5) Innovative outreach strategies

a) Participation in conferences and seminars

- We continuously identify conferences where the COEWH can have a presence. Such conferences may include the general audiences, community leaders, and health professionals.
- We established a Working Group on Conferences and Seminars to identify priority events for COEWH involvement. Members are Julie Lejeune (Chair), Judy Wilkinson, Susan Anderson

- Borror, and Sharon Brinkman-Windle. Ann Dacey continues to take a key role on a Benedum Foundation project: The Perinatal Wellness Study is a planning grant from the Claude Worthington Benedum Foundation to consider the extent of the issues, learn what perinatal preventive health programs currently exist, and identify how other states address the issue. The Perinatal Wellness Study web site is http://www.wvhealthykids.org/p_wellness/pw_home.htm.
- COEWH literature was distributed at the United Methodist health fair/Ladies Retreat in Bruceton Mills January 27. Approximately 80 rural women of all ages attended. Parish nurses coordinated the program. We anticipate future coordination with the parish nurse program.
 - The WVU Center for Women's Studies and WVU Division of Sociology and Anthropology presented a program on global sexual trafficking March 6 at WVU. COEWH materials were available.
 - Dr. Wanda Hembree presented a Women's Night Out Lecture on HPV and the Vaccine for the Prevention of Cervical Cancer on February 27 at the WVU Mountainair.
 - Upcoming events include: a Women's Night Out Lecture on Sexual Assault by Deb Strouse on April 10; the Teaming Up for Cancer luncheon at Lakeview Resort in Morgantown on April 14 that focuses on ovarian cancer and prostate cancer; a lecture on April 16 by Dr. Bei Wu of the WVU Center on Aging on Chinese women and aging; a meeting in Morgantown on May 2 on affordable health care.
 - Elaine Bowen presented a dental health education workshop to professionals at the West Virginia Association of Family & Consumer Sciences annual meeting.

b) Exhibits

- We worked on content for COEWH exhibits/posters funded with the WVU public service grant. Monica Andis, a WVU outreach committee and CAB member designed a nutrition poster; Sharon Brinkman Windle is designing a cancer and a cardiac poster; CAB member Laurie Thompsen supplied information on domestic violence; and Dr. Wanda Hembree provided information on HPV and the Gardasil vaccine. These exhibits and posters will be finished in June.
- The COEWH exhibit and accompanying COEWH literature were used at the following events, as listed previously:
 - January 27 women's retreat in Bruceton Mills.
 - February 23-25 presentations of the "Vagina Monologues" at WVU.
 - February 27 lecture on HPV and vaccine and cervical cancer.
 - March 6 lecture on global sex trafficking.
- A Working Group on Fairs and Festivals is helping plan and carry out women's health activities at state and community fairs and festivals.
- The WVU Center for Women's Studies always includes COEWH brochures at events.

d) Building Networks

- Betty Critch Parsons chairs the Morgantown Chamber of Commerce Vision 2020 Health Committee.
- Betty Critch Parsons is a member of the WELCO (Wellness council of American) North Central West Virginia Board of Advisors
- Dr. Howe, Betty Critch Parsons, and WVU outreach committee member Linda Cooper are members of the West Virginia Walks Committee. This group did not meet during this quarter, but Barb Howe will be contacting Linda Cooper for information to include in the exhibit/posters for the public service grant.
- Betty Critch Parsons continues to be the president of the North Center West Virginia SHRM (Society for Human Resource Managers) and a member of the State Board. We believe this is an effective way to get wellness in front of and a part of the strategic plan of Human Resource Managers/Directors across the state.
- Ann Dacey is president elect of AWHONN (Association of Women's Health Obstetric and Neonatal Nurses). Ann is also the Co-Director of the Prenatal Wellness Study.

- Elaine Bowen initiated a project in which Community Educational Outreach Service (CEOS) leaders will deliver targeted health messages to club members at monthly meetings. Materials on the health benefits of walking are currently being developed for training in October 2007.

f) Newsletters/Newspaper Articles

- Articles about the COEWH were published in the following:
 - WV Community Educational Outreach Service quarterly Openline Newsletters
 - Organizations are expressing interest in women's health information. The following organizations have newsletters which may provide additional avenues to reach different audiences: West Virginia University Center on Aging, WV Breast and Cervical Cancer Screening Program, the WV Medical Association, and West Virginia Child Care Providers, WVU Hospital's Wellness Program, Monongalia General Hospital Wellness Program, Blue Cross-Blue Shield, West Virginia Federation of Women's Clubs, American Association of University Women, Business and Professional Women, as well as the West Virginia Education Association, and West Virginia-National Association of Social Workers.
- We plan to develop a series of short articles for weekly county newspapers and other periodicals around the state, too, or even in regular daily newspapers. Articles may be distributed statewide through the WVU HSC News and Information Service for a regular series on women's health. We envision these to be short pieces (c. 300 words) that may build on some of the material already available on the OWH web site, with specific information added on WVU resources or West Virginia issues.
- We work with the WVU HSC News and Information Service to publicize COEWH activities. An article on "Why West Virginia Women's Health Matters" is being discussed by the WVU Outreach Committee to help articulate the relationship between health issues and women's employment, education, political participation, etc. Dr. Howe and other outreach partners will collaborate and submit it to the State Journal, the state's business journal, and to the West Virginia Institute for Public Affairs' Public Affairs Reporter for state government officials.

g) Television and radio coverage/billboard

- Stacy Wise of the WVU HSC News and Information Services is our liaison to the media.
- Business cards with the COEWH phone and web site are distributed at events.

h) Student Events

- FMLA (Feminist Majority Leadership Alliance, formerly Female Equality Movement), a WVU student organization, regularly does public programming related to women's health. FMLA presented the "Vagina Monologues" on February 23-25, and the COEWH had an exhibit there. FMLA also made plans for its annual Take Back the Night event on April 5.

i) Student Advisory Board

- We have taken preliminary steps to establish a student advisory group to link students in social work, women's studies, law, and health sciences disciplines in projects related to women's health, with the idea of fostering cross-disciplinary discussions and cooperation among students who may then work together as professionals. This idea grew out of the WVU Outreach Committee.

j) Participation in the Women of Color Empowerment Committee (WOCEC)

- The provides networking opportunities and enhances leadership capacity and support for women of color and activists working to eliminate violence against women and children. Kenyatta Coleman of the West Virginia Coalition Against Domestic Violence coordinates the network. Cathy Jasper, administrative associate for the WVU Center for Women's Studies, is our representative. Ms. Jasper is on the COEWH brochure cover photograph. The Center for Women's Studies supports Ms. Jasper's travel to meetings through its Judy Mossburg Fund for Faculty, Staff, and Student Development, to support Ms. Jasper's professional development. The WOCEC has a grant from the Appalachian Community Fund.
- Ms. Jasper attended the WVU outreach committee meeting on January 23 to discuss the WOCEC work and volunteered to distribute materials on women's health and National Women's Health Month to network members to distribute at black churches on Easter Sunday.

k) Outreach to Immigrant/International Groups

We are developing outreach to minority groups including immigrant communities in West Virginia who may not understand the American health care system or may need culturally appropriate materials.

m) Office of Healthy Lifestyles

Linda Carson, WVU outreach committee member and member of the coordinating group for the WV Office of Healthy Lifestyles, chairs the Working Group on Healthy Lifestyles. This working group will help the COEWH collaborate with the new statewide initiative. Dr. Carson is a member of the CoEWH Advisory Board.

Other Contacts with Minority Communities

Barb Howe and Elaine Bowen initiated a partnership with the West Virginia Coalition for Minority Health (WVCMH) during the fall of 2007. The mission of WVCMH is to decrease disease incidence and mortality and increase survival rates among minorities. Its goals include: 1) to coordinate programming, collect and distribute resource material; 2) to increase community involvement in health screening programs; 3) to collaborate with statewide health initiatives; and 4) to support and fund community-based programming. A WVU student is working on establishing a north-central West Virginia chapter of this coalition, as her mother is the state coordinator. We anticipate that there will be many opportunities to work with this group in the future.

2. Develop a website for the COEWH

The site is promoted on the new COEWH brochure and at all outreach events. Outreach co-chairs submit materials to post on the web site and continually develop this site as a useful resource. We have a list of books on women's health and a link to the WVU Bookstore so people can order these through the bookstore.

- We link to organizations with similar goals, including the West Virginia Department of Health and Human Resources and organizations, which our CAB members represent (e.g., West Virginia Lymphedema Network.)
- The COEWH site has the list of National Health Observances in a calendar format. WVU Health Sciences News & Information Services routinely refers requests for this information to our site.
- A calendar of health events in West Virginia is available. CAB members and others submit event details to publicize their events.
- As noted above, the resource inventory is posted on the site.
- We plan to develop a press resource section on our COEWH web site to publicize the COEWH and links to materials available on women's health sites (www.4woman.gov).
- Relevant press releases from WVU Health Sciences Center are posted on the web site.
- The health resources working group will work with the COEWH web administrator to organize on-line resources in categories under areas of health (Wellness, Cancer, HIV-AIDs, and so on) to make it easier for those visiting the site to locate information.
- Marie Abate, WVU outreach committee member, works with pharmacy students who answer questions through a web-based information line, Health Tip that is linked to our web site. These students may also be able to translate material about prescriptions and drug usage into a low literacy format.
- Links were built to sites such as the West Virginia Department of Health and Human Resources. We also plan a link with information about accessible transportation options for people with disabilities around the state.
- The site includes information about women's health screenings. While not everyone has Internet access, publicizing existing clinics is a public service.
- The web site is under reorganization and should be up in a new and more user friendly manner by the end of April.

3. Develop professional and lay outreach worker program

No further development on this objective.

4. Develop Consumer Advisory Board (CAB) and community alliances, especially serving underserved populations

- Approximately 30 CAB members represent 24 different organizations and 14 geographically dispersed counties, with an emphasis on membership chosen from partnering organizations. Members are drawn from the community and represent the served populations. This cross membership strengthens links between the COEWH and partners. The board provides advice and feedback to all COEWH components.
- CAB membership expanded to better represent underserved populations and all geographic areas, including faith communities, eastern panhandle of West Virginia, and minority health leaders.
- CAB members have affiliations with 27 professional organizations, 29 community civic organizations, 6 religious organizations, 5 universities, 8 media outlets, and 21 local health providers.
- Our second CAB meeting of 2006-07 was March 16 via videoconference to Morgantown, Charleston, and Wheeling, with six members attending. Meeting minutes are as follows:

The meeting began with introductions and updates on current activities, including:

Cathy Yura: Eating Disorders Week is now taking place, and the COEWH has had literature available at the program that a Comedy Central speaker and at the booths in the Mountainair during the week, along with other information on eating disorders. Cathy will share with Barb Howe the CD that has this information. The Carruth Center at WVU is in charge of these events. One event is to “Be Comfortable in Your Genes,” and students have collected 142 pairs of old jeans to distribute. The Carruth Center is also working on gambling awareness week and National Collegiate Health Week, which has a focus on the need for sleep. The Jedd Foundation is a grassroots effort for young adults trying to take away the stigma of mental health. 46 students came to the first meeting, and there will be a function at a BOPARC site on April 15 from 5-8 pm with bands and vendors providing information on mental health. Barb will get information to Cathy for this event.

Trish Weinschenker: The CEOS board meeting was last week. Those attending received information to share to help get people ready for National Women’s Health Month, 48 of the 55 counties have active CEOS groups, and she will send information to them for National Women’s Health Month.

Judy Wilkinson: She will check on having our exhibit and information at the conference of the West Virginia chapter of the National Association of Social Workers. Some 2000 people are likely to attend the meeting April 25-27 in Charleston.

Lynne Ryan: The WVU Council for Women’s Concerns has set up a lactation network at WVU and is using the international symbol for breastfeeding to identify these sites. She is also working with Preston Memorial Hospital to promote breastfeeding in Preston County for mothers who are eligible for the WIC program and for those who are not eligible. This includes programs in the hospital and after mothers go home...

Barb Howe: took our exhibit and literature to the program that the parish nurses presented in Bruceton Mills at the end of January and will follow up with the organizer of this event. She and Elaine are also now working with Hilda Heady to tap the RHEP and AHEC networks to distribute information.

Barb Kupchak: has a student doing a capstone project on breast self-exams. She also has a student doing a project on HPV in Morgantown and Preston County and is going to the student nurse conference to talk about it. Women’s health issues are popular with her students, and 1 started a food bank for people with AIDS. Three years ago, WVU did not have HIV/AIDS testing, and it was expensive for people to go elsewhere, but now WVU can do the testing for just \$10. Another student did a video to teach people how to swim, and this is now used around the state. It might be possible to have this video be linked to our COEWH web site, and we need to find ways to let Girl Scouts and women’s clubs know about our web site.

Lisa Lee-Ranson. There were “Go Red for Women” lunches around the state, and the power to end stroke campaign will be launched in May with the black medical society meeting. There may be a video for this power to end stroke campaign that we could make available on the COEWH web site.

Anne Williams: TANF has given a \$500,000 grant to DHHR to purchase contraceptives; this will support the family planning program’s need for contraceptives and pharmaceuticals through the end of June 2007. DHHR has asked for \$1.4 million more for family planning and it looks like they will get something for next year to continue the program. Pharmaceutical prices are stabilizing, but costs are still 2-4 times more than a few years ago; the program can do more bulk purchasing now.

DHHR has notified the 143 family planning clinics that they can use the vaccines for children program to provide HPV vaccines, but the clinics cannot cover the injection fees.

West Virginia on the Move is partnering with the family planning program to encourage more physical activity. There are 58,000 people in the family planning program each year, so they have a 6-week project to try to get more information to people about improving eating habits, setting up community walking assessments for patients, and getting the clinics to use the “prescription pads” for more physical activity. This program will launch in April.

The Breast and Cervical Cancer Screening Program has \$400,000 in state funds; there was some false information circulated that the program did not need this money, so it was pulled from the state budget, and it is not clear it was restored. The program is going to start using a different type of Pap smear, so they need to get supplies to the clinics. These should give better results and provide costs savings. This new program will go into effect July 1.

Women’s Health Month Discussion

Anne Williams reported that DHHR is planning events for Women’s Health Month. She will do a mass mailing of promotional materials to their provider clinics. This was mildly to moderately successful last time. She will also provide materials to the Right from the Start regional clinics and to the cancer information specialists. The Office of Women’s Health did promotional letters to the mayors of Charleston and Morgantown and to Governor Manchin. Governor Manchin’s office to request a women’s health month proclamation. The Governor has agreed to make such a proclamation. The details will be included in next quarter’s report. She will also post notices on the DHHR web site with information on places where the general public can go for information. The tobacco cessation and osteoporosis prevention programs are also getting information to promote women’s health.

Elaine Bowen added that there are few new events this year. There are very nice materials on the OWH web site, and more will be added. The OWH is considering a placemat with information for children and adults. There is special funding for pedometers for women’s health month through the Woman Challenge program. Pedometers will be available on a first come-first serve basis. Elaine sent e-cards to people to “save the date” for women’s health month. There is also a pledge you can take to improve your health, and then you get a certificate. There is information you can order on the web site for the OWH.

There were other suggestions for distributing information on National Women’s Health Month. Cathy Yura suggested using the WVU E-News and various listservs. Barb Howe said that Cathy Jasper, a member of the Women of Color Empowerment Committee, is distributing information to committee members to take to black churches for Easter Sunday.

Other Items

Judy Wilkinson said Governor Manchin had vetoed the breast-feeding bill. Lynne Ryan said there was a campaign to distribute stickers to restaurants to say that breast feeding was welcome there, but she is concerned that people might think that, if there is not such a symbol, they cannot breast feed there. We need legislation to protect breastfeeding in public.

Barb Howe mentioned ovarian cancer events on April 14 at Lakeview in Morgantown and on April 20 in Huntington.

Betty Parsons is talking to legislators at the state and national levels to educate them about the The OWH NCoEWH programs, how that benefits our state. She will discuss how the state can help support Women's Health. She will inform them that the OWH may lose funding for next year and may not be able to continue to function. She is presenting an Educational program to the women's caucus in Charleston. Senator Roman Prezioso is supporting a line item in the state budget of \$250,000 for the COEWH, and we need to talk to our legislators about this. Gayle Manchin is the honorary chair of the brain trust advisory committee; this adds credibility to the idea that we are a state-wide effort. Someone from the southern part of the state has talked to Betty because of Gayle's involvement in the COEWH. A new partnership is being formed with the most rural, underserved, under educated, under employed part of our state.

Public Service Grant

Lynne Ryan will provide information on breast feeding for the exhibits under this grant.

Judy Wilkinson suggested providing information on women helping women to promote mental health and empowerment through walking together, etc.

Barb Howe has met with Sharon Brinkman Windle about information on cancer and cardiac health and with Monica Andis on information on nutrition.

Distributing Information

Judy Wilkinson will check on getting information to the social work conference. There are networkings sessions there that will provide an opportunity to talk about the COEWH. She also said there is a leadership conference at the Waterfront Place Hotel April 17-18, where President Hardesty will be a speaker. The West Virginia chapter of the American College of Surgeons is meeting at the Greenbrier May 11-12.

Lynne Ryan will check on getting information to the health fair at the Morgantown Mall. The state WIC conference is September 12-13 in Charleston, and it might be possible for the COEWH to be part of this.

Elaine Bowen reported on the Body Works training program that will be in Morgantown April 24 to train volunteers to offer this program for mothers and pre-teen daughters to work together to make changes and empower each other.

Elaine Bowen reported on Love Your Heart Talks training The Love Your Heart talks and the Heart of the Mountain video that Sharon Brinkman Windle and Elaine Bowen produced could be available on our COEWH web site. The West Virginia Library Commission is sending the video to 173 libraries, along with an information packet.

Continuing Education Units

There was a general discussion of how we might provide continuing education units and continuing medical education units, perhaps using the RHEP system. Barb Kupchak will be approving these units for nurses, beginning in April, and she said they are always looking for offerings as nurses need 30 units every 2 years. There seems to be a particular need for ethics units, so Barb Howe will contact Mark Wicclair, who teaches health care ethics, to see if he can offer any of these programs. Lynne Ryan offers a standard breast-feeding class to pediatrics residents and students, and maybe this could be offered more widely.

Programs can be offered via video or web streaming. They just have to meet objectives and have content. There are companies making money offering these programs. Home study courses could cost \$30/CEU.

Sam Hickman and Betsy Kent approve the CEUS for social workers through the WV chapter of the NASW. The e-mail address is naswvv@aol.com.

Jean Ann Johnson approves CEUs for counselors through the board of examiners for counselors. Some companies are not approved to offer CEUs to counselors because they do not act in ethical ways. If the organization is approved by the national counseling board, then anything they offer can be approved for CEUs, so maybe the COEWH could be a certified provider of CEUs.

The meeting adjourned with a discussion of the next meeting being in Charleston on May 22 in conjunction with the Mountains of Hope meetings at that time.

5. Provide outreach to students in high and middle schools across the state

- We will explore ways to collaborate with the Girl Scout, 4-H, the Association for Women in Science's Expanding Your Horizons Program, and other events. We have publicized the Body Works training program on April 24 to local Girl Scout leaders.

6. Work with Regional Women's Health Coordinators and State Women's Health Coordinators and the Minority Women's Health Panel of Experts to reach underserved women in WV

Anne Williams is co-chair of the CAB with Dr. Bowen and Dr. Howe.

7. Collaborate with other CCOEs through joint COEWH/CCOE joint projects

8. Participate actively in COE Outreach and Minority Working Groups.

Ms. Williams, Dr. Howe, and Dr. Bowen have regular conference calls to stay updated on COEWH, WVDHHR, and OWH business.

9. Demonstrate institutional commitment and policy support in the development of appropriate outreach strategies and materials, especially preventive services

- The Center for Women's Studies and Extension Service continue to pay for costs related to outreach, such as copying and postage.
- All deans sign off on their faculty's involvement when there is a commitment of time. The time commitment from the outreach co-chairs far exceeds the amount of time specified in the COEWH contract.
- All WVU faculty are expected to participate in public service. Work on the COEWH counts as part of that public service.
- The COEWH has contributed speakers to the WVU Health Sciences Center's speakers' bureau. To date, 16 people volunteered to make local and/or statewide presentations on a gamut of topics related to women's health. This will be posted on the web so the public can easily request a speaker for their programs.
- The WVU HSC News and Information Services send out publicity.
- The Center for Women's Studies pledged \$1,000 to support the series of research presentations that the research committee wishes to sponsor.
- WVU President Hardesty formed the Executive Task Force on Wellness in March 2005. Its mission is to lead and support efforts to develop and promote quality nutrition and wellness programs. Dr. Bowen serves on this task force. They created a strategic plan of action for the university and meet monthly to coordinate and collaborate on wellness activities across campus and the state. A major result of these efforts is the establishment of a new position in Human Resources to coordinate and promote university wellness programs.
- Dr. Sue Day-Perroots, dean of WVU extended learning invited Associate Provost Cheryl Torsney, Dr. Howe and Ruth Kershner to join a team to provide services to the new Secure Female Facility of the Bureau of Prisons in Hazelton, West Virginia. Prison staff want inmate programs on parenting, nutrition, stress management, and health care. The Bureau of Prisons approved WVU's plan and is awaiting funding approval to provide these services. These may include on-line

courses, classes taught at the prison and short certificate courses such as first aid. Anne Cather expects to involve medical students in this outreach effort as part of their community service requirement.

The WVU outreach committee includes:

1. Amy Allen, MA, MS, CHES, Project Director, Cancer Information Service
2. Sharon Brinkman-Windle, MPA, Cancer Center
3. Linda M. Carson, Ed.D. (on WV Office of Healthy Lifestyles coordinating board), Ware Distinguished Professor, Director, WV Motor Development Center, School of Physical Education
4. Kimberly Cordingly, M.A. Consultant, Job Accommodation Network
5. Ann Chester, Ph.D. Assistant Vice President for Health Sciences for Social Justice
6. Linda Cooper, Community Medicine
7. Ann Dacey, R.N. Senior Program Coordinator, Center of Excellence in Women's Health
8. Alan Ducatman MD, MS Professor and Chair, Dept of Community Medicine
9. Suzanne Gosden, M.Ed., Clinical Instructor
10. Linda Jacknowitz, MS, MLS, Mountains of Hope Cancer Network
11. Ruth Kershner, R.N., Ed.D. Community Medicine
12. Joyce McConnell, J.D., Professor of Law
13. Susan Pearce, WVU Division of Sociology
14. Leesa G. Prendergast, MS, CHES Assistant Director for Community Outreach WVU Prevention Research Center (PRC)
15. Shelia Price, DDS, Assistant Dean of Administration of Dentistry
16. Sally K. Richardson Executive Director/Associate Vice President WVU Institute for Health Policy Research, Charleston
17. Pat Smith, Cancer Information Specialist
18. Deborah Strouse, Health Education Specialist
19. Catherine Yura, Ed. D., Director, WVU Carruth Center for Counseling and Psychological Services
20. Mary Ellen Zeppuhar, Clinical Associate, WVU Center of Excellence in Disabilities

10. Integrate with other COEWH key components, i.e. recruitment for clinical trials in the community

- Betty Critch Parsons attended the CAB meeting on March 16.
- COEWH outreach co-directors attend monthly leadership meetings.
- COEWH outreach co-directors submit materials and links to the web site.
- Dr. Rashida Khakoo, COEWH professional education committee member, co-facilitates the Teaching Scholars Program.

11. Evaluate community outreach performance.

The evaluation material developed in 2005 and updated in 2006 is continuously monitored and used as guidance

Academic Leadership Component

Leadership Highlights

- The HSC Faculty Development Conference Series for Winter/Spring 2007 is ongoing and entitled "Innovation, Diversity, Leadership and Development Series."
- All Faculty Development Conference Series lectures are available through Power Point, Camtasia, and MP3 downloads.
- A salary equity study is in progress to compare academic years 04-05 and 05-06 to the 03-04 academic year benchmark data.
- Numerous female faculty have been selected for essential administrative roles within the Health Sciences Center.
- Several female faculty have applied to national (AAMC and ELAM) faculty development/leadership programs.

The Leadership component supports the development of women as leaders in:

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- Academic health centers
- Partner organizations
- Communities we service

The COEWH Leadership team continues to work closely with the well-established Women in Science and Health Committee (WISH) which has, for many years, represented women's interests at the Health Sciences Center and offered mentoring and development programs focused on women students, residents and faculty. In addition, COEWH maintains a close association with the Faculty Development Committee and with the Teaching Scholars Program, both of which provide a broad range of mentorship and leadership training opportunities. The Leadership Director, Maria Kolar, is a member of the WISH committee, and WISH members serve as the COEWH Leadership team. This working partnership has been effective for both WISH and the COEWH in terms of institutional visibility and credibility for both organizations. The WISH Committee continues to focus on the following:

- COEWH Leadership support (continued): potential RFP for leadership
- Salary equity survey
- Gender equity survey design, institutional support, and initiation
- Quarterly Newsletter development
- Expansion of Women's Leadership efforts to include other WVU campuses and all of West Virginia
- Concierge resources for faculty & family
- Participation in regional or National mentoring program for women
- HSTA mentoring
- Introduction to Health Sciences Students
- Nomination of WVU women for national leadership awards and development programs

a. Recruitment, retention, and promotion of women in the health care professions:

The Leadership team thus far has focused on three areas that we see as critical to explore before creating a specific mentoring and leadership development plan:

1. Assessing leadership programs and activities already in place across the Health Sciences to find both overlaps and gaps and to assist people to network more effectively in the development of leadership programs.

As a result of a query of members of the committee who play significant leadership roles in each of the HSC schools and, we have compiled a list of important leadership events and opportunities for women across the Health Sciences. Of particular note is "The Faculty Development Conference Series." The Winter/Spring 2007 Conference Series entitled "Innovation, Diversity, Leadership and Development Series" has included the following topics: Increasing Diversity Among Health Care Professional Students; Myths, Magic, and the Real McCoy: Insights into Rural and Appalachian Culture; Sociolinguistics for the Medical Community; Cultural Competency in Clinical Care; A Respectful Learning Environment: Avoiding Student Mistreatment; and Balancing Your Personal and Professional Lives. Three additional conference series devoted to 3 areas (Leadership and Management, Enhancing Learning through Innovation in Education, and Enhancing Research in Scholarship) have already occurred. The Leadership and Management Series included the following titles: Conflict Resolution, Understanding HSC Financial Statements, Developing an Executive Vision, Chairing/Running Effective Meetings, HSC Finances- Understanding Budgets, Leadership from Within, Unleashing Creativity and Innovation, Team Building, Strategic Thinking/Planning, and Running a Search Committee. A second series on Leadership included the following titles: Diversity: Creating an Inclusive Environment, Building and Sustaining Teams, Running a Search Committee, Setting Goals for Professional Development, Strategic Thinking, Organizational Skills and Time Management, Chairing/Running Effective Meetings, and HSC Finances: Understanding Budgets. As of 11/06, these conferences have been recorded and placed on our CoEWH and Faculty Development websites. As of March, 2007, all presentations listed on the website include Power Point presentations, Camtasia Flash video recordings, and Download MP3 options. This allows anyone several venues to access these presentations at their own convenience, thus increasing the spread of this information to a larger population of students and faculty.

The second annual Women of the Water Retreat was held and included many topics of discussion regarding Leadership. A new Women's Lecture series is planned and will bring leadership topics to not only the academic community but also to the community at large as an educational offering.

A subcommittee of the Leadership committee is building a Leadership/Opportunity page for our website that will also link to the WISH website, which keeps an updated list of conferences and educational advancement opportunities for women. A comprehensive Women's Resource List has been created by COEWH. The list is updated as new resources are identified.

2. Reviewing recent studies of salary equity and diversity and determining what, if any, baseline data is available from which to build our new surveys.

As a result of a March 2005 meeting with all the Deans of the Health Sciences schools, we received the support of all four Deans and the VP, Health Sciences to proceed with a salary equity survey. Review of earlier data made it clear that a review of contract data alone would not provide the information needed for a fully descriptive, comprehensive compensation survey since much of the gap in compensation occurs as people take on roles that are incentives or covered by non-contract funding. The Dean pledged his full support. COEWH leadership developed a proposal to move this project forward and has presented it to the Dean of the Medical School. The other Deans were willing to share their salary information as long as it is pooled in any reports made to protect individual confidentiality, as their faculties are much smaller than the medical school. The Dean of the School of Medicine directed the Associate Dean of Administration and Finance to work with our committee. The committee met bi-monthly with the Associate Dean of Administration and Finance and the data from the Academic Year 03-04 was obtained and reviewed – See f for findings. Additional meetings continue to occur. Data is now being analyzed for the 2004-05 and 2005-06 academic years.

3. We are in the process of exploring existing policies and attitudes regarding recruitment, retention and promotion of women faculty and leaders

After our initial investigative work, we determined that it was important to conduct a thorough climate survey of the HSC. A joint WISH-COEWH task, chaired by Kathy Rosen, M.D., who was the Chair of WISH developed a climate survey instrument and partnered with researchers who are planning to conduct the survey and publish the results. The climate survey was developed by a researcher in the WVU Social Work Department in collaboration with a researcher in the School of Pharmacy.

Kathy Rosen, M.D. has left the University. Linda Von-Davis has replaced Kathy Rosen. The survey instrument was delivered to the HSC VP for review and comment. The committee reviewed the comments and suggestions of the HSC VP, as the developed survey did not appear to be the desired instrument. Alternative survey instruments will be considered.

b. Recruitment of diverse students in women's health.

Both the Medical School and the Dental School have active programs to engage minority students in studying science and becoming interested in the health professions starting in 8th grade. We have talked to the leadership of both of these programs about using them as a model for the other health professions, or incorporating the other health professions at some point in the decision matrix for their students learning about health careers.

- Technology in Delivery of Leadership activities. The Health Sciences Center Teaching Scholars Program, which is a yearlong program for junior faculty across all health sciences programs identified as future leaders The Teaching Scholars Program, is ongoing. While this was an on-campus institute, it included sessions on the use of technology and discussion of the plan to establish a Virtual Leadership Institute. The Virtual Institute will then be offered nationally. A committee has been formed to use what was learned from participants in the summer institute and our experience with the on-line Teaching Scholars Program to develop the Virtual Institute.

- Integration. The directors of the four working groups meet regularly and continually discuss ways to work together to meet mutual goals.
- Attraction and retention of diverse students will be on the agenda of items talked about at the leadership institute. This issue is important to the leadership of the HSC and is on the radar screen. We will discuss ways to enhance institutional efforts in this regard.

c. Recruitment of diverse faculty of Departmental Chairs, Deans and upper level university positions

The WISH committee has as one of its primary goals the support of recruiting and retaining diverse faculty so that a diverse pool of qualified emerging leaders is available when important leadership openings occur. At this time, the internal pool is relatively shallow. West Virginia University salaries hover just below 50% of the national average, and WVU loses many highly qualified diverse faculties to other institutions in mid-career. In addition, the competition for highly qualified diverse leadership candidates is fierce and WVU loses good external candidates because of salary limitations as well. It is our hope that our salary equity and climate surveys bring this issue to the foreground for leadership within the university and at the State level so that we may begin to change policy internally to attract reward and retain highly qualified people. The COEWH designation is a plus in this regard as it provides both an additional incentive for action and an opportunity to attract good candidates.

This issue was discussed in our meeting with the Deans. The focus of the institution is on attracting quality candidates and filling positions. Positions here often go unfilled for longer than at other institutions because of where WVU falls in the national salary levels. We will continue to work with the leadership in this area and we feel that the outcome of the salary and compensation surveys and an ongoing dialogue on the opportunities they present for institutional change will begin to address the diversity issue.

Lists are compiled of people serving in leadership positions and on faculty committees, both appointed and voluntary, across the Health Sciences to determine if there are patterns of diversity or if there are gaps that should be filled. This information will be integrated with the salary and climate information when we present it. It will serve as a baseline against which to measure progress.

Several important announcements/changes have occurred this academic year in regard to Health Sciences Center Leadership. John Prescott, M.D. continues in his role as Dean, School of Medicine. Patricia Chase, Ph.D. became Dean, School of Pharmacy on July 1, 2006. Georgia Narsavage, Ph.D., APRN, FAAN will become Dean of Nursing on July 1, 2007 replacing E. Jane Martin, Ph.D., APRN, FAAN. Louise Veselicky, DDS, MDS, MEd has been appointed Interim Dean, School of Dentistry. Robert D'Alessandri, M.D. will step down as Vice President for Health Sciences in May 2007 and Fred Butcher, Ph.D. will become Interim Vice President for Health Sciences.

d. Retention of diverse faculty

See c. above. The Dean of the Medical School, who assumed that position in July 2004, has made a clear commitment to retaining diverse faculty. He informed the COEWH leadership that he had met with the Social Justice Officer for WVU to begin a dialogue to introduce aggressive strategies to create and promote increasing diversity.

e. Promotion of diverse faculty

See c. and d. above. This is part of the WISH committee's agenda. The committee is compiling a list of female and minority faculty and gathering CV's and tracking accomplishments with the goal of recommending people for honors, special courses (such as the AAMC's ELAM course, or university-sponsored leadership opportunities.) Working with CoEWH, WISH plans to make a concerted effort to see that promising diverse faculty is brought to the forefront of opportunities as they arise.

Noteworthy 2006-07 accomplishments in the promotion of women faculty include: (1) the selection of Aina Puce, PhD to the 2006-07 Executive Leadership in Academic Medicine (ELAM) Program, (2) the announcement that Hilda Heady, Associate Vice President for Rural Health, received the 2006 President's

Award from the National Rural Health Association, (3) the selection of Anne Cronin, Associate Professor of Occupational Medicine, for a Fulbright Senior Specialists Project; (4) Jennifer Molano, M.D., a neurology resident has been appointed to the AAN Education Committee; (5) Rashida Khakoo, M.D. was named a recipient of the WV Governor's 2007 Civil Rights Day Award and also received a "Living the Dream" award from the WV Martin Luther King Jr. Holiday Commission; (6) Alison Wilson, M.D., was appointed Director of the Jon Michael Moore Trauma Center of WVU Hospitals, and (7) Rebecca Schmidt, M.D. won the WVU Heebink Award for Service.

In addition, Dr. Barbara Ducatman was selected by the Dean, School of Medicine to apply to the ELAM Program. Doctors Alison Wilson, Heather Clawges, and Leslie Cottrell have submitted applications to the AAMC Early Career Women in Medicine Professional Development Program.

Additionally, an annual award entitled "Women in Science and Health Excellence Award" established in 2006 was awarded to Rashida Khakoo, M.D.. This award recognizes a woman whose career achievements demonstrate excellence in research, education, mentorship, or leadership. This award includes \$2,500 honorarium and is sponsored by the Women in Science and Health Committee and our COEWH. Funding is provided by the WISH Committee and the Robert C. Byrd Health Sciences Center.

Lastly, WVU will serve as a site for the traveling exhibit entitled "Changing the Face of Medicine: Celebrating America's Women Physicians." With this event will be the presentation to a female WVU School of Medicine graduate of an award entitled: WVU HSC: Living Legends Changing the Face of Medicine."

f. Salary equity for diverse faculty

A salary equity study was completed on the School of Medicine 2003-2004 Academic Year data. This database included all MD and doctoral faculty and excluded those with major administrative roles, all <.53 FTE (benefits eligible) and all with degrees at the Master's level. This data set was chosen to allow comparisons to the most recently available AAMC data. Data obtained on each faculty member included: gender, department, degree, rank, years at current rank, salary (base and base + incentives) and clinical productivity (wRVU's). Comparisons were then made in reference to gender; base vs AAMC 25th and 50th percentile salaries; salary versus years at current rank; and salary versus clinical productivity. Using standard deviations as the means of statistical analysis there were no significant differences, patterns or trends among men and women. However, outliers were identified among both men and women that will likely require additional information or salary adjustments. More importantly, this initial analysis will serve as the baseline benchmark for comparisons to be made over time.

School of Medicine salary information for the 7/04 – 6/05 and 7/05-6/06 academic years has been gathered. AAMC for the corresponding academic year has also become available. Meetings have been held to begin data analysis for this next ongoing salary equity study. Results from academic year 03/04 will be compared to 04/05 and 05/06. Plans to study all HSC schools continue.

Lastly, the WVU College of Law in conjunction with the Women's Law Caucus presented an open panel discussion on pay equity with national, state, and university representation.

g. Development and implementation of a "Mentoring Plan for Diverse Faculty and students in Women's Health"

Once we complete the information-gathering process described earlier in the report, additional work will occur in this area of focus. Pieces of the mentoring plan are already in place, as the Virtual Leadership committee is currently meeting to plan this on-line opportunity, and the Skills Bank program is being expanded to include more opportunities and match more mentor-mentee pairs.

h. Technology in delivery of leadership activities

The Teaching Scholars Program, of which 54% of the faculties served are women, is offered on-line. Although the scholars meet, most of the information, background reading, exercises and group discussion for this program now takes place on-line. In 2006, this program will be further developed into a Virtual Leadership Institute.

i. Institutional commitment

The Vice President for Health Sciences and all the Deans have demonstrated significant support and enthusiasm for the COEWH. Leaders from across the Health Sciences, from WVU Hospitals, and from across the WVU campus attended our recent site visit and continue to be responsive and available to us as we make requests for information or assistance. The Institution is proud of the COEWH designation and has offered considerable in-kind support for many of our efforts.

j. Integration

The Leadership committee will continue to work with Outreach as programs are developed in response to community leadership needs. In addition, the Leadership programs that are geared to promising students will build connections with the Research group to provide opportunities for students to participate in and learn from research projects. Leadership offerings, such as the Faculty Development Leadership series and the Teaching Scholars Leadership module, offered for one month each year, reach across all disciplines.

Evaluation

The evaluation material developed in 2005 and updated in 2006 is continuously monitored and used as guidance.

CoEWH Leadership Committee members are as follows:

- Ann Chester, PhD, Assistant HSC VP for Social Justice

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- Anne Cronin, OT, PhD, Associate Professor
Elizabeth Critch Parsons, MBA, CoEWH
- Linda Vona-Davis, PhD, WISH Committee Chairman
- Barbara Ducatman, MD, Chair Department of Pathology
- Hilda Heady, Associate HSC VP for Rural Health
- Rashida Khakoo, MD, Assistant HSC VP for Faculty Development
- Maria Kolar, MD, Associate Dean for VA Affairs
- Susan McCrone, RN, PhD, School of Nursing
- Shelia Price, DDS, Associate Dean School of Dentistry
- Aina Puce, PhD, Professor of Radiology
- Judith Sedgeman, Director Center on Innate Health

Evaluation Committee

West Virginia University Robert C. Byrd Health Sciences National Center of Excellence in Women's Health is using a series of evaluation matrices to document Center activities and accomplishments. Initial evaluation efforts began with the creation and later revision of the logic model. Using the logic model as a guide, the evaluation group met with each component to develop a component-specific evaluation matrix. Over the previous year, the evaluation matrix for each component has been refined and updated to reflect objectives, activities to achieve the objectives, and the status of each activity. Activities are categorized as follows:

- **Complete:** The activity is has been successfully completed. Proof of why the activity is complete is included in the discussion.
- **Cancelled:** COEWH decided not to do the activity. The discussion explains why the activity was cancelled.
- **Planned:** COEWH had said we would do this activity, but hasn't yet. COEWH still plans to conduct the activity at some specific time in the future. The discussion explains why and specifies when.
- **Deferred:** COEWH has postponed this activity to an unspecified time in the future. The discussion explains why.
- **In Progress:** The activity has been started, but is not yet complete. The discussion explains when the activity is expected to be complete.
- **Ongoing:** The activity is something that COEWH does on a regular basis, e.g. hold meetings.

In addition to the status of activities, each component's matrix incorporates the performance requirements specified by the Office of Women's Health contract. The evaluation committee has continued to work with each component of the CoEWH to ensure that evaluation strategies include a mix of quantitative and qualitative methods, and capture both process and outcome measures. Our logic model in conjunction with the performance requirements of the contract with the OWH drove work plan activities, and continues to shape evaluation efforts.

Information Technology – Web committee

The Information Technology committee supports the activities of the CoEWH and is woven through all the components. It is the goal of the CoEWH that our web serve as the number one resource for Women's Health in the State. Through the use of our web site we help to create awareness of Health Issues among the public in general and women in particular. We provide links to wellness promotion and disease prevention information and resources. These links are continually updated. Web Tools such as SOLE portal (a secure on-line learning environment at WVU for students, faculty and guests), is used for dissemination of health-related information. Our Web Site address www.wvhealthywomen.org portrays our vision and mission. We have re-designed the Web Site and the homepage displays a new banner with a portrait of 3 generations of women, again emphasizing our mission of serving women from all spectrums of life. The site is in compliance with Section 504 of the Rehabilitation Act to provide reasonable accommodations for people with disabilities, which is required of Universities receiving federal contracts. As always, IT strives to integrate the activities of the major components of this Center: Community Outreach, Leadership, Professional Education, Clinical Care and Research.

Accessibility: We are reaching more people, becoming more visible. Our COEWH Web Site is displayed among the top 10 using National Search Engines like Google and Yahoo and employing keywords as 'women's health' and 'West Virginia University'. One can access the site using our local search engines for West Virginia University (www.wvu.edu) and WVU Health Sciences Center (www.hsc.wvu.edu). Also, WVU School of Medicine as well as Ruby Hospital sites have provided a link to our site. We are cross-linked with West Virginia Women's Commission, West Virginia Department of Health and Human Services (WVDHHS) and other state agencies involved in the delivery of healthcare. Our site is also accessible from the national COE list. The Center's Multi-Disciplinary Clinic physicians are accessible by names as well as by specialty (Women's Health) from the Ruby Hospital Healthcare Web Site. (<http://www.health.wvu.edu/>)

The traffic logs that we have set up, indicate that the number of visitors have been increasing steadily. For this quarter ended there were 56901 hits. There are also 73 International visitors. Countries showing representation are: Australia, Austria, Canada, China, European Union, Germany, Hong Kong, Islamic Republic of Iran, Italy, Japan, Korea, Lithuania, Netherland, Norway, Portugal, Sweden, Switzerland, Taiwan, Thailand, Turkey, Ukraine and United Kingdom. This traffic increased this quarter.

Patient Information: Patients have access to Multidisciplinary Clinic and Stroke Clinic and a flow chart of Multidisciplinary Clinics has also been posted. Directions to the clinic, hours of operation, contact information and physician profiles have been provided. Physician Profiles have direct link to Ruby hospital Web Site. Other patient resources include links to the Cancer Center Site, a Local Health Department Map searchable by County, Rural Health Program Locations, and Clinical Trial Information.

Community Outreach events have a great presence on our web especially with wellness material. The Event Calendar lists important national, state and local events.

The state of WV has had a long-term commitment to the people of the state in terms of education and health care. To this end the state, the institutions of higher learning and private agency have teamed together to offer health care students learning experiences in rural areas (Rural Health Education Partnerships – RHEP). Today all health professions students are required to experience a 3-month rural clinic rotation in a community clinic/agency as a facet of their education. In addition to course learning requirements, students are expected to complete a service-learning project aimed at serving the people and agency in which their rural rotation is assigned. Because students must continue with University/College coursework while in their rural site, a sophisticated information technology network has been established in WV. The assorted health care professions utilize a variety of web casting modalities to educate both students and the public. For example, the School of Medicine delivers education not only to medical students but provides education and consultation to health professionals across the state via Mountaineer Doctor Television (MDTV). MDTV currently delivers services to 19 distant sites and two service providers in WV, MD, and OH. Because community education is a growing emphasis, live web casting and MDTV are utilized to educate EMS providers, facilitate patient support groups such as diabetes support groups, and provide professional continuing education opportunities in the communities. A wide variety of continuing education programs in topics of interest in women's health and intended for web broadcasting are now available or under development.

The IT group will enhance the Professional Education by supporting its use of Distant Education Technology. The program functions as a platform to utilize this technology to allied health students doing rural rotation. We will be posting links to all faculty development seminars on our web in the next quarter.

The IT will provide solutions to Research Infrastructure in terms of identification, organization and funding. Research page of our site has links to Women's Health Research Newsletter, National Research Coordinating Center, National Funding Opportunities, WVU Health Research Initiatives and Funding opportunities.

The IT group will continue to provide the necessary support to Evaluation group in terms of Data Collection and Analysis.

Our Web Site is a continually evolving dynamic platform with information updates. It reflects the current and future changes occurring in the five components of COEWH and acts in a supportive role. The Web Site is user-friendly, accessible to ALL populations and is a source of Health-Related Information.

Attachments and or web links:

1. Biography Margaret Moore
2. Elizabeth DuRant, Nan S. Leslie, March 2007 The Journal for Nurse Practitioners Article
3. West Virginia Perinatal Wellness Study http://wvhealthykids.org/p_wellness/pw_home.htm
4. WVU HSC Faculty, Staff and Community Development opportunities
5. Baseline Counts
6. Billable Hours
7. Women on Wellness Lecture Sample Notification