



Women's Health Initiative Clinical Trial and Observational Study

Annual Progress Report

September 1, 1995 to August 31, 1996

Prepared by
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WHI Annual Progress Report

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Executive Summary

The Women's Health Initiative (WHI) Clinical Trial and Observational Study (OS) was put into the field on September 1, 1993. Vanguard Clinical Centers (VCCs) began recruitment into the Clinical Trial (CT) component at that time. The OS proceeded upon receipt of OMB approval, and was officially opened for enrollment on September 1, 1994. The 24 new Clinical Centers (NCCs) were named in September 1994. Recruitment for both the CT and OS was officially opened for NCCs on February 1, 1995.

As of August 31, 1996, 32,406 women had been randomized into the CT, representing 11,692 Hormone Replacement Therapy (HRT) randomizations (71% of cumulative goal) and 24,636 Dietary Modification (DM) randomizations (85% of cumulative goal). Randomizations into the Calcium and Vitamin D (CaD) component, designed to occur at a CT participant's first annual follow-up visit, began on June 15, 1995, in VCCs and in February 1996 for NCCs. At this time, 7,390 women have been randomized (67% of cumulative design-based goal). In addition, 42,899 women have be enrolled in the OS.

There has been a concerted effort on the part of CCs with assistance from the Performance Monitoring Committee (PMC) to address recruitment lags. The past six months showed considerable improvement in the overall goals in both VCCs and NCCs. Continued performance at this level will allow us to complete recruitment essentially on schedule for DM and with only a short extension for HRT.

The age distribution has seen a small shift to older age groups. Closing younger age cells to further recruitment on a clinic by clinic basis is beginning to have its impact particularly in VCCs. We anticipate that this approach will eventually give the appropriate balance of women in each age group as it is applied to additional clinics. Minority recruitment has increased and is currently at 18% for the CT.

First year follow-up data indicate that VCCs have conducted 95% of the six month follow-up contacts, 94% of the first annual visit, 89% of the second semi-annual contact, and 90% of the second annual visit. Year 3 visits are now underway at VCCs. Approximately 1% of women have missed two or more consecutive contacts and 1% of randomized women have stopped the usual follow-up procedures.

Adherence to the HRT study appears at this early state to be slightly lower than original projections. Approximately 9.5% of HRT women have discontinued study hormones after an average of approximately 12.4 months on study. Adherence to HRT medications at the first annual visit is between 73% and 85% (defined as percent taking at least 80% of pills). At the second annual visit adherence is between 63% and 85%. Reports of symptoms are common at routine contacts during the first year on study. The HRT Advisory Committee is discussing additional methods of managing these symptoms while encouraging adherence.

Intervention activities in the DM study are progressing well. Process measures of attendance at group sessions, completion of self-monitoring activities and self-reported scores for nutrient intake

suggest that the DM Intervention women are able to follow the intervention program. As noted in the previous report the dietary assessment data available indicate that the baseline percent calories from fat averages based on food records is lower than anticipated (about 34%) and accordingly that the delta achieved at one year is smaller than anticipated (11%). DM Intervention women appear to be meeting or even surpassing their goals for limiting fat intake based on the self-monitoring tools. The analysis of the one year Food Frequency Questionnaires and food records indicate that Intervention women are consuming approximately 23% of energy from fat, as compared to the design value of 21.7%. Thus the Intervention is providing results quite close to target and so the smaller delta is a result of the lower level of fat intake in the controls. In September 1995, the self-monitoring goals were adjusted in an attempt to help achieve the desired intervention effect. Early data suggest this change may increase the delta to about 12% at one year. Further monitoring of this value as well as additional focus on long-term adherence for all and additional assistance for minority women in the Intervention is needed.

Recruitment and adherence in the CaD component has been lower than originally projected. Between 56% and 75% of CT women are entering this component with a likely value in the neighborhood of 65%. Power calculations indicate that a reduction in sample size of this magnitude would not endanger our ability to test the hip fracture and other fractures hypotheses however. Adherence to study supplements is of greater concern as it is clearly lower than expected (with a drop-out rate of 7.9% or 7 months of follow-up on average and a medication rate between 46% and 58% at 6 months post-randomization). The CaD Advisory Committee has recommended several steps to address this, which are being implemented. The effect of these efforts should be available in our next report.

The procedures for documentation and local adjudication of outcomes have been implemented. Central adjudication activities are underway. Listings of outcomes shown in this report are primarily self-reported events. A brief summary of locally adjudicated outcomes is provided. These data are still limited and formal comparisons are not presented here because of their tentative nature.

Current experience indicates some departures from design assumptions particularly for accrual rates, age distribution and early adherence to interventions. A limited examination of study power sensitivity presented previously indicated that these individual deviations cause small reductions in study power (2-3%). Collectively their effects may require some additional design changes if other corrective maneuvers are not successful.

The CC performance monitoring, as previously described, has received considerable attention. The PMC consisting of representatives of the NIH Project Office, the Clinical Coordination Center (CCC) and the Clinical Facilitation Center (Bowman Gray School of Medicine) has been actively reviewing clinic performance, and providing feedback and assistance where appropriate. The focus of these efforts is turning from recruitment toward follow-up and adherence issues. The activities of this Committee are described in this report. A listing of approved publications and of submitted ancillary study proposals is also included.

1. Preliminary Remarks

This report documents study activities of the Women's Health Initiative (WHI) Clinical Trial (CT) and Observational Study (OS) during the period September 1, 1995 to August 31, 1996 as well as the cumulative experience. Topics include recruitment, follow-up, intervention monitoring, safety, outcomes, data quality, study timeline, design related issues and related scientific efforts. Updates are provided for each CT component (Hormone Replacement Therapy [HRT], Dietary Modification [DM], and Calcium and Vitamin D [CaD]).

During this period, major emphases included:

- Recruitment into the CT.
- Consideration and preparation for the end of the recruitment period for VCCs without enhanced recruitment.
- Retention and adherence to all CT components.
- Further implementation and tuning of outcomes procedures.
- Continued work by the Performance Monitoring Committee (PMC) to review CC performance and provide assistance where appropriate.
- Initial analyses of baseline data for twelve papers.

All reports summarize Clinical Center (CC) data provided to the CCC by August 31, 1996. Except for the reports of adverse effects, all data presented are derived from WHILMA, the study database. Data managed in WHILMA are those defined by standardized data collection procedures and instruments (see WHI Manuals, Vol. 2 - Procedures and Vol. 3 - Forms).

Table 1.1 - Database Abbreviations for WHI CCs displays the abbreviations used in database reports to identify CCs. Other organizations providing data to this report are:

- McKesson (formerly Ogden) BioServices, Rockville, Maryland, CCC subcontractor for specimen repository and drug distribution (Harrison Hoppes, PhD, President).
- Epicare, Bowman Gray School of Medicine, Winston-Salem, North Carolina (formerly Epicore, located at University of Alberta, Alberta, Ontario) CCC subcontractor for central reading of electrocardiograms (Pentti Rautaharju, MD, Principal Investigator).
- University of California, San Francisco, CCC subcontractor for central reading of bone densitometry (Steven Cummings, MD, Principal Investigator).

We note that Dr. Valery Miller, Principal Investigator of the NCC at George Washington University, retired in April 1996. Dr. Judith Hsia, previously a Co-Principal Investigator, has assumed the leadership role for this site. We thank Dr. Miller for her work in establishing this site and assuring its excellent start-up.

Table 1.1 Database Abbreviations for WHI CCs

| Abbreviation | CC Institution and Location | Principal Investigator |
|------------------|---|----------------------------|
| Vanguard Clinica | al Centers (VCCs): | |
| ATLANTA | Emory University Atlanta (Decatur), Georgia | Dallas Hall, MD |
| BIRMING | University of Alabama at Birmingham Birmingham, Alabama | Albert Oberman, MD MPH |
| BOWMAN | Bowman Gray School of Medicine Winston-Salem(Greensboro), North Carolina | Gregory Burke, MD MS |
| BRIGHAM | Brigham and Women's Hospital Boston (Chestnut Hill), Massachusetts | Joann Manson, MD DrPH |
| BUFFALO | State University of New York, Buffalo Buffalo, New York | Maurizio Trevisan, MD MS |
| CHICAGO | Northwestern University Chicago and Evanston, Illinois | Philip Greenland, MD |
| IOWACITY | University of Iowa Iowa City and Bettendorf, Iowa | Robert Wallace, MD |
| LAJOLLA | University of California, San Diego La Jolla and Chula Vista, California | Robert Langer, MD MPH |
| MEMPHIS | University of Tennessee Memphis, Tennessee | William Applegate, MD |
| MINNEAPO | University of Minnesota Minneapolis, Minnesota | Richard Grimm, MD |
| NEWARK | University of Medicine and Dentistry Newark, New Jersey | Norman Lassar, MD PhD |
| PAWTUCK | Memorial Hospital of Rhode Island Pawtucket, Rhode Island | Annalouise Assaf, PhD |
| PITTSBUR | University of Pittsburgh Pittsburgh, Pennsylvania | Lewis Kuller, MD DrPH |
| SEATTLE | Fred Hutchinson Cancer Research Center Seattle, Washington | Maureen Henderson, MD DrPH |
| TUCSON | University of Arizona Tuscon and Phoenix, Arizona | Cheryl Ritenbaugh, PhD |
| UCDAVIS | University of California, Davis Sacramento, California | John Robbins, MD |
| | | |

Table 1.1 (continued) Database Abbreviations for WHI CCs

| Abbreviation | CC Institution and Location | Principal Investigator |
|------------------|--|-------------------------|
| New Clinical Cer | nters (NCCs): | |
| CHAPHILL | University of North Carolina at Chapel Hill Chapel Hill, North Carolina | David Sheps, MD MSPH |
| CHI-RUSH | Rush Presbyterian- St. Lukes Medical Center and Cook County Hospital Chicago, Illinois | Henry Black, MD |
| CINCINNA | University of Cincinnati Cincinnati, Ohio | James Liu, MD |
| COLUMBUS | Ohio State University Columbus, Ohio | Rebecca Jackson, MD |
| DETROIT | Wayne State University Detroit, Michigan | Susan Hendrix, DO |
| GAINESVI | University of Florida Gainseville and Jacksonville, Florida | Marian Limacher, MD |
| GWU-DC | George Washington University Washington, DC | Judith Hsia, MD |
| HONOLULU | University of Hawaii Honolulu, Hawaii | David Curb, MD |
| HOUSTON | Baylor College of Medicine Houston, Texas | John Foreyt, PhD |
| IRVINE | University of California, Irvine Irvine, California | Frank Meyskens, Jr., MD |
| LA | University of California, Los Angeles Los Angeles, California | Howard Judd, MD |
| MADISON | University of Wisconsin Madison, Wisconsin | Catherine Allen, PhD |
| MEDLAN | Medlantic Research Institute Washington, D.C. | Barbara Howard, PhD |
| MIAMI | University of Miami Miami, Florida | Marianna Baum, PhD |

Table 1.1 (continued) Database Abbreviations for WHI CCs

| Abbreviation | CC Institution and Location | Principal Investigator |
|---------------|---|---------------------------------|
| NCCs: (cont.) | | |
| MILWAUKE | Medical College of Wisconsin Milwaukee, Wisconsin | Jane Morley Kotchen MD MPH |
| NEVADA | University of Nevada Reno, Nevada | Sandra Daugherty, MD PhD |
| NY-CITY | Albert Einstein College of Medicine Bronx, New York | Sylvia Wassertheil-Smoller, PhD |
| OAKLAND | Kaiser Foundation Research Institute Oakland, California | Robert Hiatt, MD, PhD |
| PORTLAND | Kaiser Foundation Research Institute Portland, Oregon | Barbara Valanis, DrPH |
| SANANTON | University of Texas San Antonio, Texas | Robert Schenken, MD |
| STANFORD | Stanford University San Jose, California | Marcia Stefanick, PhD |
| STONYBRK | Research Foundation of SUNY, Stony Brook Stony Brook, NY | Dorothy Lane, MD |
| TORRANCE | University of California, Los Angeles Torrance, California | Rowan Chlebowski, MD PhD |
| WORCESTR | University of Massachusetts Worcester, Massachusetts | Judith Ockene, PhD |

2. Enrollment

2.1 Overview

Enrollment into WHI is a multistage process consisting of recruitment, screening and randomization into the CT or registration into the OS. WHI Manuals, Vol. 1 - Study Protocol and Policies, Protocol Section 5.2. - Enrollment describes the model screening process. A brief description is provided here for ease of reference. Clinical Centers may tailor the process to local needs, subject to the constraints of informed consent and pre-randomization baseline data requirements.

The initial contact is designed by each CC but is often conducted through a mass mailing, media event, or local presentation. Responding women are prescreened for basic eligibility using Form 2/3 - Eligibility Screen (self-administered format/telephone interview). Those still eligible for the HRT or DM components are invited to Screening Visit 1 (SV-1). For efficiency, many CCs ask women to complete Form 60 - Food Frequency Questionnaire (FFQ) to determine dietary eligibility prior to scheduling SV-1.

Women attending SV-1 are given an Initial Screening Consent and baseline screening and data collection activities common to all study components are conducted. Women who are no longer eligible for, or interested in, CT participation are invited to participate in the OS. Consent and additional OS data collection are completed, usually at the SV-1 or through mail contact immediately thereafter. Women still eligible for and interested in HRT or DM are given component-specific informed consent documents and are scheduled for Screening Visit 2 (SV-2).

Women attending SV-2 complete the appropriate CT consent forms and undergo the clinical procedures required of all CT participants (ECG, breast exams) as well as component specific requirements appropriate to their status (gynecological exam and run-in medication dispensing for HRT, Four-Day Food Record (4DFR) teaching for DM). Screening Visit 3 (SV-3) is scheduled after an interval of at least four weeks for HRT to allow assessment of the run-in period and to allow adequate time to obtain required laboratory results.

At SV-3, a final eligibility determination is conducted to assess all available clinical data and adherence and experience with the run-in for HRT and ability to complete the 4DFR for DM. Eligible women are randomized to HRT, DM, or both, as appropriate, at this visit.

Women who become ineligible for or disinterested in CT participation at any point in the screening process are invited to participate in the OS.

Women who are randomized to either HRT or DM and are eligible for the CaD are invited to be randomized into the CaD component, typically at the time of their first annual follow-up visit.

Limitations of this report result from the following factors: (1) CCs are free to prescreen women with locally-produced instruments and methods. They are neither obligated to report on this activity nor are there mechanisms in WHILMA to do so. (2) CCs are free to tailor their screening activities to local circumstances as described above, making exclusion rates by stage of screening variable among CCs. (3) CCs are not required to enter data on known ineligible women. This causes the

recruitment yields to be overestimated and the screening activities and exclusion rates to be underestimated.

2.2 Recruitment Goals

In the initial planning, NIH anticipated that 45 CCs would be funded in two phases. Sixteen VCCs were selected for phase one. In the second phase of competition only 24 sites were finally selected resulting in a total of 40 CCs. Recruitment goals and budgets were based on 45 clinics however, so the program is addressing this shortfall by asking existing clinics, particularly VCCs, to consider recruiting beyond the original goals. Ten VCCs have offered to do enhanced recruitment over an extended period and were awarded the additional funds to support this activity. Five NCCs have also been awarded enhanced recruitment. (See Figure 2.1 - Enhanced Recruitment Sites.) In addition, clinics having the ability to over-recruit in increments less than 25% have been encouraged to do so with assurances that budgets will be adjusted accordingly at the end of recruitment.

Two NCCs had their recruitment goals reduced: Rush Presbyterian at Chicago (to 50%) and Harbor-UCLA at Torrance (to 75%). The NIH made these changes after the assessment of the Performance Monitoring Committee that these Clinical Centers would not be able to catch up to their original goals within the defined recruitment period. In July the goals for these clinics were changed retroactively to the start of recruitment.

These combined adjustments to clinic goals provide the equivalent of 44.25 clinics recruiting into DM, 45.25 for HRT, and 44.75 for OS. It is anticipated that over-recruitment in the remaining clinics can account for a significant portion of the remaining deficits, particularly for DM.

Finally, in a continuing effort to emphasize CT recruitment over the OS, the monthly goals for OS were reduced by 35%. The reduction was calculated to reflect the yield for OS recruitment expected under the most efficient CT recruitment strategies. This change was made to reinforce the message that resources and strategies should be managed to optimize CT recruitment. While this does not represent a formal change in the overall expected enrollment of 100,000 in OS, some shortfall may or may not occur.

Figure 2.1
Enhanced Recruitment Sites

| | - | Increase | Date Initiated | Comments |
|-------------------|-----|--------------------|-------------------|--|
| Pawtucket | VCC | 75% | 4/1/95 | |
| La Jolla | VCC | 50% | 4/1/95 | Reduced minority recruitment goal to 47% overall. |
| Brigham & Women's | VCC | 50% | 4/1/95 | |
| Minneapolis | VCC | 25% | 4/1/95 | |
| Memphis | VCC | 25% | 4/1/95 | Offered additional minority recruitment to 26% overall. |
| Birmingham | VCC | 25% | 4/1/95 | Continued minority recruitment goal of 60%. Bone Density measures not required on additional participants. |
| Tuscon | VCC | 25% | 12/1/95 | Reduced minority recruitment goals to 52% overall. |
| Atlanta | VCC | 25% | 5/1/96 | Reduced minority recruitment goals to 52% overall. |
| Iowa | VCC | 100% HRT 50% OS | 5/1/96 | |
| Cincinnati | NCC | 25% | 5/1/96 | |
| Gainesville | NCC | 25% | 5/1/96 | |
| Stanford | NCC | 25% | 5/1/96 | |
| Houston | NCC | 50% | 5/1/96 | |
| Newark | VCC | 50% | 5/1/96 | |
| New York City | NCC | 25% | 5/1/96 | |

2.3 Progress

VCC recruitment into the CT officially opened September 1, 1993. OS enrollment at VCCs was delayed until September 1, 1994 at which time the study obtained clearance from the Office of Management and Budget to begin OS accrual. Recruitment into both the CT and OS components officially began in NCCs on February 1, 1995.

Figure 2.2 - Projected and Actual Randomizations at All CCs compares recruitment progress to date for all components by cumulative goals. As of August 31, 1996, 11,692 women had been randomized to HRT (71% of cumulative goal), 24,636 women had been randomized to DM (85% of goal), 7,390 participants had been randomized to CaD (67% of cumulative goal), and 42,899 enrolled into OS (131% of revised cumulative goal). In the last six months accrual has proceeded at 82% of monthly goal for HRT and 98% for DM, as compared to the 65% and 74% observed in the previous six month interval. The retroactive change in goals accounts for 1% of this increase.

Figure 2.3 - HRT and DM Randomizations per Month at VCCs (a) and NCCs (b) and Table 2.1 - Randomization Activity by Clinic Group, Study Component and Month display monthly HRT and DM randomization activities separately for VCCs(a) and NCCs(b). The pace of studywide

recruitment has increased in the last few months, particularly for DM where both VCCs and NCCs have been able to exceed their monthly goals.

VCCs as a group have averaged 260 HRT and 547 DM randomizations per month, an increase of 51 HRT and 138 DM randomizations per month over the previous six month interval. The change in VCC goals during this period was small so this represents a significant improvement in recruitment performance. The VCC monthly accrual rate is now at 75% of goal for HRT and 93% for DM as compared to the previous report of 69% and 83% respectively. The variation between clinics in achieving goals continues to be large, ranging from 59% to 109% of goal for HRT and 73% to 107% for DM. Related clinic performance issues are discussed in Section 9 - Clinical Center Performance Monitoring.

In the last six months NCCs recruited at the rate of 364 per month or 79% of their monthly goal for HRT and 708 per month or 88% of goal for DM, bringing them to 65% and 75% of the corresponding cumulative goals. This represents an 11% increase in the cumulative goals during this period. As a group, the NCCs have not yet met the monthly goal for HRT; they were able to exceed the monthly DM goals in August. If these trends continue, NCCs will be able to complete recruitment in the defined recruitment period. The variation in NCC performance is large; for HRT recruitment the range is 34% to 113% of cumulative goal; for DM the range is 36% to 98%. See Section 9 - Clinical Center Performance Monitoring for more discussion of clinic specific issues.

Recruitment into CaD began in June 1995 for VCCs and February 1996 for NCCs. Table 2.2 - CaD Randomization Activity and OS Enrollment Activity by Clinic Group and Month indicates that in this time 7390 women have been randomized to CaD (6204 in VCCs and 1186 in NCCs), 67% of the uniform accrual based design goal. This represents 56% of those who had been randomized to another CT component as of July 31, 1995 (date selected to allow one additional month for the annual follow-up visit to occur). This figure probably underestimates the true participation rate as some CCs experienced further start-up delays. We note that approximately 75% of women asked to sign a CaD consent form have agreed (see Table 2.3) though this value probably overestimates consent since the completion of Form 11 - Consent Status may not be complete for women not randomized. The CaD power calculations assume that 70% of CT participants will be accrued into CaD. These data suggest that women may be somewhat less willing to participate in this additional component than expected. The power of the CaD component is robust to rather large changes in sample size, however, so these early results should be viewed cautiously.

OS enrollment in both VCCs and NCCs has progressed well in the last year, with 42,899 women currently participating representing 131% of the revised cumulative goal. (See above discussion of recruitment goals.) The study continues to emphasize CT recruitment over OS; CCs are advised to give priority to scheduling screening visits for potential CT participants.

2.4 Exclusions

Available data on reasons for CT exclusions can be given only a limited interpretation because data entry is not required for women found to be eligible early in the screening process.

The primary reason for excluding age-eligible women from HRT is lack of interest or willingness to be randomized, accounting for approximately 79% of the HRT exclusions. Other exclusions accounting for 1% or more (where a woman can be excluded for multiple reasons) include: not postmenopausal; cancer; clinical assessment of ability to participate; logistical issues; history of DVT; extreme BMI; and recent unexplained weight loss.

The primary reason for excluding women from DM is dietary fat intake, accounting for 46% of the women excluded. Other prevalent exclusions are: lack of interest; large number of meals eaten away from home; cancer; clinical assessment of ability to participate; logistics; not postmenopausal; extreme BMI; recently unexplained weight loss; and age.

Table 2.3 - Reasons for Refusing/Revoking Consent provides further detail on reasons for refusing consent for each consent process (Screening, HRT and DM). See Form 11 - Consent Status for the list of reasons for refusing or revoking consent. (Revoking consent in this setting means the woman initially signed a consent and later decided not to participate and hence is not randomized.) Overall, 85% of women at VCCs and 86% at NCCs asked to sign the screening consent have agreed to do so; 29% and 32% of women offered HRT participation at VCCs and NCCs respectively have signed HRT consents. Similarly 61% of VCC women and 63% of NCC women offered DM participation have signed the component-specific consents. CaD consent has been signed by approximately 75% of women approached at VCCs and NCCs though this probably overestimates the proportion consenting as the data may be incomplete for women not participating in CaD.

Among those women who attend a clinic visit but do not consent to screening procedures, commonly reported reasons for not participating include personal issues, study limitations and travel issues. For both HRT and CaD the primary reasons were study limitations, treatments, and worries about symptoms, procedures or risks, and "other." For DM, personal issues, study limitations, and travel were the most frequently identified reasons. The reasons cited have remained quite consistent over time and do not vary substantially between VCCs and NCCs except for some small differences associated with changes in procedures for collecting this information.

2.5 Issues

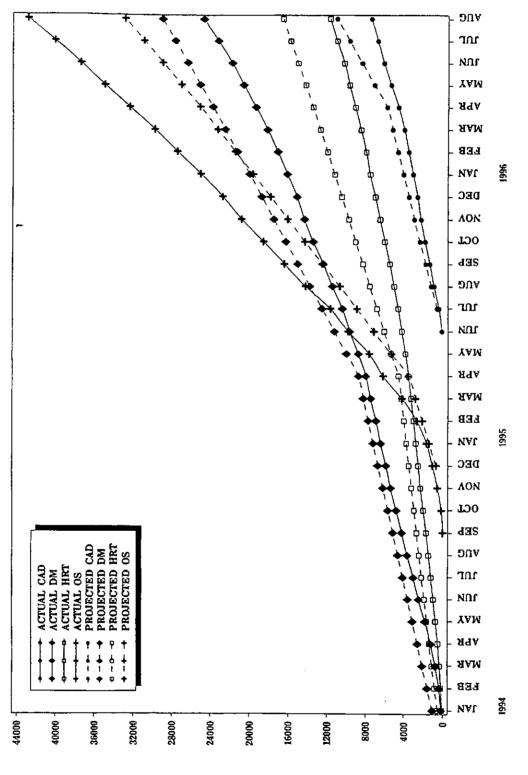
The challenges of recruiting women into WHI are large and complex. As previously reported, we face issues of identifying and attracting women into clinic, educating them in the purpose, methods, risks, and benefits of the study and the treatments involved. Clinics must conduct the recruitment effort with limited resources and sometimes with local medical community resistance to HRT, geographical constraints particularly for DM, and ambitious goals for age and ethnic minority subgroups. From the perspective of a potential study participant, WHI is complex in its multiple components and their associated entrance criteria, its many required forms and procedures, and even in its hypotheses. In particular, the objective of weighing potential benefits and risks of HRT is especially difficult to understand and possibly accept.

The differential yield and study requirements for HRT and DM have suggested that HRT recruitment could be usefully broadened to a larger catchment area. The clinics that adopted this strategy earlier showed such good results that others have been encouraged to follow suit. An informational brochure useful for HRT only recruitment was developed and recently provided to

assist in this effort. A variety of other materials such as recruitment videos and public service announcements in both English and Spanish, and guidelines and recommendations for recruiting older women have also been developed by joint efforts of several committees, the NIH, the CCC and Porter-Novelli, a public relations firm engaged by the CCC for these activities. The PMC has also provided assistance to all sites in the form of a spreadsheet designed to help manage and project recruitment and clinic activities and a "Hot Tips" booklet which listed recommendations for recruitment and clinic operations. The PMC has also visited the clinics experiencing the most serious recruitment lags to assess the situation and provide targeted assistance.

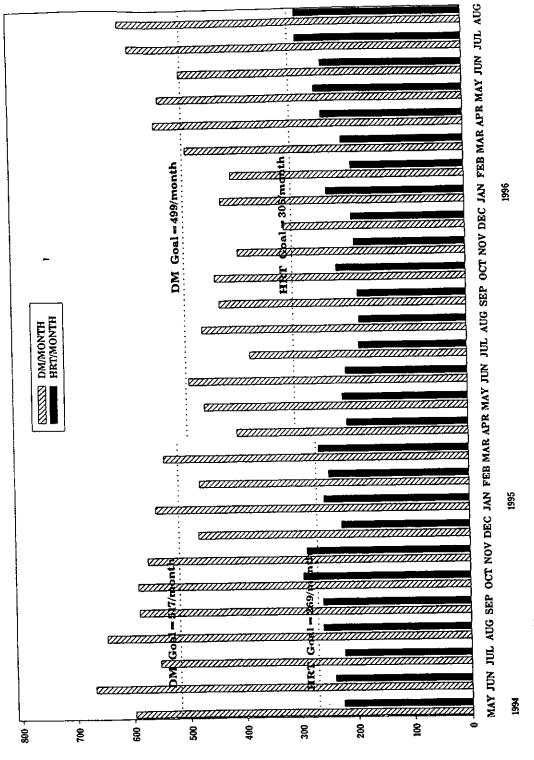
The recruitment effort continues to be a high priority of the study leadership and is discussed frequently in the governing committees. The Steering Committee discusses recruitment issues on a monthly basis. Actions taken by this committee include developing policies for closing recruitment for age cells and extending the recruitment period for HRT and for some VCCs without enhanced recruitment that have the capacity to over-recruit. If these modifications allow us to meet our monthly goals studywide for the duration of recruitment we will reach our total recruitment goals by mid-1998 (5/98 for DM and 7/98 for HRT), only a few months after the original projection.

Figure 2.2
Projected and Actual Randomizations at All CCs



Data as of August 30, 1996

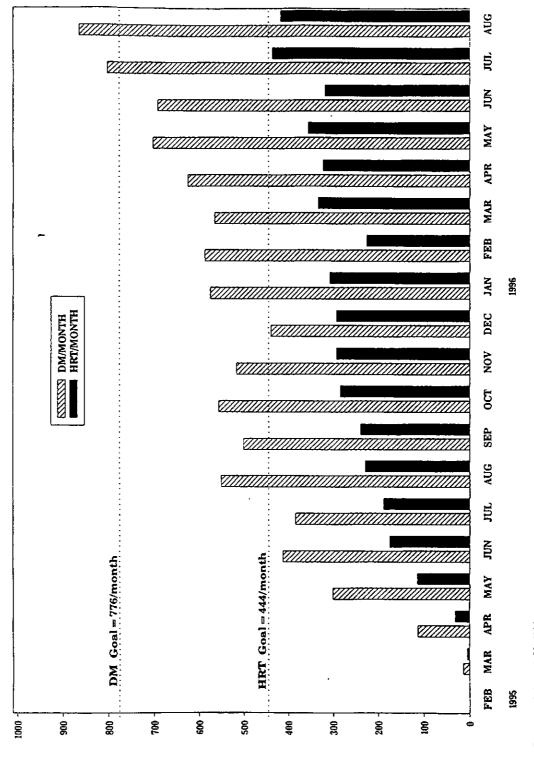
Figure 2.3a
HRT and DM Randomizations per Month at VCCs



I:VANNUALIDSMB1096\ANNUAL\ANNRPT_2:DOC

Figure 2.3b
HRT and DM Randomizations per Month at NCCs

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Data as of August 30, 1996

Table 2.1a
Randomization Activity by Clinic Group, Study Component and Month
Clinic Group: VCC
(Data As Of: 08/30/96)

| HORMONE REPLACEMENT THERAPY | ENT THERA | | | | DIET MODIFICATION | ICATION | | | Ę. | TOTAL CLINICAL TRIAL | AL TRIAL | | | | | |
|-----------------------------|-----------|--------|----------------|--------|-------------------|----------|----------|----------------|---------|----------------------|----------|--------|----------------|--------|---------|---------|
| | | 2 | RANDOMIZATIONS | NOI | | | x | RANDOMIZATIONS | TIONS | | | ĸ | RANDOMIZATIONS | TIONS | | |
| | | Cum. | | Cum. | Pct Cum | | Cum. | | Cum. | Pct Cum | t | CT CUM | CT Cum HRT/DM | HRT/DM | Pct | Pet Cum |
| | Number | Number | Goal | Goal | Goal | Number | Number | Goal | Goal | Goal | Number | Number | Number | Cum . | Overlap | Overlap |
| 1001 | | | | | | ; | : ' | | | | : | ! | : | 1 | | ***** |
| יייי מבליניווייני | | > | 2 | 9 | \$00.0 | > | 9 | 0 | 0.0 | 0.004 | 0 | 0 | 0 | 0 | 0.001 | 0.00 |
| October | • | 0 | 0.0 | 0.0 | 100.0 | - | 7 | 0.0 | 0.0 | 0.00% | - | 7 | o | • | 0.00 | 400.D |
| November | - | ~ | 0.0 | 0.0 | 100.0 | ~ | ∞ | 0.0 | 0.0 | 0.00% | - | 6 | 2 | 7 | 25.00\$ | 22.224 |
| December | 30 | 33 | 269.4 | 269.4 | 12.251 | 45 | 5.3 | 517.2 | 517.2 | 10.254 | 62 | 11 | = | 15 | 20.97% | 21.13% |
| 1994 January | 65 | 96 | 269.4 | 538.7 | 18.19\$ | 125 | 178 | 517,2 | 1034.3 | 17.21 | 991 | 237 | 24 | • | 14.461 | 16.46% |
| Pebruary | נד | 175 | 269.4 | 808.1 | 21.66% | 186 | 364 | 517.2 | 1551.5 | 23.46% | 235 | 472 | 2 82 | ; ; | 316 11 | 14 198 |
| March | 137 | 312 | 269.4 | 1077.4 | 28.96% | 379 | 743 | 517.2 | 2068.7 | 35.921 | 451 | 923 | 59 | 132 | 14.411 | 14.30% |
| April | 186 | 498 | 269.4 | 1346.8 | 36.98% | 458 | 1201 | 517.2 | 2585.9 | 46.44% | 960 | 1483 | 84 | 216 | 19.00 | 14.578 |
| May | 226 | 724 | 269.4 | 1616.2 | 44.80% | 598 | 1799 | 517.2 | 3103.0 | 57.981 | 7137 | 2220 | FR. | 303 | 11.80 | 13.65% |
| June | 240 | 964 | 269.4 | 1885.5 | 51.138 | 668 | 2467 | 517.2 | 3620.2 | 68.154 | 806 | 3026 | 102 | 405 | 12.66% | 13,38% |
| July | 223 | 1187 | 269.4 | 2154.9 | 55.08% | 252 | 3019 | 517.2 | 4137.4 | 72.978 | 179 | 3697 | 104 | 509 | 15.504 | 13.771 |
| August | 260 | 1447 | 269.4 | 2424.2 | 169.65 | 949 | 3665 | 517.2 | 4654.5 | 78.743 | 799 | 4496 | 107 | 919 | 13.394 | 13.704 |
| September | 260 | 1707 | 269.4 | 2693.6 | 63.378 | 588 | 4253 | 517.2 | 5171.7 | 82.248 | 745 | 5241 | 103 | 719 | 13.831 | 13.721 |
| October | 295 | 2002 | 269.4 | 2963.0 | \$1.574 | 290 | 4843 | 517.2 | 5688.9 | 85.134 | 763 | 6004 | 122 | 841 | 15.991 | 14.018 |
| November | 288 | 2290 | 269.4 | 3232.3 | 70.851 | 572 | 5415 | 517.2 | 6206.1 | 87.25% | 750 | 6754 | 110 | 951 | 14.67% | 14.08% |
| December | 226 | 2516 | 269.4 | 3501.7 | 71.854 | 482 | 5897 | 517.2 | 6723.2 | 87.713 | 613 | 1367 | 95 | 1046 | 15.50% | 14.201 |
| 1005 | ř | | , | | ; | ; | ; | | | | | | | | | |
| 4223 Sanuary | 907 | 7//7 | 707 | 3771.0 | 7.1.514 | 557 | 6454 | 517.2 | 7240.4 | A9.14# | 715 | R082 | 96 | 1144 | 13.718 | 14.151 |
| February | 247 | 3019 | 269. | 4040.4 | 74.728 | 6LP | 6933 | 517.2 | 3757.6 | A9.378 | 637 | 6118 | 68 | 1233 | 13.978 | 14.144 |
| March | 264 | 3283 | 269.4 | 4309.8 | 76.18% | 541 | 7474 | 517.2 | 8274.7 | 90.32% | 704 | 9423 | 101 | 1334 | 14.354 | 14.161 |
| April | 213 | 3496 | 306.3 | 4616.0 | 75.741 | 411 | 7885 | 49R 6 | 8773.4 | 89.87% | 553 | 9266 | 1, | 1405 | 12.841 | 14.084 |
| Мау | 221 | 3717 | 306.3 | 4922.3 | 75.518 | 467 | 8352 | 49R 6 | 9272.0 | 90.0H | 609 | 10584 | 80 | 1485 | 13.16% | 14.03% |
| June | 214 | 3931 | 306.3 | 5228.6 | 75.188 | 494 | 8846 | 498.6 | 9770.6 | 90.54% | 627 | 11211 | 81 | 1566 | 12.92% | 13.974 |
| July | 190 | 4121 | 306.3 | 5534.9 | 74.461 | 385 | 9231 | 498.6 | 10269.3 | 89.88 | 508 | 11719 | 63 | 1633 | 13.19% | 13.934 |
| August | 189 | 4310 | 306.3 | 5841.1 | 73.791 | 469 | 9700 | 498.6 | 10767.9 | 90.08 | 603 | 12322 | ¥N | 1688 | 9.121 | 13.704 |
| September | 191 | 4501 | 306.3 | 6147.4 | 73.228 | 434 | 10138 | 498.6 | 11266.5 | #86.6B | 559 | 12881 | 70 | 1758 | 12, 524 | 13.65% |
| October | 227 | 4728 | 306.3 | 6453.7 | 73.268 | 4 | 10583 | 438.6 | 11765.2 | 89.95% | 599 | 13480 | 73 | 1831 | 12.19% | 13.58% |
| November | 195 | 4923 | 106.3 | 6760.0 | 72.83% | 404 | 10987 | 498.6 | 12263.8 | R9.59% | 542 | 14022 | 57 | 1888 | 10.524 | 13.46% |
| December | 199 | 5122 | 299.0 | 7059.0 | 72.568 | 320 | 11307 | 487.8 | 12751.6 | 88.67% | 462 | 14484 | 53 | 1945 | 12, 344 | 13.43% |
| 1996 January | 242 | 5364 | 299.0 | 7358.0 | 72.90% | 433 | 11740 | 487.8 | 13239.3 | 88.68% | 605 | 15089 | 20 | 2015 | 11.57 | 13,351 |
| February | 198 | 5562 | 299.0 | 7657.0 | 72.648 | 414 | 12154 | 487.8 | 13727.1 | 88.54% | 559 | 15648 | 53 | 2068 | 9.488 | 13.221 |
| March | 215 | 5777 | 299.0 | 7956.0 | 72.61% | 493 | 12647 | 487.8 | 14214.8 | 88.97% | 640 | 16288 | 69 | 2136 | 10.63% | 13.11% |
| April | 249 | 6026 | 299.0 | 8255.0 | 73.00% | 548 | 13195 | 487.8 | 14702.6 | 89.75\$ | 724 | 17012 | 7.3 | 2209 | 10.08 | 12.981 |
| Мау | 260 | 6286 | 301.1 | 8556.1 | 73.478 | 240 | 11715 | 473.5 | 15176.1 | 90.50% | 113 | 17725 | 87 | 2296 | 12.201 | 12.954 |
| June | 248 | 6534 | 301.1 | 8857.2 | 73,778 | 202 | 14237 | 473.5 | 15649.6 | \$16.06 | 680 | 18405 | 90 | 2366 | 10.29% | 12.86% |
| July | 292 | 6826 | 101.1 | 9158.3 | 74.531 | 591 | 14828 | 473.5 | 16123.1 | 91.97% | 191 | 19196 | 95 | 2458 | 11.631 | 12.80% |
| August | 293 | 7119 | 301.1 | 9459.4 | 75.26% | 608 | 15436 | 473.5 | 16596.7 | \$10.66 | 822 | 20018 | 66 | 2537 | 9.611 | 12.671 |

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Table 2.1b
Randomization Activity by Clinic Group, Study Component and Month
Clinic Group: NCC
(Data As Of: 08/30/96)

| Pet Cum Cum. Pet Cum CT Cum CT Cum CT Cum FPT | HORMONE REPLACEMENT THERAPY RANDOMIZATIONS | REPLACEME | <u>പ</u> | NT THERAP! ONS | >- | | DII SA | DIET MODIFICATION RANDOMIZATIONS | ICATION TONS | | | ATOT | TOTAL CLINICAL TRIAL RANDOMIZATIONS | AL TRIAL FIONS | | |
|---|---|-----------|----------|-------------------|---------------|--------|-----------|-------------------------------------|-----------------|-------------|--------|----------|--|-------------------|----------|---------|
| Goal Number Goal Goal Number Current Coal Number Current Coal Number Current | Cum. | ŧ | ā | F | Pot Cum | | Ē | | Ē | , co | ŧ | Ę | | 10 A | | |
| 0.00% 0 <th>er Goal</th> <th></th> <th>Goa</th> <th></th> <th>Goal</th> <th>Number</th> <th>Number</th> <th></th> <th>Goal</th> <th>Goal</th> <th>Number</th> <th>Number</th> <th></th> <th>Cum #</th> <th>overlap</th> <th>Overlap</th> | er Goal | | Goa | | Goal | Number | Number | | Goal | Goal | Number | Number | | Cum # | overlap | Overlap |
| 0.00% 13 13 0.0 <th></th> <th></th> <th>1</th> <th></th> <th></th> <th></th> <th>j.</th> <th></th> <th></th> <th></th> <th>1 1</th> <th></th> <th></th> <th></th> <th>) (</th> <th></th> | | | 1 | | | | j. | | | | 1 1 | | | |) (| |
| 0.003 113 126 0.0 0.004 111 146 1 1 6.25% 0.003 113 126 0.0 0.004 131 140 11 1.6.25% 14.84% 301 427 751.5 751.5 56.82% 386 535 28 42 7.22% 17.86% 413 427 751.5 1503.0 55.89% 535 1070 54 96 10.09% 19.87% 552 1776 751.5 2254.5 54.29% 514 1584 59 155 11.48% 43.26% 551 222 1776 751.5 3006.1 59.08% 724 2208 58 11.48% 45.75% 501 2277 751.5 52.60.6 63.70% 76 2008 58 231 8018 51.89% 557 284 751.5 52.60.6 63.70% 76 444 10.34% 10.34% 55.90% | | | | , c | 5 6 | : : | > ; | | 0.0 | \$00.0 0 | · . | . | • | 5 | 900.0 | 0.00% |
| 34.84% 301 427 751.5 56.82% 131 147 13 14 9.52% 34.84% 301 427 751.5 751.5 56.82% 388 535 28 42 7.22% 37.86% 413 840 751.5 1503.0 55.89% 535 1070 54 96 10.09% 39.87% 384 1224 751.5 1503.0 55.89% 536 1070 54 96 10.09% 45.75% 552 1776 751.5 1006.1 59.08% 724 2308 59 11.48% 45.75% 561 60.60% 66.60% 662 2970 79 292 11.48% 49.16% 557 2834 751.5 60.60% 66.370 73 4471 76 364 10.34% 55.90% 575 2834 751.5 6012.1 63.04% 744 6649 66 914 10.34% 55.56% | > 6 | | , | . | 2 00.0 | 7 ; | fi j | 0.0 | o (| \$00.0 0 | 9 ; | 16 | → ; | | 6.258 | 6.258 |
| 34.84% 301 427 751.5 75 | 0.0 | | P | 0.0 | 0.00% | 113 | 126 | 0.0 | 0.0 | 900.0 | 131 | 147 | 13 | 14 | 9.92% | 9.52% |
| 39.87% 413 840 751.5 1593.0 55.89% 535 1070 54 96 10.09% 39.87% 384 1224 751.5 2254.5 54.29% 514 1584 59 155 11.48% 43.26% 552 1776 751.5 3006.1 59.08% 724 2308 58 213 8.01% 45.75% 562 1776 751.5 3006.1 59.08% 724 2308 58 213 8.01% 45.75% 501 60.60% 66.2 2970 79 292 11.93% 49.16% 557 2834 751.5 560.5 63.70% 735 4471 76 444 10.34% 55.96% 517 751.5 560.2 63.70% 745 5116 88 532 13.44% 10.34% 55.56% 518 518 51.5 61.5 61.5 744 6649 68 514 11.44% | 150 430.6 430.6 | | 430 | ø | 34.848 | 301 | 427 | 751.5 | 751.5 | 56.82% | 388 | 535 | 28 | 42 | 7.228 | 7.858 |
| 39.87% 384 1224 751.5 2254.5 54.29% 514 1584 59 155 11.48% 43.26% 552 1776 751.5 3006.1 59.08% 724 2308 58 513 8.01% 45.75% 501 2277 751.5 3006.1 59.08% 724 2308 58 213 8.01% 49.16% 557 2834 751.5 4509.1 62.85% 766 3736 76 308 9.92% 51.89% 517 3351 751.5 600.60% 66.2 3736 76 308 9.92% 11.93% 51.89% 517 3351 751.5 6012.1 63.04% 743 643 76 444 10.34% 10.34% 553.94% 518 515.5 6012.1 61.24% 789 511.6 11.64% 11.41 11.34% 11.64% 11.64 66.9 94 94.1 11.44 11.44% 11.44 <td< td=""><th>326 430.6 861.1</th><td></td><td>861.</td><td>_</td><td>37.868</td><td>413</td><td>840</td><td>751.5</td><td>1503.0</td><td>\$5.89%</td><td>535</td><td>1070</td><td>5.4</td><td>96</td><td>10.09%</td><td>8.97%</td></td<> | 326 430.6 861.1 | | 861. | _ | 37.868 | 413 | 840 | 751.5 | 1503.0 | \$5.89% | 535 | 1070 | 5.4 | 96 | 10.09% | 8.97% |
| 43.264 552 1776 751.5 3006.1 59.08% 724 2308 58 213 80.01% 45.75% 501 2277 751.5 3157.6 60.60% 662 2970 79 292 11.93% 49.16% 557 2834 751.5 4509.1 62.85% 766 3736 76 36 9.92% 51.89% 517 3351 751.5 5260.6 63.70% 735 4471 76 444 10.34% 53.94% 518 516 612.1 612.1 63.04% 645 516 64.4 10.34% 55.54% 518 516 751.5 612.1 61.4 744 64.9 66 9.1 11.64% 55.54% 516 751.5 6153.6 61.4 744 664.9 66 69 9.1 11.64% 11.64% 11.6 11.6 11.6 11.6 11.6 11.6 11.6 11.6 11.6 | 515 430.6 1291.7 | | 1291.7 | | 39.87% | 384 | 1224 | 751.5 | 2254.5 | 54.29% | 514 | 1584 | 59 | 155 | 11.48% | 9.798 |
| 45.75% 501 2277 751.5 4757.6 60.60% 662 2970 79 292 11.93% 49.16% 557 2834 751.5 4509.1 62.85% 766 3736 76 368 9.92% 51.89% 517 3151 751.5 526.0 61.70% 735 4471 76 444 10.34% 53.94% 517 751.5 6012.1 63.04% 645 5116 88 532 13.64% 55.96% 575 6763.6 61.20% 64.54% 789 5916 68 69 91 13.64% 55.56% 586 4951 751.5 675.8% 744 6649 68 69 69 11.8% 55.56% 586 4951 751.5 7515.2 65.8% 744 6649 68 69 11.8% 58.97% 566 4551 751.5 751.5 66.14% 746 6649 68 694 | 745 430.6 1722.2 | | 1722.2 | | 43.26% | 552 | 9241 | 751.5 | 3006.1 | 59.088 | 724 | 2308 | ή, eo | 213 | 8.01% | 9.23% |
| 557 2834 751.5 4509.1 62.85% 766 3736 76 36 9.92% 517 3351 751.5 5260.6 63.70% 735 4471 76 444 10.34% 439 3790 751.5 6012.1 63.04% 645 5116 88 532 13.64% 556 4351 751.5 6763.6 64.54% 789 5905 94 626 11.91% 566 5517 751.5 65.88% 744 6649 68 694 9.14% 625 6142 751.5 66.74% 806 7455 93 787 11.54% 626 5517 751.5 9018.2 66.74% 806 7455 93 784 11.41% 701 6843 827.7 9845.9 69.50% 941 9246 115 10.75% 804 753 835 11501 11238 115 11538 11538 | 985 430.6 2152.8 | | 2152.8 | | 45.758 | 501 | 2277 | 751.5 | 3757.6 | 809.09 | 299 | 2970 | 19 | 292 | 11.938 | 9.83% |
| 517 3151 751.5 5260.6 63.70% 735 4471 76 444 10.34% 439 3790 751.5 6012.1 63.04% 645 5116 88 532 13.64% 575 4365 751.5 6763.6 64.54% 789 5905 94 626 11.91% 586 4951 751.5 65.88% 744 6649 68 69 9.14% 566 5517 751.5 65.74% 806 7455 93 787 11.54% 625 6142 751.5 66.74% 806 7455 93 787 11.54% 701 6843 827.7 9845.9 69.50% 941 9246 115 999 12.22% 691 7534 827.7 10673.6 70.59% 911 10157 98 10.75% 864 9200 827.7 11501.3 72.48% 1081 1238 131 1385 <th>1270 430.6 2583.3</th> <td></td> <td>2583.3</td> <td></td> <td>49.168</td> <td>557</td> <td>2834</td> <td>751.5</td> <td>4509.1</td> <td>62.85%</td> <td>766</td> <td>3736</td> <td>91</td> <td>368</td> <td>9.928</td> <td>9.858</td> | 1270 430.6 2583.3 | | 2583.3 | | 49.168 | 557 | 2834 | 751.5 | 4509.1 | 62.85% | 766 | 3736 | 91 | 368 | 9.928 | 9.858 |
| 439 3790 751.5 6012.1 63.04% 645 5116 88 532 13.64% 575 4365 751.5 6763.6 64.54% 789 5905 94 626 11.91% 586 4951 751.5 65.88% 744 6649 68 694 9.14% 566 5517 751.5 8266.7 66.74% 806 7455 93 787 11.54% 625 6142 751.5 9018.2 68.11% 850 8305 97 884 11.41% 701 6843 827.7 9845.9 69.50% 941 9246 115 999 12.22% 691 7534 827.7 10673.6 70.59% 911 10157 98 10.76% 802 8336 827.7 11501.3 72.48% 1081 11238 157 12.52% 864 9200 827.7 12329.0 74.62% 1238 131 < | 1564 430.6 3013.9 | | 3013.9 | | 51.89% | 517 | 3351 | 751.5 | 5260.6 | 63.70% | 735 | 4471 | 9/ | 444 | 10.34% | 9.938 |
| 575 4365 751.5 6763.6 64.54% 789 5905 94 626 11.91% 586 4951 751.5 7515.2 65.88% 744 6649 68 694 9.14% 566 5517 751.5 8266.7 66.74% 806 7455 93 787 11.54% 625 6142 751.5 9018.2 68.11% 850 8305 97 884 11.41% 701 6843 827.7 3845.9 69.50% 941 9246 115 999 12.22% 691 7534 827.7 10673.6 70.59% 911 10157 98 10.76% 802 8336 827.7 11501.3 72.48% 1081 11238 157 1254 14.52% 864 9200 827.7 12329.0 74.62% 1150 12388 131 1385 11.39% | 1858 430.6 3444.4 | | 3444.4 | | 53.94% | 439 | 3790 | 751.5 | 6012.1 | 63.04% | 645 | 5116 | 88 | 532 | 13.64% | 10.40% |
| 575 4365 751.5 6763.6 64.54% 789 5905 94 626 11.91% 586 4951 751.5 65.88% 744 6649 68 694 9.14% 566 5517 751.5 8266.7 66.74% 806 7455 93 787 11.54% 625 6142 751.5 9018.2 68.11% 850 8305 97 884 11.41% 701 6843 827.7 9845.9 69.50% 941 9246 115 999 12.22% 691 7534 827.7 10673.6 70.59% 911 10157 98 10.76% 802 8336 827.7 11501.3 72.48% 1081 11238 157 14.52% 864 9200 827.7 12329.0 74.62% 1150 1238 131 1385 11.39% | | | | | | | | | | | | | | | | |
| 586 4951 751.5 65.88% 744 6649 68 694 9.14% 566 5517 751.5 8266.7 66.74% 806 7455 93 787 11.54% 625 6142 751.5 9018.2 68.11% 850 8305 97 884 11.41% 701 6843 827.7 10673.6 70.59% 941 9246 115 999 12.22% 802 7534 827.7 10673.6 70.59% 911 10157 98 10.76% 10.76% 802 8336 827.7 11501.3 72.48% 1081 11238 157 12.54 14.52% 864 9200 827.7 12329.0 74.62% 1150 1238 131 1385 11.39% | 2166 430.6 3875.0 | | 3875.0 | | \$5.90% | 575 | 4365 | 751.5 | 6763.6 | 64.548 | 789 | 5905 | 94 | 929 | 11.91% | 10.60% |
| 57.54% 566 5517 751.5 8266.7 66.74% 806 7455 93 787 11.54% 58.97% 625 6142 751.5 9018.2 68.11% 850 8305 97 884 11.41% 60.31% 701 6843 827.7 9485.9 69.50% 941 9246 115 999 12.22% 60.83% 691 7534 827.7 10673.6 70.59% 911 10157 98 1097 10.76% 63.07% 802 8336 827.7 11501.3 72.48% 1081 1238 157 1254 14.52% 64.74% 864 9200 827.7 12329.0 74.62% 1150 12388 131 1385 11.39% | 2392 430.6 4305.6 | | 4305.6 | | 55.56% | 586 | 4951 | 751.5 | 7515.2 | 65.88% | 744 | 6649 | 89 | 694 | 9.148 | 10.44% |
| 58.97% 625 6142 751.5 9018.2 68.11% 850 8305 97 884 11.41% 60.31% 701 6843 827.7 9845.9 69.50% 941 9246 115 999 12.22% 60.83% 691 7534 827.7 10673.6 70.59% 911 10157 98 10.76% 63.07% 802 8336 827.7 11501.3 72.48% 1081 11238 157 1254 14.52% 64.74% 864 9200 827.7 12329.0 74.62% 1150 12388 131 1385 11.39% | 2725 430.6 4736.1 | | 4736.1 | | 57.548 | 995 | 5517 | 751.5 | 8266.7 | 66.74% | 806 | 7455 | 93 | 787 | 11.548 | 10.56% |
| 60.31% 701 684.3 827.7 9845.9 69.50% 941 9246 115 999 12.22% 60.83% 691 7534 827.7 10673.6 70.59% 911 10157 98 10.76% 10.76% 63.07% 802 8336 827.7 11501.3 72.48% 1081 11238 157 1254 14.52% 64.74% 864 9200 827.7 12329.0 74.62% 1150 12388 131 1385 11.39% | 3047 430.6 5166.7 | | 5166.7 | _ | 58.978 | 625 | 6142 | 751.5 | 9018.2 | 68.11% | 850 | 8305 | 76 | 884 | 11,41% | 10.64% |
| 691 7534 827.7 10673.6 70.59% 911 10157 98 1097 10.76% 802 8336 827.7 11501.3 72.48% 1081 11238 157 1254 14.52% 864 9200 827.7 12329.0 74.62% 1150 12388 131 1385 11.39% | 3402 474.2 5640.9 | | 5640.9 | | 60.31% | 701 | 6843 | 827.7 | 9845.9 | \$05.69 | 941 | 9246 | 115 | 666 | 12.22% | 10.80% |
| 63.07% 802 8336 827.7 11501.3 72.48% 1081 11238 157 1254 14.52% 64.74% 864 9200 827.7 12329.0 74.62% 1150 12388 131 1385 11.39% | 3720 474.2 6115.1 | | 6115.1 | | 60.83% | 691 | 7534 | 827.7 | 10673.6 | 70.59% | 911 | 10157 | 86 | 1097 | 10.76% | 10.80% |
| 64.74% 864 9200 827.7 12329.0 74.62% 1150 12388 131 1385 11.39% | 4156 474,2 6589.3 | | 6589 | _ | 63.07% | 802 | 8336 | 827.7 | 11501.3 | 72.488 | 1081 | 11238 | 157 | 1254 | 14.52% | 11.16% |
| | 4573 474.2 7063.5 | | 7063.5 | | 64.74% | 864 | 9200 | 827.7 | 12329.0 | 74.62% | 1150 | 12388 | 131 | 1385 | 11.39% | 11.18% |

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Table 2.2

CaD Randomization Activity and OS Enrollment Activity

By Clinic Group and Month Data As Of: 08/30/96

Clinic Group: VCC

CALCIUM AND VITAMIN D SUPPLEMENTATION RANDOMIZATIONS

OBSERVATIONAL STUDY ENROLLMENTS

| | | | Cum. | | Cum. | Pct Cum | | Cum. | | Cum. | Pct Cum |
|------|-----------|--------|--------|-------|--------|---------|--------|--------|---------------|---------|---------|
| Year | Month | Number | Number | Goal | Goal | Goal | Number | Number | Goal | Goal | Goal |
| | | | | | | | | | | | |
| 1994 | September | O | 0 | 0.0 | 0.0 | 0.00% | 25 | 25 | 0.0 | 0.0 | 0.00% |
| | October | 0 | 0 | 0.0 | 0.0 | 0.00% | 148 | 173 | 0.0 | 0.0 | 0.00% |
| | November | 0 | 0 | 0.0 | 0.0 | 0.00% | 374 | 547 | 0.0 | 0.0 | 0.00% |
| | December | D | 0 | 0.0 | 0.0 | 0.00% | 500 | 1047 | 700.3 | 700.3 | 149.50% |
| | | | | | | | | | | | |
| 1995 | January | 0 | 0 | 0.0 | 0.0 | 0.00% | 621 | 1668 | 700.3 | 1400.7 | 119.09% |
| | February | o | 0 | 0.0 | 0.0 | 0.00% | 981 | 2649 | 700.3 | 2101.0 | 126.08% |
| | March | 0 | 0 | 0.0 | 0.0 | ₹00.0 | 1091 | 3740 | 700.3 | 2801.3 | 133.51% |
| | April | 0 | 0 | 0.0 | 0.0 | 0.00% | 1037 | 4777 | 767. 9 | 3569.3 | 133.84% |
| | May | 0 | 0 | 0.0 | 0.0 | 0.00% | 1199 | 5976 | 767.9 | 4337.2 | 137.78% |
| | June | 118 | 118 | 0.0 | 0.0 | 0.00% | 1010 | 6986 | 767.9 | 5105.1 | 136.84% |
| | July | 298 | 416 | 582.3 | 582.3 | 71.44% | 880 | 7866 | 767.9 | 5873.0 | 133.93% |
| | August | 480 | 896 | 582.3 | 1164.6 | 76.94% | 1110 | 8976 | 767.9 | 6641.0 | 135.16% |
| | September | 415 | 1311 | 582.3 | 1746.9 | 75.05% | 85B | 9834 | 767.9 | 7408.9 | 132.73% |
| | October | 484 | 1795 | 582.3 | 2329.2 | 77.07% | 840 | 10674 | 767.9 | 8176.8 | 130.54% |
| | November | 428 | 2223 | 582.3 | 2911.4 | 76.35% | 832 | 11506 | 767.9 | 8944.7 | 128.63% |
| | December | 353 | 2576 | 571.7 | 3483.1 | 73.96% | 684 | 12190 | 773.4 | 9718.1 | 125.44% |
| | | | | | | | | | | | |
| 1996 | January | 462 | 3038 | 571.7 | 4054.B | 74.92% | 917 | 13107 | 773.4 | 10491.5 | 124.93% |
| | February | 462 | 3500 | 571.7 | 4626.4 | 75.65% | 1021 | 14128 | 773.4 | 11264.9 | 125.42% |
| | March | 467 | 3967 | 571.7 | 5198.1 | 76.32% | 992 | 15120 | 773.4 | 12038.3 | 125.60% |
| | April | 550 | 4517 | 571.7 | 5769.8 | 78.29% | 1083 | 16203 | 773.4 | 12811.7 | 126.47% |
| | May | 547 | 5064 | 554.8 | 6324.5 | 80.07% | 1115 | 17318 | 828.1 | 13639.8 | 126.97% |
| | June | 509 | 5573 | 554.8 | 6879.3 | 81.01% | 1037 | 18355 | 828.1 | 14467.9 | 126.87% |
| | July | 312 | 5885 | 554.8 | 7434.0 | 79.16% | 1202 | 19557 | 828.1 | 15296.0 | 127.86% |
| | August | 319 | 6204 | 554.8 | 7988.8 | 77.66% | 1191 | 20748 | 828.1 | 16124.2 | 128.68% |

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Table 2.2 (continued)

Clinic Group: NCC

CALCIUM AND VITAMIN D SUPPLEMENTATION RANDOMIZATIONS

OBSERVATIONAL STUDY ENROLLMENTS

| | | | Cum. | | Cum. | Pct Cum | | Cum. | | Cum. | Pct Cum |
|------|-----------|--------|--------|-------|--------|---------|--------|--------|--------|---------|---------|
| Year | Month | Number | Number | Goal | Goal | Goal | Number | Number | Goal | Goal | Goal |
| 1995 | February | 0 | 0 | 0.0 | 0.0 | D.00% | 22 | 22 | 0.0 | 0.0 | 0.00% |
| | March | 0 | 0 | 0.0 | 0.0 | 0.00% | 234 | 256 | 0.0 | 0.0 | 0.00% |
| | April | 0 | 0 | 0.0 | 0.0 | 0.00% | 481 | 737 | 0.0 | 0.0 | 0.00% |
| | May | 0 | ō | 0.0 | 0.0 | 0.00% | 932 | 1669 | 1017.7 | 1017.7 | 164.00% |
| | June | 0 | 0 | 0.0 | 0.0 | 0.00% | 1194 | 2863 | 1017.7 | 2035.4 | 140.66% |
| | July | 0 | 0 | 0.0 | 0.0 | 0.00% | 1039 | 3902 | 1017.7 | 3053.0 | 127.81% |
| | August | 0 | 0 | 0.0 | 0.0 | 0.00% | 1345 | 5247 | 1017.7 | 4070.7 | 128.90% |
| | September | 0 | C | 0.0 | 0.0 | 0.00% | 1350 | 6597 | 1017.7 | 5088.4 | 129.65% |
| | October | 0 | 0 | 0.0 | 0.0 | 0.00% | 1322 | 7919 | 1017.7 | 6106.1 | 129.69% |
| | November | . 0 | 0 | 0.0 | 0.0 | 0.00% | 1389 | 9308 | 1017.7 | 7123.7 | 130.66% |
| | December | . 0 | O | 0.0 | 0.0 | 800.0 | 1246 | 10554 | 1017.7 | 8141.4 | 129.63% |
| 1996 | January | 0 | 0 | 0.0 | 0.0 | 0.00% | 1323 | 11877 | 1017.7 | 9159.1 | 129.67% |
| | February | 1 | 1 | 0.0 | 0.0 | 0.00% | 1425 | 13302 | 1017.7 | 10176.8 | 130.71% |
| | March | 7 | 8 | 0.0 | 0.0 | €00.0 | 1390 | 14692 | 1017.7 | 11194.4 | 131.24% |
| | April | 68 | 76 | 0.0 | 0.0 | 0.00% | 1483 | 16175 | 1017.7 | 12212.1 | 132.45% |
| | May | 210 | 286 | 750.0 | 750.0 | 38.13% | 1430 | 17605 | 1120.9 | 13333.0 | 132.04% |
| | June | 242 | 528 | 750.0 | 1500.0 | 35.20% | 1502 | 19107 | 1120.9 | 14453.8 | 132.19% |
| | July | 315 | B43 | 750.0 | 2250.0 | 37.47% | 1445 | 20552 | 1120.9 | 15574.7 | 131.96% |
| | August | 343 | 1186 | 750.0 | 3000.0 | 39.53% | 1599 | 22151 | 1120.9 | 16695.5 | 132.68% |

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Table 2.3

Reasons for Refusing/Revoking Consent

By Study Component and Clinic Group Data as of: 08/30/96

Clinic Group: VCC

Consent Form Summary

| Consent Name | Forms | Signed | ф | Refused | ф | Revoked | æ | Unanswered | æ | |
|-------------------|-----------|--------|-------|-----------|---------|---------|-------|------------|-------|--|
| | 1 1 1 1 1 | | 1 1 1 | 1 1 1 1 1 | 1 1 1 1 | | 1 1 | | 1 1 1 | |
| SCREENING CONSENT | 65441 | 55525 | 84.85 | 8662 | 13.24 | 1229 | 1.88 | 25 | . 04 | |
| HRT CONSENT | 32134 | 9234 | 28.74 | 15343 | 47.75 | 7525 | 23.42 | 32 | .10 | |
| DMT CONSENT | 32266 | 19581 | 69.09 | 5243 | 16.25 | 7410 | 22.97 | 32 | .10 | |
| CAD CONSENT | 8318 | 6287 | 75.58 | 2027 | 24.37 | 0 | 00. | 4 | .05 | |
| | | | | | | | | | | |

| | Screening Consent Refused/Revoked | Consent voked | HRT Consent Refused/Revoked | ent Revoked | DM Consent Refused/Revoked | nt Revoked | CaD Consent Refused/Revoked | ent Revoked |
|-------------------|--------------------------------------|---------------------|--------------------------------|----------------|-------------------------------|---------------------------------|--------------------------------|----------------|
| Reason Group | Count | 1 dP 1 1 1 | Count | #P | Count | dP | Count | 1 dp |
| CONFLICTS | 115 | 1.16 | 742 | 3.24 | 102 | 0.81 | 30 | 1.48 |
| CONTACTS | 147 | 1.49 | 13 | 0.06 | 221 | 1.75 | 0 | 00.00 |
| LIMITATIONS | 222 | 2.24 | 6517 | 28.50 | 1506 | 11.90 | 251 | 12.38 |
| LOST CONTACT/DIED | 14 | 0.14 | 4 | 0.02 | 13 | 0.10 | 0 | 00.0 |
| OTHER | 4502 | 45.52 | 4199 | 18.36 | 3638 | 28.75 | 389 | 19.19 |
| PERSONAL | 2459 | 24.86 | 1114 | 4.87 | 3678 | 29.07 | 63 | 3.11 |
| PROCEDURES | 78 | 0.79 | 53 | 0.23 | 228 | 1.80 | 0 | 00.0 |
| REASON NOT GIVEN | 1379 | 13.94 | 3314 | 14.49 | 2714 | 21.45 | 689 | 33.99 |
| REFUSAL | 1284 | 12.98 | 549 | 2.40 | 491 | 3.88 | 64 | 3.16 |
| TRAVEL | 644 | 6.51 | 393 | 1.72 | 970 | 7.67 | Ŋ | 0.25 |
| TREATMENTS | 176 | 1.78 | 5097 | 22.29 | 169 | 1.34 | 521 | 25.70 |
| WORRIES | 81 | 0.82 | 2134 | 9.33 | 20 | 0.40 | 127 | 6.27 |

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Table 2.3 (Continued)

WHI, Annual Progress Report

Clinic Group: NCC

Consent Form Summary

.10 .06 .07 55 11 14 Unanswered .31 13.07 16.07 173 2569 3248 Revoked 13.43 54.52 20.67 25.20 7606 10717 4177 405 Refused 86.16 32.35 63.20 74.61 48783 6359 12773 1199 Signed Forms 56617 19656 20212 1607 SCREENING CONSENT HRT CONSENT DMT CONSENT CAD CONSENT Consent Name

| | Screening Consent Refused/Revoked | Consent | HRT Consent Refused/Revoked | ent Revoked | DM Consent Refused/Revoked | nt Revoked | CaD Consent Refused/Revoked | ent Revoked | |
|------------------|--------------------------------------|-----------------------|--------------------------------|---|-------------------------------|---------------|--------------------------------|----------------|--|
| Reason | | ; ; ; ; ; | | 1 1 1 1 | 1 1 1 1 | 1 1 1 1 1 1 | | 1 | |
| Group | Count | dФ | Count | æ | Count | dю | Count | ъÞ | |
| | 1 1 1 1 1 | 1 1 1 1 1 | | 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 1 1 1 1 1 | 1 1 1 1 | 1 1 1 1 | 1 1 1 1 1 | |
| CONFLICTS | 132 | 1.70 | 541 | 4.07 | 54 | 0.73 | ហ | 1.23 | |
| LIMITATIONS | 330 | 4.24 | 4740 | 35.68 | 1087 | 14.64 | 57 | 14.04 | |
| OTHER | 2664 | 34.25 | 1661 | 12.50 | 1935 | 26.06 | 63 | 15.52 | |
| PERSONAL | 2126 | 27.33 | 718 | 5.40 | 2181 | 29.37 | 23 | 5.67 | |
| PROCEDURES | 53 | 0.68 | 16 | 0.12 | 216 | 2.91 | က | 0.74 | |
| REASON NOT GIVEN | 602 | 7.74 | 1957 | 14.73 | 1435 | 19.33 | 106 | 26.11 | |
| REFUSAL | 1409 | 18.11 | 528 | 3.97 | 425 | 5.72 | 35 | 8.62 | |
| TRAVEL | 955 | 12.28 | 331 | 2.49 | 617 | 8.31 | ហ | 1.23 | |
| TREATMENTS | 257 | 3.30 | 2809 | 21.14 | 221 | 2.98 | 105 | 25.86 | |
| WORRIES | 25 | 0.32 | 622 | 4.68 | 31 | 0.42 | 23 | 5.67 | |

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3. Baseline

3.1 Design Parameters and Study Goals

Figure 3.1 - Partial Factorial Design shows the current number of women in each original CT cell under the design (compare to Figure 1 of the Protocol in the WHI Manuals, Vol. 1 - Study Protocol and Policies, Section 2 - Protocol). The numbers originally randomized to ERT and subsequently transitioned to PERT are shown in parentheses under the now closed ERT arm.

Figure 3.1
Partial Factorial Design

Number of women in each cell of the partial factorial design.

| | | | Intact l | HRT— | Not Randomized |
|--------|----------------|--------|--------------------------|-------|-------------------|
| | | | Yes | No | |
| | | | 7,004 (331) ¹ | 4,688 | 20,714 |
| D I | Intervention | 9,867 | 937 (52) | 638 | 8,292 |
| E | Control | 14,769 | 1,315 (79) | 1,032 | 12,422 |
| T | Not Randomized | 7,770 | 4,752 (200) | 3,018 | |
| | | 32,406 | | | |

¹ Randomizations to ERT among women with an intact uterus was stopped on 12/16/94. The number of these women is shown in parentheses.

Age and, for HRT, hysterectomy status are important design factors in determining the required sample size for the CT. Figure 3.2 - Age Distribution by Study Component and Hysterectomy Status displays the distribution of age and hysterectomy status by study component. Note that the target age distribution for each component is 10%, 20%, 45% and 25% for the age categories 50-54, 55-59, 60-69, and 70-79, respectively. For HRT, the proportion of randomized women having had hysterectomies at baseline has been modified to reflect the redesign of HRT; the new target is 45%.

The study continues to experience a deficit in the oldest age category; only 18% of HRT participants and 14% of DM participants are 70-79 years of age. This is a 1% increase over the levels reported previously. In the 60-69 year age group the deficits are 4% to 5%. With respect to uterine status, 40% of women randomized to HRT have had hysterectomies.

The difficulties in recruiting older women are numerous. Often these women have multiple health, personal or family issues that create barriers to participation. The long follow-up period had also been reported as a reason these women are reluctant to commit. When these women do attend clinic, the screening process is more difficult for many of the same reasons. To address these recruitment problems systematically, an ad hoc task force, led by Mary Haan, Ph.D. and Co-Principal Investigator at UC Davis and Robert Wallis, MD, Principal Investigator at Iowa developed

recommendations for targeted recruitment of women over 70. These were approved by Council in August and referred to the Clinical Centers and the CCC for implementation.

The policy to close recruitment into the younger age cells at clinics who are nearing or have reached their corresponding goals has been further refined. After updating recruitment projections to reflect recent experience, some modifications were made to permit age-specific recruitment overages at well-performing clinics to make up for the anticipated shortfall at others. Currently for HRT we have closed recruitment at 7 VCCs and 1 NCC for 50-54 year olds. For DM we have closed recruitment at all VCCs and 8 NCCs for 50-54 year olds and 8 VCCs for 55-59 year olds.

Race and ethnicity have been defined to assure the study's ability to address particular questions in minority populations. The study-wide goal to recruit 20% of the WHI population from racial and ethnic minorities (as compared to the 1990 U.S. Census figure of 17%). To achieve this goal, CCs were awarded in two pools: Pool 1 CCs are obliged to recruit 60% of their enrollees (for CT and OS) from racial and ethnic minorities; Pool 2 CCs are asked to recruit minorities in proportion to their local population. Among VCCs, four Pool 1 clinics were named, each with a particular minority population focus: Atlanta (Black/African American); Birmingham (Black/African American); La Jolla (Hispanic); and Tucson (Hispanic/Native American). There are six NCCs identified as Pool 1 clinics: Chicago-Rush (Black/African American); Detroit (Black/African American); Honolulu (Asian/Pacific Islander); Medlantic (Black/African American); Miami (Hispanic); San Antonio (Hispanic). Enhanced recruitment decisions have modified these goals slightly.

Race and ethnicity are determined by self-report on Form 2/3 - Eligibility Screen in accordance with the U.S. Census defined categories. Figure 3.3 - Distribution of Race and Ethnicity presents the distribution of race and ethnicity among all women randomized or enrolled to WHI by CC group and funding category (Pool 1 or 2).

Among Pool 1 VCCs, 32% of currently recruited women are from racial or ethnic minorities, with most of these being Black/African American (20%) or Hispanic (10%). Among Pool 2 VCCs minority women represent 10% of the accrued population. Among NCCs, Pool 1 sites have recruited 58% of their enrollees from racial or ethnic minorities, 28% Black/African American, 13% Asian/Pacific Islander and 14% Hispanic. Pool 2 NCCs have also recruited over 12% minorities. Minority recruitment in the CT is at 18% overall, and shows a continuing modest increase.

The Special Population Advisory Committee is working with Pool 1 centers, the CCC, NIH and Porter-Novelli to facilitate greater recruitment of minority and lower SES women as well as those over age 70.

3.2 Selected Baseline Predictors

To further characterize the recruited population and to demonstrate the balance achieved on other baseline characteristics, *Table 3.1 - Baseline Characteristics by Study Component* presents the comparisons of selected self-reported baseline variables by study component and by treatment arm.

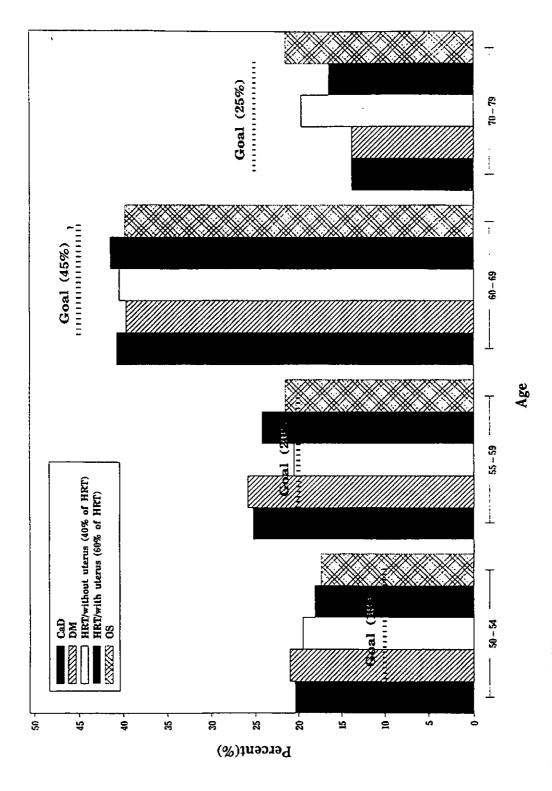
• Demographic: race/ethnicity; martial status; income; education.

- General Health History: ever smoker; ever drank alcohol.
- Breast Cancer risk factors: age at menarche; parity; age at first pregnancy; family history of breast cancer; history of breast biopsy; oophorectomy status.
- CHD risk factors: history of angina and MI; diabetes; current use of anti-hypertensive medications and cholesterol lowering medications, family history of MI (males and females) before age 55 and at any age.
- Fracture risk factors: history of falls, fainting and broken bones.

Table 3.2 - Physical Measures by Study Component shows the similar component specific data for height, weight, body mass index, and systolic and diastolic blood pressures.

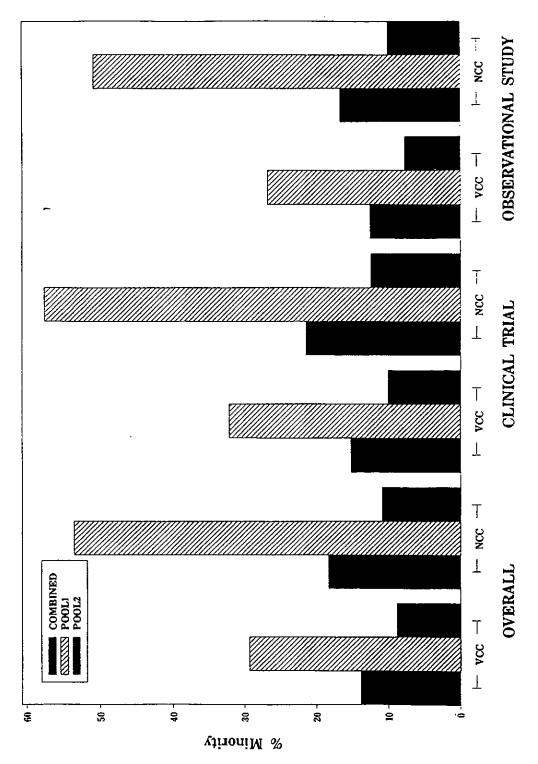
The differences between the two HRT cohorts defined by uterine status are of some interest. HRT participants with a uterus are more often white, tend to be of higher SES, lower BMI and blood pressure, and report fewer other key CHD risk factors (history of angina, MI and diabetes, current use of anti-hypertensive medications and some family history of MI). The concern in examining these factors is that the study power for the comparisons within these cohorts is a function of the CHD event rate and differences in baseline risk factors may suggest differential event rates. If the women with a uterus indeed show a lower CHD risk profile, it may become necessary to increase the target fraction of HRT women with a uterus (from 55%) to preserve the power of this treatment comparison. Such a change in goals could be easily implemented since the fraction of women with a uterus in the HRT component currently stands at 60%.

Figure 3.2
Age Distribution by Study Component and Hysterectomy Status



Data as of August 30, 1996

Figure 3.3
Distribution of Race and Ethnicity



Data as of August 30, 1996

Table 3.1
Baseline Characteristics by Study Component

Demographics Data as of: 08/30/96

| | | | HRT | | ERT | | MQ | | CAD | 9 |
|------------------------|------------|--|------------|--------|-----------|-----------------|----------|-----------|------------|---------|
| 954 | Response | response Meaning | 0 0 | | Count | uterus Pet | Count | Pot | Count | Pct |
| Racial or ethnic group | | American Indian or Alaskan Native | 39 | 0.8 | 21 | 0.3 | 117 | 0.5 | 29 | 0.4 |
| | ~ ~ | Asian or Pacific Islander Black or African American | 75.5 | 1.3 | 133 | 6.9 | 434 | 6. c | 56 | 9.0 |
| | 1 47 | | 284 | | יני מ | | 824 | ۰ ۳ ۲۰ | .00 | , c |
| | 'n | White | 3500 | 74.7 | 5940 | 84.8 | 20372 | 82.7 | 6461 | 87.4 |
| | œ | Other | 39 | 0.8 | 65 | 8.0 | 222 | 6.0 | 47 | 9.0 |
| | | Value not entered | - | 0 | 18 | 0.3 | 47 | 0.2 | 7 | 0.1 |
| | (e+0E | | 0079 | 1001 | 1000 | 1 00 1 | 24636 | 100 | 1 0 0 | 1 0 0 0 |
| | | | 5 | 3 | | 700.0 | <u>,</u> | | 065 | 0.001 |
| | | | | | | | | | | |
| Short | Ouestion | Response | w/o Uterus | | with Dear | KT | MG | 1 | CVD | |
| | Response | Meaning | Count | Pct | unt | Pct | Count | Pot | Count | Pct |
| | | | 1 1 | • | | | 1 1 | 1 - | 11 | |
| Current marital status | → (| rre | 145 | | 306 | 4.0 | 1044 | 7.5 | 312 | 4.2 |
| | v (| ō | 184 | າ ເ | 261 | ٠. | 789 | 3.5 | 498 | 6.7 |
| | V r | Divorced or seperated | 141 | Λ. | 82.6 | 13.7 | 3060 | 12.4 | 516 | 0. |
| | 7) = | 3 | 903 | | 11.74 | 16.8 | 3515 | 14.3 | 1108 | 15.0 |
| | or u | <u>.</u> | 7620 | Ω, | 4168 | ر د . د . | 15693 | 63.7 | 4823 | 65.3 |
| | n t | Living in a marriage-like relationsh | 11 | 0.5 | 25 | 4.0 | 20, | 6.0 | | B. : |
| | n | æ | o O | 1.2 | 30 · | • | 351 | 1.4 | 53 | 0.7 |
| | | m . | - [| 0.0 | -1 (| 0 0 | ٥. | 0 | - ; | 0.0 |
| | | value not entered | | • | 57 | | 94 | o. | 77 | ٥. ٢ |
| | Total | | 4688 | 1000 | 7004 | 100 | 24636 | 1000 | 7390 | 100 0 |
| | | |) | ; | • | | ; | , | , | 2 |
| | | | | | | | | | | |
| | | | BRT | | Œ | | MO | | -CAD- | P |
| Snorr | Question | Kerdonse | w/o Uterus | en.re: | 4 | Uterus | | i | | í |
| | | | Count | | Count |) i | Count | TO I | Count | TO TO |
| Total family income | - | 5 | 404 | α | 386 | ď | C | 1 1 | 263 | |
| | . 7 | 0 | 852 | 18.2 | 975 | ٠, | 2619 | 10.6 | 839 | 11.4 |
| | · М | 0 | 1335 | 28.5 | 1849 | 26.4 | 5717 | 23.2 | 1915 | 25.9 |
| | • | Q | 986 | 18.5 | 1401 | 0 | 5064 | 20.6 | 1559 | 21.1 |
| | 2 | 0 | 608 | 13.0 | 1157 | 9 | 4887 | 19.8 | 1401 | 19.0 |
| | 9 | 0 | 220 | 4.7 | 510 | 7.3 | 2177 | 8 8 | 615 | 8.3 |
| | 7 | _ | 112 | 2.4 | 267 | 3.8 | 1359 | 5.5 | 348 | 4.7 |
| | œ | 5 | 45 | 1.0 | 127 | 1.8 | 593 | 2.4 | 128 | 1.7 |
| | σ | | 113 | 2.4 | 141 | 2.0 | 562 | 2.3 | 135 | 1.8 |
| | | Questionnaire not entered | ן ננ | 0.0 | - C | 0,0 | 246 | 0.0 | 100 | 0.0 |
| | | varue not entered | 771 | 0 1 | 767 | 1 - 2 - 1 | 0 1 1 |) ! 1 | 0 1 1 | C . 2 |
| | Total | | ਧਾ | 0 | 7004 | 0 | 463 | ٠. | 739 | 00 |
| | | | | | | | | | | |

Table 3.1 (Continued)
Baseline Characteristics by Study Component

Demographics Data as of: 08/30/96 (continued)

| Short | Question | Response | W/o U | HRT | HRT | T | Q | E | CAD | G |
|-------------------------|--------------|--------------------------------------|-------|------|---------|--------|---------|----------|-------|-------------|
| Verbiage | Response | Meaning | Count | Pct | Count | Pct | Count | Pct | Count | Pct |
| Climber and a second | | | 1 | 1 | # : | 1 | 1 1 1 1 | 1 1 2 | ! ! ! | 1 t ! |
| Highest grade in school | ٠, | Didn't go to school | 10 | 0.5 | ഹ | 0.1 | 12 | 0.0 | Ŋ | 0.1 |
| | ~ | Grade school (1-4 years) | 44 | 6.0 | 53 | 8.0 | 70 | 0.3 | 28 | 0.4 |
| | m | Grade school (5-8 years) | 66 | 2.1 | 105 | 1.5 | 223 | 0.9 | 75 | 1.0 |
| | 4 | Some high school (9-11 years) | 299 | 6.4 | 279 | 4.0 | 757 | ы. П. | 246 | π. |
| | Z. | High school diploma or G.E.D. | 254 | 5.4 | 325 | 4.6 | 1053 | 4.3 | 727 | 9.8 |
| | ر م | High school diploma or GED | 754 | 16.1 | 961 | 13.7 | 3142 | 12.8 | 662 | 9.0 |
| | 9 | Vocational or training school | 628 | 13.4 | 168 | 11.0 | 2463 | 10.0 | 723 | 9. 8. |
| | 7 | Some college or Associate Degree | 1379 | 29.4 | 1933 | 27.6 | 7144 | 29.0 | 2117 | 28.6 |
| | & | College graduate or Baccalaureate | 81 | 1.7 | 154 | 2.2 | 623 | 2.5 | 387 | 5.2 |
| | œ | College graduate or Baccalaureate De | 271 | 5.8 | 542 | 7.7 | 2044 | 8.3 | 373 | 5.0 |
| | σ. | Some college after college graduatio | 82 | 1.7 | 174 | 2.5 | 618 | 2.5 | 406 | 5.5 |
| | | Some post-graduate or professional | 303 | 6.5 | 640 | 9.1 | 2204 | 8.9 | 420 | 5.7 |
| | 10 | Master's Degree | 373 | 8.0 | 880 | 12.6 | 3614 | 14.7 | 1045 | 14.1 |
| | | Doctoral Degree | ۲ | 0.1 | 33 | 0.5 | 101 | 0.4 | 65 | 6.0 |
| | 11 | Doctoral Degree (Ph.D,M.D.,J.D.,etc. | 99 | 1.2 | 107 | 1.5 | 437 | 1.8 | 85 | 1.2 |
| | | Questionnaire not entered | ⊣ | 0.0 | - | 0.0 | w | 0.0 | - | 0.0 |
| | | Value not entered | 47 | 1.0 | 44 | 9.0 | 127 | 0.5 | 52 | 0.3 |
| | Total | | 9690 | 100 | 7007 | 100 | 36365 | 000 | 1000 | 1001 |
| | 5 | | 500 | 7007 | * 000 | TOO. 0 | 00047 | 7001 | י אמי | 0.001 |

General Health History Data as of: 08/30/96

| 1 | | | HRT | 1 | HRT | | WQ | - | CAD | q |
|--------------------------|-------------------|---------------------------|---------------------------------------|-----------|-------------|---------|---------------------------------------|-----------|-------|----------|
| Short | Question Response | Response | w/o Uterus | erue | with Uterus | erus | | | | |
| Verbiage | Response | Meaning | Count | Pct | Count | Pat | Count | Pot | Count | Pct |
| | | | # # # # # # # # # # # # # # # # # # # | 1 1 1 | | | 1111 | | 1 1 1 | |
| Smoked 100 cigarettes | 0 | No | 2369 | 50.5 | 3393 | 48.4 | 12405 | 50.4 | 3747 | 50.7 |
| | 7 | Yes | 2291 | 48.9 | 3566 | 50.9 | 12084 | 49.1 | 3599 | 48.7 |
| | | Questionnaire not entered | 8 | 0.0 | ထ | 0.1 | 22 | 0.1 | 13 | 0.2 |
| | | Value not entered | 36 | 9.0 | 37 | 0.5 | 125 | 0.5 | 31 | 0.4 |
| | | | 1 1 1 1 1 | 1 1 1 1 | 1 1 1 1 1 | 1 1 1 1 | | | 1 1 1 | |
| | Total | | 4688 | 100.0 | 7004 | 100.0 | 24636 | 100.0 | 7390 | 100.0 |
| | | | | | | | | | | |
| | | | HRT | 1 | | 1 1 1 | WIG | | CAD | |
| Short | Question Response | Response | w/o Uterus | erus | with Uterus | erus | | | | |
| Verbiage | Response | Meaning | Count | Pot | Count | Pot | Count | Pct | Count | Pot |
| | 1 | | 1 | 11111 | | 1 | t 1 1 1 1 1 1 1 1 1 | 1 1 1 | 1 1 1 | |
| 12 alcoholic drinks ever | 0 | No | 673 | 14.4 | 791 | 11.3 | 2505 | 10.2 | 176 | 10.5 |
| | | Yes | 3992 | 85.2 | 6182 | 88.3 | 22045 | 89.5 | 6586 | 89.1 |
| | | Questionnaire not entered | 2 | 0.0 | 6 0 | 0.1 | 22 | 0.1 | 13 | 0.2 |
| | | Value not entered | 21 | 0.4 | 23 | 0.3 | 64 | 0.3 | 15 | 0.2 |
| | | | 1 | 1 4 1 1 1 | 1 1 1 | 1 1 1 1 | 11111 | 1 1 1 1 1 | | 11111 |
| | Total | | 4688 | 100.0 | 7004 | 100.0 | 24636 | 100.0 | 7390 | 100.0 |
| | | | | | | | | | | |

Table 3.1 (Continued)
Baseline Characteristics by Study Component

Breast Cancer Risk Factors Data as of: 08/30/96

| Age at first period 10 | 1 | | | HRT | - E | HRT | 1 | МС | : | CAD |
|--|---------------------|---------------------------------------|----------|------------|--------------|--------|-----------|----------|-------|-----|
| 12 12 12 12 12 12 12 12 | smort Verbiage | nesponse Range | w/o | 2 2 | with | % | ano | æ | Count | æ |
| 12 12 12 12 12 12 12 12 | Age at first period | 10. | 26 | ļ ~ | | ! 4 | 1262 | | 365 | 6 P |
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| 15 15 15 15 15 15 15 15 | | 7 - | 2 7 | | ייייי | • < | 1000 | | 770 | , , |
| 15 15 15 15 15 15 15 15 | | # u | 610 | , 1 | 422 | | ,,,, | И и | 0 0 | י ר |
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| ths 1 | Short | Response | M/0 U | e l'ins | | Jterus | | | | |
| 1029 21.9 616 8.7 2224 9.0 562 1029 21.9 1634 13.1 6254 24.5 1729 1029 21.9 1639 15.5 3714 15.1 1181 1 24 16 10.9 15.5 3714 15.1 1181 1 3 | | Range | Count | - | Count | æ | TINO D | | 8 | |
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| older ol | | 25-29 | 73 | | マ | ö | 90 | | ഗ | 0 |
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| than 20 1072 22.9 956 13.6 3432 13.9 1039 ionnaire not entered 0 0.0 4 0.1 3 0.0 3 831 17.7 1376 19.6 4776 19.4 1265 | | | | | ,- -4 | ö | | | | 0 |
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| not entered 831 1/7 13/0 19/0 19/4 1203 | | ionnaire not | - 1 | | 4 | 0 | , | | • | O 1 |
| 4688 100.0 7004 100.0 24636 100.0 7390 1 | | not enter | Ď | · / T | <u> </u> | | | , i | 7 | 1 |
| 1 0000 00001 00001 0000 00001 0000 | | E | 1 4 | 6 | | 2 | 463 | 9 | יי | 2 |
| | | locat | 5 | 3 | 700 | 5 | 7 | | 3 | 3 |

Table 3.1 (Continued)
Baseline Characteristics by Study Component

Breast Cancer Risk Factors Data as of: 08/30/96 (continued)

| Short | Ousattion | Хентопие | HRT | | TATELLE THE TATELLE | | DM | - - - - | CAD- | Q |
|-------------------------------|--|---|---|---|---|-----------------------------|---|---|---|--|
| age. | Response | Mening | Count | Pet | Count | υ | onn | Pot | | Pct |
| Female relative breast cancer | 016 | No Yes Don't know Questionnaire not entered Value not entered | 1792 763 60 3 2070 | 38.2 16.3 1.3 0.0 44.2 | 2683 1071 99 5 | 38.3 15.3 0.1 44.9 | | 38.0 17.0 1.5 0.0 | 2646 1243 50 3442 | 35.8 16.8 0.7 0.1 |
| | Total | | 4638 | 100.0 | 7004 | 100.0 | 24636 | 100.0 | 7390 | 100.0 |
| | Question Response | Response Meaning | w/o Uterus Count Pc | erus Pet | with Uterus Count P | ט ו | Count | | CAD- | D |
| Breast Biopsy Ever | | No Yes Value not entered | 83 | 81.6 17.8 0.5 | 5941 1039 24 | 84.8 14.8 0.3 | 19955 4613 68 | 81.0 18.7 0.3 | 116 | 84.0 15.8 0.2 |
| | Total | | 4688 | 100.0 | 7004 | 100.0 | 24636 | 100.0 | 7390 | 100.0 |
| Short Verblage | Question Response | Response Meaning | w/o Uterus Count Pc | erus Pot | with Uterus Count Pe | ferus Serus Pot | Count | 1 0 | CAD Count Pc | D |
| One or both ovaries removed | To 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | No Yes, one Yes, one was taken out Yes, both Yes, both were taken out Yes, unknown number Yes, unknown number Yes, unknown number Yes, part of an ovary | 1919 1919 1919 1919 134 134 131 18 68 151 151 4688 | 2 2 2 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 6668 18668 1993 1993 1994 1997 1997 1997 1997 1997 1997 1997 | 95.2 | 17262 17262 1866 3840 3840 136 136 202 202 226 226 24636 | 7001 151 151 156 156 0.1 0.2 0.0 0.0 0.0 | 22449 22449 22449 23884 23884 23884 244 244 244 244 244 244 244 244 244 | 11.0 11.0 10.0 10.0 10.0 10.0 10.0 10.0 |
| | | | | | | | | | | |

Table 3.1 (Continued)
Baseline Characteristics by Study Component

CHD Risk Factors Data as of: 08/30/96

| | | | HRT | ! | HRT | | MO | | -CAD- | 9 |
|-----------------------------------|----------------------|--|------------------------|-------------|-------------------------|---------------|---------------|------------------|---------------|-------|
| Short Verbiage | Question Response | Response Meaning | w/o Uterus Count Pc | erus Pct | with Uterus Count P | erus Pct | Count | Pct | Count | Pct |
| Angina | 0 | NO N | 4349 | 92.8 | 6733 | 96.1 | 23491 | 95.4 | 7082 | 95.8 |
| | • | Questionnaire not entered | , , | 0.0 | # 4 " | 0.1 | 8 | 0.0 | , in | 0.1 |
| | | Value not entered | 23 | 0.5 | 33 | 5.0 | 124 | 0.5 | 32 | 0.4 |
| | Total | | 688 | 0 | 7004 | | 989 | | 7390 | 100.0 |
| | | | þ | | ĝ | | Ž | | Ĉ | ģ |
| Short | Ouestion | Response | w/o Uterus | 97.70 | with Oterus | | | | | |
| Verbiage | Response | Meaning | Count | Pct | Count | Pct | Count | Pct | Count | Pct |
| Heart attack ever | 0 | NO | 4548 | 97.0 | 9069 | 98.6 | 24268 | 98.5 | 7293 | 98.7 |
| | 1 | Yes | 140 | 3.0 | 86 | 1.4 | 36 | 1.5 | 97 | 1.3 |
| | Total | | 4688 | 100.0 | 7004 | 100.0 | 24636 | 100.0 | 7390 | 100.0 |
| | | | | | | | | | | |
| tion of | Ouestion | 20000000000000000000000000000000000000 | w/o Uterus | | with Uters | Officers | MQ | | -Q X D | 9 |
| Verblage | Response | Meaning | Count | Pct | | Pct | Count | Pct | Count | Pot |
| | 1 | | 1000 | 2 63 | 100 | 100 | 13633 | 1 1 1 2 | F F 0.3 | 3 45 |
| Current Antinypertensive Meds | | NO Yes | 31/0 1518 | 32.4 | 5452 1552 | 22.2 | 7007 | 28.5 | 3502 1888 | 25.5 |
| | | | | | 1 | 1 1 | 1 1,1 1 | 1 1 1 | 1 1 1 | 1 1 1 |
| | Total | | 4688 | 100.0 | 7004 | 100.0 | 24636 | 100.0 | 7390 | 100.0 |
| | | | | | | | | | | |
| | | | HRT | ! | | | MQ | 1 1 1 1 | ZC | -CAD |
| Short Verbiage | Question Response | Response Meaning | w/o Uterus Count Pc | erus Pet | with Ut Count | Uterus Pct | Count | Pot | Count | Pct |
| | | | 100 | 1 5 | | 100 | 1111 | 1 5 | 100 | 1 0 |
| current argu choresteror meds | | NO Yes | 355 | 7.6 | 396 | 5.7 | | 4. 5. 7. 89 . | | 5.0 |
| | Total | | | 100.0 | 7004 | 100.0 | 24636 | 100.0 | 7390 | 100.0 |
| | | | | | | | | | | |
| | | | HRT |) | HRT | } | MQ | | CAD- | 9 |
| Short | Question | Response | w/o Uterus Count Pc | Brus | with Uterus Count Po | erus Pet | Count | P | Count | Pat |
| | | | | | | | 1 1 | 1 | 1 | 1 1 |
| Family History of MI - Any Female | le | No : | 2817 | 60.1 | 4492 | 64.1 | 15875 | 64.4 | 4941 | 6.66 |
| | | Yes | 1154 | 9.6 | 2861 | 21.2 | 7331 | 6.17 0.0 | 1640 | 2.22 |
| | | bon t know Value not entered | 624 | 13.3 | 881 | 12.6 | 2939 | 11.9 | 657 | 9.9 |
| | Total | | 4688 | 100.0 | 7004 | 100.0 | 24636 | 100.0 | 7390 | 100,0 |
| | | | | | | | | • • | | |

Table 3.1 (Continued)
Baseline Characteristics by Study Component

CHD Risk Pactors Data as of: 08/30/96 (continued)

| | • | | HRT | | HRT | | MC | W | CAD- | 9 |
|---------------------------------------|----------------------|---------------------|------------------------|----------|------------------------|---------------|-------|--------|--------------|-------------|
| store Verblage | Question Response | Kesponse Meaning | w/o Uterus Count Pc | Pct | with Uterus Count P | erus Pet | Count | Pct | Count | Pot |
| Family History of MI - Any Female <55 | .le <55 | No No Yes | 1606 | 34.3 | 2335 | 33.3 | 8420 | 34.2 | 2690 | 36.4 |
| | | 'n | 150 | 3.2 | 222 | 3,2 | 775 | 3.5 | 234 | 3.2 |
| | | Value not entered | 2690 | 57.4 | 4189 | 59.8 | 14464 | 58.7 | 4138 | 26.0 |
| | Total | | 4688 | 100.0 | 7004 | 100.0 | 24636 | 100.0 | 7390 | 100.0 |
| | | | | | | | | | | |
| | | | HR | HRT | HRT | | Q | DW | CAD | 9 |
| smort Verbiage | Response | kesponse Meaning | W/o Uterus Count Pc | Pct | With Uterus Count P | erus Pet | Count | Pct | Count | Pct |
| | 1 1 1 1 | | | | 1010 | | 1 6 | | 1 0 | (|
| Family History of MI - Any Male | | No Yes | 2403 | 37.3 | 3822 | 54.6 6.4.6 | 13211 | 36.4 | 4081 2740 | 25.2 |
| | | Don't know | 105 | 2.2 | 136 | 1.6 | 2 10 | 2 2 | 168 | 2.3 |
| | | | 434 | 9.3 | 494 | 7.1 | 1918 | 7.8 | 401 | 5.4 |
| | Total | | 1 4 4 4 | 1001 | 7004 | 100 | 24636 | 100 | 7390 | 100 0 |
| | 10001 | | 000 | | 5 | | 2 | | | 2.00 |
| | | | | | | | i | | | |
| Short | Overtion | | w/o III- | 811.0 | with Itania | | NG | ! ! | C X D | 9 |
| Verbiage | Response | Meaning | Count | Pct | Count | Pot | Count | Pot | Count | Pct |
| Family History of MI - Any Male | 455 | No | 3452 | 73.6 | 5477 | 78.2 | 18902 | 76.7 | 5812 | 78.6 |
| | | Yes | 618 | 13.2 | 763 | 10.9 | 2885 | 11.7 | 887 | 12.0 |
| | | | 183 | 3.9 | 270 | 3.9 | 929 | 3.8 | 290 | 3.9 |
| | | Value not entered | 435 | ъ. Б. | 494 | 7.1 | 1920 | 7.8 | 401 | 5.4 |
| | Total | | 4688 | 100.0 | 7004 | 100.0 | 24636 | 100.0 | 7390 | 100.0 |
| | | | |)) | ,)) | | , | , |)) |) , , |

Table 3.2
Physical Measures by Study Component

| | HR | Т | DM | CaD | Total |
|--------------|----------------|--------------|--------------|--------------|--------------|
| | without uterus | with uterus | | | |
| Measure | | | | | |
| Weight (kg) | 78.6 (16.5) | 74.3 (15.9) | 76.3 (15.7) | 75.5 (14.6) | 75.9 (16.2) |
| Height (cm) | 161.6 (6.8) | 161.8 (6.5) | 162.4 (6.3) | 162.4 (6.0) | 162.3 (7.2) |
| BMI | 31.2 (44.7) | 28.5 (9.9) | 29.5 (23.5) | 28.6 (6.0) | 29.4 (21.6) |
| Systolic BP | 130.2 (18.2) | 127.0 (18.0) | 127.2 (17.3) | 127.4 (17.2) | 127.4 (18.0) |
| Diastolic BP | 77.0 (9.7) | 75.9 (9.5) | 76.1 (9.4) | 76.0 (9.5) | 76.1 (9.0) |

4. Follow-up and Retention

4.1. Overview

Routine follow-up contacts for the CT are designed to ascertain outcomes, assure safety, and assess and promote adherence to interventions. The follow-up schedule consists of annual clinic visits for all CT women, a semi-annual clinic visit (or contact after year 1) for HRT women and a semi-annual contact (visit, telephone or mail contact at CC discretion) for DM women, and a telephone contact at six weeks post-randomization for HRT women. The Protocol defines a 4-week interval surrounding the anniversary of randomization, or surrounding the six month time point post-randomization as the designated contact window.

4.2. Adherence to Follow-up Procedures

Table 4.1 - Adherence to Follow-up Procedures summarizes adherence to the follow-up protocol by time since randomization and study component. Women are considered to have been due for a contact if the corresponding 4-week contact window was completed by August 31, 1996, indicating that a contact should have occurred.

Current data indicate that approximately 95% of the first semi-annual visits (SAV-1) required to date have been conducted, with 73% occurring within the 4-week window overall; in 95% of these visits all of the required data collection procedures have been completed. For the first annual visit (AV-1), 94% have been conducted, 74% within the four week window and 78% have completed all data collection activities. For the second semi-annual contact (SAV-2), are 89% conducted, 66% in window and 91% complete. The corresponding statistics for the second annual visit (AV-2), are 90% conducted, 68% within window and 83% complete. For the third semi-annual visit we have 75% conducted, 60% within window and 87% complete. This represents a modest improvement in compliance with the procedures, particularly for SAV-2 and AV-2. Though the study strives for complete data whenever practical, the goal for conducting AV-1 is 98%. The current performance, while not yet reaching this goal, represents very high compliance on a whole.

There continue to be small differences in follow-up rates between study components, HRT rates being slightly higher than DM. While small, these differences are likely to persist as women on HRT must attend follow-up visits to stay on their hormones. This linkage between intervention and follow-up does not exist in DM so the perceived need to fulfill study requirements may be less in DM.

Follow-up for women participating in CaD typically begins at SAV-2, six months after their CaD randomization. A small number of women are being randomized at their second annual visit as CaD was not open in time for their AV-1. Their follow-up experience is not reflected in this table.

Clinical Center specific follow-up rates range from 83% to 100% for the SAV-1, 88% to 100% for the AV-1, 66% to 100% for the SAV-2, and 73% to 100% for the AV-2 among VCCs. The improvement seen in some of the more poorly performing clinics may be in part attributed to the focus brought to their issues by the PMC and the corrective actions taken by the CCs. For NCCs the range of performance is expectedly wider and unstable as the numbers are small; many of the

follow-up procedures are still not routine and their primary focus remains recruitment. For SAV-1, the proportion of required contacts conducted ranges from 72% to 100%. For AV-1 the range is 17% to 100% which is a considerable improvement over the previously reported low of 33%. Further discussion of monitoring and improving CC-specific performance may be found in Section 8 - Clinical Center Performance Summary.

Completeness of visits is lower than desirable, especially for AV-1 (78%) because of the critical measures of intervention effects collected at this point. Several factors contribute to this including lag time to key entry and assorted data problems, changes in study requirements, and the difficulties in obtaining lab results from outside organizations. Though there has been some improvement in this area, we continue to look for ways to increase our performance. Further streamlining may be required to move this to an acceptable range.

Completeness of visits is greater for DM than HRT, undoubtedly because the number of required procedures are fewer. HRT women are required to have annual mammograms and pelvic exams whereas DM women need only biennial mammography. As many of these activities require requesting information from local providers, there may be a noticeable delay in completing the required activities.

Table 4.2 - Consecutive Missed Contact Summary presents the number of women who have missed their first two, first three, or first four consecutive follow-up contacts. Overall approximately 1% of women due to have these visits have missed all of the required contacts. DM control women are missing consecutive visits twice as often as Intervention women. This difference does not create a significant problem for the study as long as outcome information can still be obtained.

4.3. Retention

Women may refuse to participate in continued intervention or follow-up activities. Women who withdraw from further intervention are strongly encouraged to participate in routine follow-up procedures to promote complete outcome ascertainment. Women who decline Protocol-defined safety related follow-up procedures are to be withdrawn from the intervention. Reports of women changing their participation status post-randomization and associated reasons are to be submitted on Form 7 - Participation Status.

Table 4.3 - Participation Status summarizes the current number of women who have asked to stop either their usual follow-up contacts or their intervention by study component and randomization assignment. With an average follow-up time of about 13 months, one percent are not being followed according to the normal procedures, usually at the woman's request. Procedures for maintaining contact, for conducting limited surveillance of health and vital status, and for reengaging these participants when appropriate are being implemented.

Currently 1107 (9.5%) of the 11,692 women randomized to HRT have discontinued use of study hormones indefinitely. Removing the 331 women who were originally randomized to ERT and moved to PERT, of whom 33% stopped hormones, we would have an intervention drop-out rate of 8.8% with an average of 12.4 months of follow-up, as compared to a design assumption of 6% for 12 months. This may underestimate the true one year drop-out rate because of the large number of

HRT participants with less than one year of follow-up. The drop-out rate among hysterectomized women is 9.9%, somewhat higher than that for women with an intact uterus (7.7% after removing those women who were changed from ERT to PERT by the December 1994 protocol change). In VCCs the drop-out rate is 12.9% with an average of 15.6 months of follow-up. For NCCs the rate is 4.1% with 7.4 months average follow-up time.

For DM, 2.1% of women randomized to the intervention have stopped the intervention activities, with 13 months of follow-up on average.

With only 6.8 months average follow-up, 7.9% of CaD participants are reported as having stopped intervention. If this result persists we would project an annual drop-out rate of 13.4% as compared to the 6% rate assumed in the design.

Table 4.4 - Reasons for Stopping Interventions summarizes the frequency of reported reasons for stopping interventions by study component. The most commonly cited reasons for stopping HRT are: intervention related issues (42%) and health reasons (31%). Personal reasons (35%) were the most often stated among DM stopping intervention, followed by other (36%), intervention (22%) and health reasons (19%). For CaD, intervention related issues are given most often (51%), particularly intervention associated symptoms and dislike of the pills.

Table 4.1
Adherence to Follow-up Procedures

| | Number due | Number Conducted | Number Conducted in Window | Number Fully Completed |
|----------------|------------|---------------------|----------------------------------|---------------------------|
| 6-week contact | 0070 | 05(0 (000) | | |
| HRT | 9279 | 8562 (92%) | 6925 (75%) | |
| SAV-1 | 21585 | 20455 (95%) | 15734 (73%) | 19432 (95%) |
| HRT | 7712 | 7439 (96%) | 6243 (81%) | 6423 (86%) |
| DM | 16564 | 15611 (94%) | 11662 (70%) | 15235 (98%) |
| Intervention | 6640 | 6283 (95%) | 4721 (71%) | |
| Control | 9924 | 9328 (94%) | 6941 (70%) | |
| AV-1 | 13826 | 13021 (94%) | 10167 (74%) | 10180 (78%) |
| HRT | 4788 | 4555 (95%) | 3629 (76%) | 3319 (73%) |
| DM | 10865 | 10210 (94%) | 7937 (73%) | 8129 (80%) |
| Intervention | 4358 | 4150 (95%) | 3268 (75%) | |
| Control | 6507 | 6060 (93%) | 4669 (72%) | |
| SAV-2 | 8391 | 7446 (89%) | 5526 (66%) | 6812 (91%) |
| HRT | 2885 | 2633 (91%) | 2036 (71%) | 2076 (79%) |
| DM | 6691 | 5891 (88%) | 4347 (65%) | 5603 (95%) |
| Intervention | 2685 | 2359 (88%) | 1735 (65%) | |
| Control | 4006 | 3532 (88%) | 2612 (65%) | |
| CaD | 3169 | 2951 (93%) | 2266 (72%) | |
| AV-2 | 4039 | 3616 (90%) | 2734 (68%) | 2995 (83%) |
| HRT | 1294 | 1168 (90%) | 877 (68%) | 810 (69%) |
| DM | 3295 | 2947 (89%) | 2239 (68%) | 2541 (86%) |
| Intervention | 1312 | 1178 (90%) | 903 (69%) | , , |
| Control | 1983 | 1769 (89%) | 1336 (67%) | |
| CaD | 826 | 738 (89%) | 580 (70%) | |

Table 4.1 (continued)

Adherence to Follow-up Procedures

| | Number due | Number Conducted | Number Conducted in Window | Number Fully Completed |
|--------------|------------|---------------------|----------------------------------|---------------------------|
| SAV-3 | 333 | 251 (75%) | 200 (60%) | 219(87%) |
| HRT | 133 | 111 (83%) | 95 (71%) | 85 (77%) |
| DM | 252 | 183 (73%) | 140 (56%) | 164 (90%) |
| Intervention | 97 | 69 (71%) | 54 (56%) | |
| Control | 155 | 114 (74%) | 86 (55%) | |
| CaD | 160 | 138 (86%) | 106 (66%) | |

Table 4.2
Consecutive Missed Contact Summary

| | Missing SAV-1, AV-1 | Missing SAV-1, AV-1, SAV-2 ¹ | Missing SAV-1, AV-1, SAV-2, AV-2 |
|--------------|---------------------|---|----------------------------------|
| HRT | 66 (1%) | 37 (1%) | 17 (1%) |
| DM | 161 (1%) | 90 (1%) | 38 (1%) |
| Intervention | 54 (1%) | 24 (1%) | 4 (<1%) |
| Control | 107 (2%) | 66 (2%) | 34 (2%) |

¹ Percentage based on those women due for only these contacts.

Table 4.3
Participation Status

| | Randomized | Stopped Follow-up | Stopped Intervention |
|------------------------------------|------------|-------------------|----------------------|
| HRT ¹ | 11692 | 127 (1%) | 1107 (9.5%) |
| Without Uterus | 4688 | 58 (1%) | 462 (9.9%) |
| With Uterus | 7004 | 69 (1%) | 645 (9.2%) |
| With Uterus and without ERT → PERT | 6673 | 60 (1%) | 536 (7.7%) |
| DM^2 | 24636 | 218 (1%) | |
| Intervention | 9867 | 89 (1%) | 211 (2.1%) |
| Control | 14769 | 129 (1%) | ` , |
| CaD^3 | 7390 | 31 (<1%) | 582 (7.9%) |

¹ Average follow-up time for HRT participants is 12.4 months.

² Average follow-up time for DM participants is 13.0 months.

³ Average follow-up time for CaD participants is 6.8 months.

Table 4.4
Reasons for Stopping Interventions

| Reasons ¹ | HRT (N = 1107) | DM (N = 211) | $\underline{\text{CaD }(N = 582)}$ |
|--|----------------|--------------|------------------------------------|
| Personal | 61 (6%) | 74 (35%) | 18 (3%) |
| Travel | 17 (2%) | 13 (6%) | 2 (<1%) |
| Study Procedures | 17 (2%) | 13 (6%) | 3 (1%) |
| Health | 340 (31%) | 39 (19%) | 77 (13%) |
| Experiencing Health problems or symptom' not due to Intervention | s 118 (11%) | 34 (16%) | 50 (9%) |
| Worried about health effects of medical test | s 3 (<1%) | 0 (0%) | 1 (<1%) |
| Worried about costs if adverse effects occur | 2 (<1%) | 0 (0%) | 0 (0%) |
| Advised not to participate by health care provider | 145 (13%) | 3 (1%) | 14 (2%) |
| Study conflicts with health care needs | 117 (11%) | 4 (2%) | 17 (3%) |
| Expected more care | 7 (1%) | 0 (0%) | 2 (<1%) |
| Intervention | 460 (42%) | 56 (27%) | 296 (51%) |
| Reports health problems or symptoms from WHI intervention | 399 (36%) | 12 (6%) | 207 (36%) |
| Problem with Clinic Practitioner or other Costaff | 6 (1%) | 1 (1%) | 0 (0%) |
| Doesn't like taking pills | 25 (2%) | 2 (1%) | 79 (14%) |
| Doesn't like DM requirements | 1 (<1%) | 34 (16%) | 0 (0%) |
| Problems with DM group Nutritionist or Group members | 2 (<1%) | 6 (3%) | 1 (<1%) |
| Doesn't like DM eating patterns | 1 (<1%) | 19 (9%) | 0 (0%) |
| Doesn't like randomized nature of intervention | 25 (2%) | 2 (1%) | 23 (4%) |
| Expected some benefit from intervention | 14 (1%) | 2 (1%) | 0 (0%) |
| Won't participate in safety procedures. | 4 (<1%) | 0 (0%) | 1 (<1%) |
| Other | 249 (23%) | 75 (36%) | 183 (31%) |
| Not Given | 138 (13%) | 30 (14%) | 77 (13%) |

¹ Multiple reasons may be reported for a woman

5. HRT Intervention Status

5.1 Adherence to Medication

Adherence to medications is assessed by medication rates and changes to study-prescribed hormones. Medication rates are determined by data collected at routine follow-up clinic visits using the actual or estimated number of tablets remaining in the returned bottles and the length of the interval between visits. For this report, women are considered to be adherent to HRT if they have taken 80% or more of their randomized medication for the given interval.

Protocol-defined changes to study medications occur because of hormone related symptoms, other adverse effects or hysterectomy. These changes can be to add progesterone, change to an open-label hormone, or change to another blinded study hormone (from PERT to ERT after a hysterectomy).

Table 5.1 - HRT Adherence Summary presents the proportion of women who were adherent to study hormones (excluding the 331 women with a uterus originally randomized to ERT) by time since randomization and study arm and several demographic and other risk factors. Two approaches were used to handle women for whom pill counts or estimates were not available. The first column assumes that women without a pill count for this time point (9% at SAV-1, 14% at AV-1 and 22% at SAV-2) are non-adherent (taking < 80% of pills), giving an underestimate. The second column presents data limited to those women from whom we obtained a pill count or an estimated count (about 7% of participant gave estimates). Since women who do not come to clinic or who forget to bring their bottles may be less adherent than average, this latter number may be an overestimate. This implies that the six month adherence rate is between 82% and 90%, and the annual rate is between 73% and 85%, essentially unchanged from our last report. Year 2 rates are between 68% and 88% at SAV-2 and between 63% and 86% at AV-2.

Under the best case scenario, adherence rates have decreased only 4.5% from SAV-1 to AV-2. The number of women missing pill counts has increased from 8.6% to 26% during this interval which suggests that the decline in adherence may be steeper.

Education and ethnicity have a strong effect on adherence with lower adherence among minority women and those women having eight or fewer years of education as does the performance of the 6-week phone contact. Age and hysterectomy status are not strong predictors of adherence.

As an additional measure of pill-taking and participant tracking we have looked at the number of women who are still considered active in the study but have not had pills dispensed with in the last 215 days (one bottle's-worth of pills). Of the 6,442 women who are active and have been randomized for at least 215 days, 254 (3.9%) have not had a bottle dispensed within the last 215 days. The variability between CCs indicates this may be a tracking issue. Eight VCCs and 14 NCCs have fewer than 3% of women missing medications whereas one VCC and six NCCs have greater than 9%.

Finally, as was noted in Section 4.3 - Retention and Tables 4.3 and 4.4, 1107 (9.5%) HRT women have discontinued study medications entirely. The primary reasons given for stopping study medications were aspects of the intervention (42%) and health issues (31%).

Adherence to HRT was the primary focus of the May 1996 meeting for CC clinic practitioners, gynecologists, and Principal Investigators. Early identification of potential adherence problems and coping strategies were presented. Further discussion is planned for the November 4 - 5 Annual General Meeting. In addition, the PMC has begun to target their monitoring and site visits to those clinics whose participants exhibit poorer adherence.

5.2 Symptoms

Women may report symptoms potentially related to HRT at routine follow-up contacts or through non-routine contacts with the CC. The primary symptoms being monitored are bleeding and breast changes.

Bleeding is a common problem for women with an intact uterus in the first year on study. *Table 5.2 - Reports of Bleeding* presents the number of reports of bleeding among women with a uterus by contact type. Twenty-four percent reported bleeding at their six week contact, 30% at SAV-1, 20% at AV-1, 16% at SAV-2, 14% at AV-2 and 15% at SAV-3.

Table 5.3 - Other HRT Symptoms summarizes the breast changes at the 6 week, semi-annual and annual visits and at non-routine contacts. Note that a delay in implementing the data collection procedures for these symptoms reduces the available sample size compared to other displays. Reports of breast changes (new lumps, nipple discharge or skin changes) are slightly higher in hysterectomized women than in women with a uterus at all follow-up time points. While 8% to 10% of women are reporting these symptoms at 6 weeks, by AV-1 the prevalence is reduced to 3% to 4% by AV-1 and appears to be levelling off.

5.3 Unblinding

Unblinding to the HRT randomization assignment is indicated for management of severe symptoms and for serious adverse effects. See WHI Manuals, Vol. 2 - Procedures, Section 5.4 - Managing Symptoms, Section 5.5 - Major Health Problems and Section 5.6 - Unblinding for details. As of August 31, 1996, 563 (4.8%) HRT participants' assignment had been unblinded. The primary reason for unblinding is persistent bleeding at 6 months post-randomization. In these instances, the protocol allows for the consulting gynecologist to be unblinded to better assess the need for an endometrial aspiration. The remaining cases represent unblinding for other symptoms, medical conditions, provider request and clinic error, 56 cases in total.

5.4 Laboratory Monitoring

The endometrial monitoring plan for HRT has been modified to reflect the revised HRT design. In the new plan, 5-6% of women with a uterus will have an endometrial aspiration at follow-up years 3, 6, and 9. Initially all ERT women with a uterus were to have aspirations annually. Since only a small number of HRT participants had reached their annual visit before the change in protocol, there are very few results available for routine monitoring (see Table 5.4 - Results of Endometrial Monitoring). At AV-1, hyperplasia was present in 9 (5%) of women biopsied (8 cystic, 1 adenomatous). Abnormalities occurred among 31 (9%) women having unscheduled biopsies. Nineteen of the 31 cases of cystic hyperplasia and all of the adenomatous cases occurred in women with a uterus originally randomized to ERT (see Section 5.5 - ERT to PERT Transition).

5.5 ERT to PERT Transition

By December 16, 1994, 331 non-hysterectomized women had been randomized to ERT. In January 1995, these women were personally contacted by the clinic and informed of the change in protocol. The CCC also sent information to all HRT participants regarding this change. Beginning in February 1995 and as soon thereafter as the local IRB approvals were in place, these women were transitioned to PERT. The transition required several steps including signing a new consent, having an endometrial aspiration if on ERT for eight or more months, taking MPA 10mg for 30 days and then changing to the PERT arm. All of these 331 women were unblinded but no other HRT participants were unblinded as a result. Clinics made every reasonable effort to keep all staff except the Clinic Practitioner blinded to these women's randomization assignments.

The initial response of these women to the change was positive and accepting. After the transition began, however, many women experienced symptoms, particularly bleeding. Though this was expected, many women have found it troublesome. To date 109 (33%) of these women have discontinued their assigned hormones.

Endometrial aspirations performed for these women (85 at AV-1, 129 unscheduled) have yielded 26 positive results (see *Table 5.4*): 19 with cystic hyperplasia, 5 with adenomatous hyperplasia and 2 having adenomatous hyperplasia with atypia. These results were included in the discussion above, accounting for all but thirteen of the abnormalities.

Table 5.1 **HRT Adherence Summary**

| | All HRT Participants ¹ | | Participants : | with Pill Counts 1 |
|------------------------------|-----------------------------------|-------------------------|----------------|--------------------|
| | N | % Adherent ² | N | % Adherent |
| SAV-1 | 7381 | 81.8 | 6748 | 89.5 |
| <u>Age</u> | | | | |
| 50 -54 | 1350 | 78.4*** | 1210 | 87.4** |
| 55-59 | 1670 | 81.5 | 1522 | 89.4 |
| 60-69 | 3079 | 83.8 | 2840 | 90.8 |
| 70-79 | 1282 | 81.2 | 1176 | 88.5 |
| Ethnicity | | | | |
| Minority | 1350 | 71.6*** | 1174 | 82.4*** |
| White | 6016 | 84.1 | 5561 | 91.0 |
| <u>Education</u> | | | | |
| 0-8 Years | 208 | 69.7*** | 1 7 7 | 81.9*** |
| Some H.S. or diploma | 1835 | 80.7 | 1678 | 88.3 |
| Any school after H.S. | 5280 | 82.7 | 4840 | 90.2 |
| Hysterectomy | | | | |
| No | 4293 | 82.6 [*] | 3937 | 90.1 |
| Yes | 3088 | 80.7 | 2811 | 88.7 |
| Had 6-week Call ³ | | | | - |
| No | 427 | 64.9*** | 336 | 82.4*** |
| Yes | 6015 | 83.1 | 5563 | 89.8 |
| AV-1 | 4457 | 73.3 | 3825 | 85.4 |
| <u>Age</u> | | | | |
| 50-54 | 780 | 70.9 | 670 | 82.5 |
| 55-59 | 953 | 73.9 | 814 | 86.5 |
| 60-69 | 1965 | 74.6 | 1707 | 85.8 |
| 7 0-79 | 759 | 71.5 | 634 | 85.6 |
| <u>Ethnicity</u> | | | | |
| Minority | 705 | 61.8*** | 571 | 76.4* ** * |
| White | 3746 | 75.4 | 3248 | 86.9 |
| <u>Education</u> | | | | |
| 0-8 Years | 126 | 56.3** * | 97 | 73.2** |
| Some H.S. or diploma | 1154 | 71.8 | 973 | 85.2 |
| Any school after H.S. | 3152 | 74.6 | 2736 | 86.0 |
| <u>Hysterectomy</u> | | | | |
| No | 2502 | 74.3 | 2156 | 86.2 |
| Yes | 1955 | 71.9 | 1669 | 84.2 |
| Had 6-week Call ³ | | | | |
| No | 293 | 55.6*** | 213 | 76.5** * |
| Yes | 3225 | 74.8 | 2804 | 86.1 |

^{*}p < 0.05; ** p < 0.01; *** p < 0.001

¹ Excludes 331 ERT-PERT participants and includes participants that stopped intervention/meds.
² If no collection then considered < 80% adherent.
³ Only includes participants randomized after 7/15/94.

Table 5.1 (continued) **HRT Adherence Summary**

| | All HRT Participants ¹ | | Participants with Pill Counts | |
|------------------------------|-----------------------------------|-------------------------|-------------------------------|---------------|
| | N | % Adherent ² | N | Adherent |
| SAV-2 | 2254 | 68.4 | 1993 | 87.7 |
| <u>Age</u> | | | | |
| 50-54 | 459 | 64.7° | 349 | 85.1 |
| 55-59 | 528 | 68.0 | 405 | 88.6 |
| 60-69 | 1149 | 71.1 | 920 | 88.8 |
| 70-79 | 418 | 65.8 | 319 | 86.2 |
| Ethnicity | | | | |
| Minority | 352 | 61.6 ** | 263 | 82.5** |
| White | 2200 | 69.5 | 1728 | 88.5 |
| Education Education | | | | |
| 0-8 Years | 73 | 53.4° | 50 | 78.0 |
| Some H.S. or diploma | 674 | 69.3 | 526 | 88.8 |
| Any school after H.S. | 1797 | 68.8 | 1409 | 87.7 |
| Hysterectomy | | | | |
| No | 1341 | 71.0** | 1068 | 89.1 |
| Yes | 1213 | 65.6 | 925 | 86.1 |
| Had 6-week Call ³ | | | | |
| No | 171 | 52.6*** | 112 | 80.4° |
| Yes | 1444 | 70.7 | 1166 | 87.6 |
| AV-2 | 1125 | 62.7 | 827 | 85.2 |
| <u>Age</u> | | | | |
| 50-54 | 182 | 58.8 | 126 | 84.9 |
| 55-59 | 267 | 61.8 | 194 | 85.1 |
| 60-69 | 521 | 65.1 | 398 | 85.2 |
| 70-79 | 1 5 5 | 60.6 | 109 | 86.2 |
| Ethnicity | | | | |
| Minority | 132 | 55.3 | 94 | 77.7 * |
| White | 991 | 63.7 | 731 | 86.3 |
| Education Education | | | | |
| 0-8 Years | 39 | 38.5** | 25 | 60.0*** |
| Some H.S. or diploma | 303 | 64.0 | 235 | 82.6 |
| Any school after H.S. | 780 | 63.6 | 567 | 87.5 |
| <u>Hysterectomy</u> | | | | |
| No | 587 | 65.2 | 440 | 87.0 |
| Yes | 538 | 59.9 | 387 | 83.2 |
| Had 6-week Call ³ | | | | |
| No | 25 | 40.0 | 13 | 76.9 |
| Yes | 161 | 58.4 | 113 | 83.2 |
| | | | | |

*p < 0.05; ** p < 0.01; *** p < 0.001

¹ Excludes 331 ERT-PERT participants and includes participants that stopped intervention/meds.
² If no collection then considered < 80% adherent.

³ Only includes participants randomized after 7/15/94.

Table 5.2

Reports of Bleeding

Data as of: 08/30/96

| Data | as | UI. | 06/00/20 |
|------|----|-----|----------|
| | | | |

| | with Uterus |
|-------------------------------------|--------------|
| 6 Week HRT Phone Call | |
| Number with an HRT Safety Interview | 5763 |
| Number with Bleeding | 1403 (24.3%) |
| Semi-Annual Visit 1 | |
| Number Having Visit | 4470 |
| Number with Bleeding | 1323 (29.6%) |
| Annual Visit 1 | |
| Number Having Visit | 2701 |
| Number with Bleeding | 530 (19.6%) |
| Semi-Annual Visit 2 | |
| Number Having Visit | 1544 |
| Number with Bleeding | 240 (15.5%) |
| Annual Visit 2 | |
| Number Having Visit | 689 |
| Number with Bleeding | 95 (13.8%) |
| Semi-Annual Visit 3 | |
| Number Having Visit | 71 |
| Number with Bleeding | 11 (15.5%) |
| Non Routine Visit | |
| Number Having Visit | 7004 |
| Number with Bleeding | 759 (10.8%) |
| | |

Table 5.3
Other HRT Symptoms

Data as of: 08/30/96

| - | without Uterus | with Uterus |
|-------------------------------------|----------------|-------------|
| 6 Week HRT Phone Call | | |
| Number with an HRT Safety Interview | 3794 | 5763 |
| Number with Breast Changes | 307 (8.1%) | 562 (9.8%) |
| Semi-Annual Visit 1 | | |
| Number with an HRT Safety Interview | 2876 | 4286 |
| Number with Breast Changes | 180 (6.3%) | 331 (7.7%) |
| Annual Visit 1 | | |
| Number with an HRT Safety Interview | 1805 | 2631 |
| Number with Breast Changes | 69 (3.8%) | 122 (4.6%) |
| Semi-Annual Visit 2 | | |
| Number with an HRT Safety Interview | 1029 | 1431 |
| Number with Breast Changes | 26 (2.5%) | 53 (3.7%) |
| Annual Visit 2 | | |
| Number with an HRT Safety Interview | 500 | 714 |
| Number with Breast Changes | 17 (3.4%) | 28 (3.9%) |
| Semi-Annual Visit 3 | | |
| Number with an HRT Safety Interview | 51 | 79 |
| Number with Breast Changes | 2 (3.9%) | 5 (6.3%) |
| Non Routine Visit | | |
| Number with an HRT Safety Interview | 4688 | 7006 |
| Number with Breast Changes | 26 (0.6%) | 85 (1.2%) |

Table 5.4
Results of Endometrial Monitoring

| | With Uterus ¹ | ERT to PERT |
|-------------------------------------|--------------------------|---------------------------------------|
| AV-1 | | · · · · · · · · · · · · · · · · · · · |
| No endometrial tissue | 24 (13%) | 7 (8%) |
| Insufficient specimen | 19 (1%) | 9 (11%) |
| Normal atrophic endometrium | 67 (35%) | 26 (31%) |
| Normal secretory endometrium | 2 (1%) | 2 (2%) |
| Normal proliferative endometrium | 53 (28%) | 28 (33%) |
| Cystic hyperplasia present | 8 (4%) | 5 (6%) |
| Adenomatous hyperplasia present | 1 (1%) | 1 (1%) |
| Other | 4 (2%) | 2 (2%) |
| Value not entered | 12 (6%) | 5 (6%) |
| AV-2 | | |
| Insufficient specimen | 5 (19%) | 1 (8%) |
| Normal atrophic endometrium | 12 (46%) | 7 (58%) |
| Normal proliferative endometrium | 7 (27%) | 3 (25%) |
| Other | 1 (3.8%) | 1 (8%) |
| Value not entered | 3 (12%) | 1 (8%) |
| Non-Routine | | |
| No endometrial tissue | 30 (9%) | 16 (12%) |
| Insufficient specimen | 24 (7%) | 13 (10%) |
| Normal atrophic endometrium | 111 (32%) | 50 (39%) |
| Normal secretory endometrium | 10 (3%) | 4 (3%) |
| Normal proliferative endometrium | 100 (29%) | 44 (34%) |
| Cystic hyperplasia present | 21 (6%) | 13 (10%) |
| Cystic hyperplasia with atypia | 2 (1%) | 1 (1%) |
| Adenomatous hyperplasia present | 4 (1%) | 4 (3%) |
| Adenomatous hyperplasia with atypia | 2 (1%) | 2 (2%) |
| Atypia Present | 1 (<1%) | 0 |
| Cancer Present | 2 (1%) | 0 |
| Other | 16 (5%) | 9 (7%) |
| Value not entered | 23 (7%) | 9 (7%) |

¹-Includes women transitioned from ERT to PERT. ERT-to-PERT women account for all of the adenomatous hyperplasias and 19 of the 31 cases of cystic hyperplasia.

6. DM Modification Intervention Status

6.1 Timeliness of Intervention

Because the Dietary Modification intervention is delivered in a group format, the first major hurdle in conducting the DM Intervention is starting groups. Ideally, all women in the Intervention arm should start attending group sessions within 12 weeks of randomization. Waiting times of 20 weeks or more are a concern because of the lesser amount of intervention that can be delivered before the first Annual Visit. Once randomized, the CC nutritionists make monthly contacts (phone or mail) with DM Intervention participants to discuss group starting times. Women waiting four weeks receive a copy of *Your New Eating Style*, a brief overview of the intervention.

Table 6.1 - Timeliness of Intervention Group Formation describes the waiting time for women to begin their first intervention session by clinic group. Currently 7,605 (77%) of the 9,867 women randomized to DM Intervention have begun sessions. Of these 10% waited 20 weeks or more for their first session. Of the 2,262 women waiting to begin sessions, 19% have waited 20 weeks or more. Of the women randomized to DM Intervention who have reached their first annual visit 136 (3.0%) have not started intervention (data not shown).

Table 6.1
Timeliness of Intervention Group Formation

| | VCC | NCC | Total |
|----------------------------|------------|------------|------------|
| Randomized to Intervention | 6172 | 3695 | 9867 |
| Intervention Started | 5146 (83%) | 2459 (66%) | 7605 (77%) |
| Waited ≥ 20 weeks | 517 (10%) | 248 (10%) | 765 (10%) |
| Awaiting Intervention | 1026 (17%) | 1236 (34%) | 2262 (23%) |
| Waiting ≥ 20 weeks | 231 (22%) | 191 (16%) | 422 (19%) |

6.2 Adherence to the Intervention Program

Adherence to the DM intervention is assessed by a variety of methods including attendance to group intervention sessions, completing make-up sessions, and by self-monitoring reports of fat, fruit, vegetable, and grain scores. Sessions 4, 8, and 12, and 16 are used as indicators of performance during year one of the intervention.

Table 6.2 - Intervention Program Adherence Summary describes the performance of DM Intervention women at these four sessions. Attendance is relatively high over the first 6 (weekly) sessions with 85% attending Session 4. When the sessions move to every other week beginning at Session 7, attendance declines to 78% at Session 8, 70% at Session 12 and 68% at Session 16. Experience from the Women's Health Trial suggests that attendance will decline when the time interval between sessions becomes longer. However, attendance in the WHT was found to be positively correlated with attaining fat intake goals, emphasizing the value of promoting attendance.

Completion is defined as session attendance after taking into account make-up sessions. Make-up sessions may be completed by attending a different group or by individual or group sessions with a group nutritionist. The effect of make-up compared to regular group attendance on attaining intervention goals is unknown. Individual make-up sessions do increase staff workload and clinics are encouraged to minimize the need for individual make-up sessions. Approximately 90% of make-up sessions are conducted individually or in small groups other than guest attendance at regular sessions. Completion is above 90% for Sessions 4, 8, and 12, indicating that make-up sessions increase over time.

Another measure of intervention participation is the number of consecutive sessions that participants miss, which discriminates between occasional and sequential absences. Of the 3,535 women who have been assigned to all 18 sessions of the year 1 intervention, 7.4% have missed 3 or more consecutive sessions (data not shown). Additional data for 4-8 missed consecutive sessions are as follows: 5.6% for 4 or more sessions, 4.6% for 5 or more sessions, 3.6% for 6 or more sessions, 2.9% for 7 or more sessions, and 2.4% for 8 or more sessions. Note that consecutive missed session data are reported cumulatively, i.e., participants missing eight sessions are also counted as missing seven, six, five, four, and three sessions. When participants miss 3 consecutive sessions the nutritionists activate a restart plan (Interrupted Participation) with participants to partake in as much of the intervention as possible and ultimately attend sessions again.

Self-monitored fat gram scores are collected and recorded at each session beginning with Session 3 so that participants and nutritionists can track progress toward the goal. The CCC monitors fat scores collected at Sessions 4, 8, 12, and 16, with the expectation that participants should have attained their fat gram goals by Session 8. Nutritionists provide additional assistance, at a minimum after Sessions 8, 12, and 16 to women exceeding their fat gram goals by 25% (i.e., at 125% or greater of their goal). Performance of self-monitoring was also found to be correlated positively with attending sessions and attaining fat intake goals in the WHT so it is important for participants to maintain self-monitoring.

Self-monitoring scores were obtained from 93% of participants at Session 4, 88% at Session 8, 84% at Session 12, and 80% at Session 16. Because missing values are potential indicators of poorer adherence, the complete collection of these data is a priority. Among those women with scores available, the average reported fat score was lower than the average goal beginning at Session 4 and continuing through Session 18 (data not shown). At Session 12, 75% of women who reported scores were less than their goal and 90% were within 5 grams of achieving their goal (within approximately 25% of goal, data not shown).

Self-monitored fruit/vegetable and grain scores are collected and recorded at each session beginning at Session 8 so that participants and nutritionists can track progress toward the goal. The CCC monitors fruit/vegetable and grain scores at Sessions 8, 12, and 16, with the expectation that participants should have attained their fruit/vegetable goal of 5 servings per day by Session 12 and their grain goal of 6 servings per day by Session 16. Over 84% of women provided fruit/vegetable and grain scores at Session 12. The average scores were 5.5 servings per day of fruit and vegetable and 5.1 servings per day of grain.

On average, 2.1% of the women randomized to the DM Intervention have stopped participating in the intervention (see Section 4.3). The major reasons given for stopping intervention include personal, the intervention itself, health, and other.

Table 6.3 - Intervention Program Adherence Summary - Participants with Revised (Lower) Fat Gram Goals displays the performance of DM Intervention who received lower fat gram goals per protocol change in implemented September 15, 1995. (The rationale for this protocol change is described in Section 6.3 - Comparison of Dietary Intake.) Approximately 4,144 women have been assigned to fat gram goals from the revised algorithm. Of these, 818 have had the opportunity to attend Intervention sessions through Session 16. Over 90% of these women completed fat scores at Sessions 4, with fewer reporting at sessions 8, 12, and 16. A lower percentage of women with revised fat gram goals are reporting scores compared to women with the original fat gram goals. The average fat score at Session 4 was 28.0, Session 8 was 24.4, at Session 12 was 23, and at Session 16 was 23.1. These self-reports compare favorably with the results from all Intervention women (Table 6.2), showing a reduction ranging from 1.7 to 3.9 grams of fat (Session 4, 16).

Table 6.4 - Intervention Program Maintenance Summary describes the performance of DM Intervention women at the Year 2 and 3 quarterly maintenance sessions, which start Year 2 of the Intervention program. Attendance and completion and percentage fat scores reported are lower in Summer than other seasons. Peer group activities are optional, though encouraged, when Maintenance starts in Year 2. Peer-led groups are a way to supplement the required nutritionist-led maintenance sessions with the intent of increased participant self-management and motivation. On average, 3.7% of women per month have had a peer group contact of those who have progressed beyond Year 1 Intervention (data not shown). This low number is likely due to staff workload impeding initiation and oversight of peer groups. Increasing peer group contacts is a goal of the Lead Nutritionists and CCC and a discussion topic on regional Lead Nutritionist calls.

6.3 Comparison of Dietary Intake

Dietary intake in DM is assessed at baseline and post-randomization in both the Intervention and Control arms with three instruments: the FFQ, the 4DFR, and the 24 Hour Recall (24 HR). Supplement intake is reported herein from Current Supplement information, which is obtained at selected time points in conjunction with current medications. All women in the DM complete an FFQ during screening (baseline) and at their first annual clinic visit. All other dietary assessments are administered on subsamples of participants.

Table 6.5 - Nutrient Intake Monitoring displays baseline, year one, and year two data by treatment arm for percent energy from fat, total energy, total fat, and saturated fat for DM studywide. Table 6.6 - Nutrient Intake Monitoring among Minority Women provides a parallel summary for minorities (all races and ethnicities combined). Table 6.7 - Nutrient Intake Monitoring in Obese Women provides a parallel summary for obese women (BMI>32.3 kg/m²). Table 6.8 - Nutrient Intake in Women Age 70-79 provides a parallel summary for women aged 70-79. Table 6.9 - Nutrient Intake Monitoring for Women with Revised Fat Gram Goals provides baseline and year one nutrient data for % energy from fat, total energy, total fat, and saturated fat for women who have received revised (lower) fat gram goals. Arithmetic means and standard deviations are presented for all nutrients.

Non-normally distributed data (total fat and saturated fat) were transformed logarithmically before testing for treatment differences by t-test.

Percent energy from fat at Year 1 among DM Intervention women, measured by the FFQ, is 24.4% on average, higher than the DM Intervention design assumption of 21.7% fat. Percent energy from fat at Year 1, measured by the 4DFR, is 21.7%. One can speculate that the differences between the FFQ and 4DFR (and between the FFQ and 24HR) are due to intrinsic differences in how data are collected by each of the instruments, an observation that is common to food reporting methodology. Other reasons for the discrepancy might be due to a cohort effect within the 4DFR sample population or that FFQ data are list-based estimates of food intake whereas 4DFR and 24HR data are reflective of actual food eaten. The post-Baseline 24HR data are collected six months after randomization and thus reflect early intervention effects of the DM. Percent energy from fat, studywide, in the Intervention group (21.0%) is significantly lower than in the Control group (31.8%) as measured in the 24HR (Table 6.5). Year 1 24HR are too few (21) to report.

FFQ data for year 2 are now available, although the sample size is relatively small (n=356 Intervention, n=545 Control). Fat intake (% energy) in the Intervention Group increased 1% and decreased <1% in the Control Group, on average, compared to year one.

The differences between treatment arms at years one and two are less than desirable, owing largely to the lower reported fat intake in the Controls and potentially to the Intervention group not achieving the design goals. Note that the baseline FFQ percentage of calories from fat averages are inflated, probably by about 3-4%, due to the use of the FFQ as a screening tool.

Tables 6.6, 6.7, and 6.8 report nutrient intake data from subgroups of DM women (minority, obese, aged 70-79). The three subgroups were selected due to potential risk of not adhering to the intervention or where little background data are available in the literature. A few general comments are offered about these data. In general, percent fat intake (FFQ) at Years 1 and 2 DM Intervention is higher among minority women than studywide. Nothing is notable about the data from obese women. Scientifically, a concern about obese women is underreporting of fat intake. We cannot interpret these data to refute or support this concern as there is not a way to truly measure fat intake. Regarding women aged 70-79, their mean fat intake is similar to studywide fat intake.

Thirty-one percent of DM Intervention women, studywide, had less than or equal to 20% energy from fat at Year 1 as measured by the FFQ (Table 6.5), yet 75% of DM Intervention women, studywide, met their fat gram goal at session 12, as assessed by self-monitoring (data not shown). We attribute this discrepancy in part to incomplete recording and in part to an apparent underestimation of fat intake by the self-monitoring process. Although 75% of women reported fat scores ≤ goal, only 84% of women recorded scores. This incomplete recording of scores may lead to a selection bias and overestimation of percentage of women who meet their fat goal. The self-monitoring process underestimation is likely due to a variety of factors, such as limitations of the self-monitoring instruments (by not having all-inclusive lists of foods) and recording bias. This apparent underestimation of fat intake by self-monitoring provided the basis for a decision to change the fat gram goal algorithm used for self-monitoring (implemented Sept. 15, 1996). The DM Intervention goal remains 20% energy from fat but the self-monitoring tool goals are adjusted

downward to approximately 15% of estimated post dietary change energy to account for this bias (most individual goals are now in the range 24-26 grams of fat daily).

Table 6.9 reports data from women who have a revised (lower) fat gram goal, were randomized after 6/15/95, and had the first annual visit on or before 9/1/96. There is a 12% difference in % energy from fat (FFQ) between Control and Intervention at Annual Visit 1 in these women compared to an 11% difference for women with the original fat gram goals compared to their Controls. With relatively little data yet, and no data to temporally compare original fat gram goals with revised fat gram goals, it is early to draw conclusions about the effectiveness of the revised fat gram goals towards meeting DM design assumptions though the observed value is in the range we had hoped to see. Although some women with revised fat gram goals were randomized before 6/15/96, we selected a randomization date of 6/15/95 for this analysis to provide a comparison group who had not been waiting an unusually long time from randomization to the beginning of intervention.

Table 6.10 - Body Weight displays baseline and year one body weight data per treatment arm for DM participants studywide, and for minority and obese participants and those aged 70-79. Modest weight loss would be consistent with adhering to a low-fat dietary pattern as the average intervention energy intake usually does not reach the pre-intervention level. Body weight, on average studywide, decreased 2.7 kg in the Intervention group and decreased 0.8 kg in the Control group one year after randomization. The difference between arms at year 1 is statistically significant ($p \le 0.05$) for all participants, obese participants, and participants aged 70-79. The difference between arms at Year 1 is not statistically significant for minority women.

Table 6.11 - Selected Percentiles for Key Nutrients Based on FFQ Data from AV-1 and Table 6.12 - Selected Percentiles for Key Nutrients Based on FFQ Data from AV-1 for Women with Revised Fat Gram Goals present estimates of the upper and lower tails of the frequency distribution for reported intake of selected nutrients: % energy from fat; total energy; total fat; saturated fat; and calcium from dietary and total sources. These are intended to assist in evaluating participant safety, particularly the effect of the dietary intervention on nutrient intakes compared to the control group.

Total energy intake appears to be similar in the Intervention and Control groups studywide for the lower 5th and 10th percentiles, though both are lower than is nutritionally optimal for weight-maintaining women in the WHI age range. Percent energy from fat intake appears to be adequate for women in the DM Intervention even at the lower end of the frequency distribution (based on the 1993 FAO recommendations of a minimum of 15% energy from fat for adults). Assuming that polyunsaturated fat accounts for at least one-third of the total fat intake, we can extrapolate that essential fatty acid consumption is probably adequate.

Calcium intake, from both dietary and supplement sources, does not appear to be adversely impacted by the DM Intervention. If anything, calcium intake is slightly higher in DM Intervention women than Control women. Women at the lower ends of the frequency distribution in either the Control or Intervention groups are not meeting the RDA for calcium. (Calcium intake from antacids is assumed to be one dosage per day.)

Table 6.2
Intervention Program Adherence Summary

Intervention Session

| | 4 | 8 | 12 | 16 |
|-----------------------|------|------|------|------|
| Participants Assigned | 7461 | 7071 | 5589 | 4341 |
| Attendance | 85% | 78% | 70% | 68% |
| Completion | 98% | 95% | 91% | 88% |
| Self-Monitoring | | | | |
| Fat gram | | | | |
| Score obtained | 93% | 88% | 84% | 80% |
| Average score | 29.7 | 26.6 | 26.2 | 27.0 |
| Average goal | 28.5 | 28.7 | 29.9 | 31.2 |
| Fruit/Vegetable | | | | |
| Score obtained | n.a | 85% | 84% | 80% |
| Average score | n.a | 5.5 | 5.6 | 5.6 |
| Grain | | | | |
| Score obtained | n.a | 85% | 84% | 80% |
| Average score | n.a | 4.9 | 5.2 | 5.4 |

Table 6.3
Intervention Program Adherence Summary

Participants with Revised (Lower) Fat Gram Goals¹

Intervention Session

| | 4 | 8 | 12 | 16 | |
|-----------------------|-------|------|------|------|--|
| Participants Assigned | 3809 | 3437 | 2006 | 818 | |
| Attendance | 84% | 75% | 67% | 64% | |
| Completion | 97% | 93% | 86% | 79% | |
| Self-Monitoring | | | | | |
| Fat gram | | | | | |
| Score obtained | 91% | 84% | 79% | 68% | |
| Average score | 28.0 | 24.4 | 23.2 | 23.1 | |
| Average goal | 24.7 | 24.7 | 24.8 | 24.9 | |
| Fruit/Vegetable | | | | | |
| Score obtained | n.a. | 82% | 79% | 68% | |
| Average score | n.a. | 5.6 | 5.7 | 5.9 | |
| Grain | | | | | |
| Score obtained | n.a. | 82% | 78% | 68% | |
| Average score | n.a. | 5.0 | 5.2 | 5.3 | |
| Average score | II.a. | 3.0 | 3.2 | 3.3 | |

¹ Implemented in women starting DM Intervention after September 15, 1995.

Table 6.4
Intervention Program Maintenance Summary

Maintenance Session - Year 21

| | Spring | Summer | <u>Fall</u> | Winter |
|-----------------------|--------|--------|-------------|--------|
| Participants Assigned | 2212 | 2710 | 1082 | 1578 |
| Attendance | 66% | 62% | 68% | 64% |
| Completion | 83% | 77% | 89% | 85% |
| Self-Monitoring | | | | |
| Fat gram | | | | |
| Score obtained | 71% | 64% | 78% | 74% |
| Average score | 27.1 | 27.0 | 26.7 | 28.1 |
| Average goal | 32.1 | 32.2 | 31.1 | 31.7 |
| Fruit/Vegetable | | | | |
| Score obtained | 71% | 64% | 78% | 74% |
| Average score | 5.9 | 6.0 | 6.0 | 6.1 |
| Goal | | | | |
| Grain | | | | |
| Score obtained | 71% | 64% | 78% | 74% |
| Average score | 5.7 | 5.6 | 5.4 | 5.7 |
| Goal | | | | |

¹ VCC only

Table 6.4 (continued)
Intervention Program Maintenance Summary

Maintenance Session - Year 3¹

| | Spring | Summer | Fall | Winter | | | | |
|-----------------------|---------------------------------|--------|---------------------------------|---------------------------------|--|--|--|--|
| Participants Assigned | <100 (data <u>not</u> shown) | 337 | <100 (data <u>not</u> shown) | <100 (data <u>not</u> shown) | | | | |
| Attendance | - | 58% | - | _ | | | | |
| Completion | - | 64% | _ | _ | | | | |
| Self-Monitoring | - | | | | | | | |
| Fat Gram | | | | | | | | |
| Score obtained | _ | 52% | - | _ | | | | |
| Average score | | 27.0 | _ | _ | | | | |
| Average goal | _ | 30.6 | | _ | | | | |
| Fruit/Vegetable | _ | 52% | _ | - | | | | |
| Score obtained | - | 6.2 | - | _ | | | | |
| Goal | - | 5.0 | _ | _ | | | | |
| Grain | | | | | | | | |
| Score obtained | | 52% | _ | _ | | | | |
| Average Score | _ | 5.6 | _ | _ | | | | |
| Goal | _ | 6 | _ | _ | | | | |

VCC only

Table 6.5
Nutrient Intake Monitoring

| | | Interventio | n | | Control | | Difference | | |
|-----------------------------|------------|-------------|------|-------|-------------|------|-------------------|-----|----------------------|
| | N | Mean | SD | N | Mean | SD | Mean ¹ | SE | p-value ² |
| % Energy from Fat | | | | | | | | | |
| FFQ Baseline | 9867 | 38.8 | 5.0 | 14769 | 38.9 | 5.0 | 0.1 | 0.1 | 0.29 |
| FFQ Year 1 ³ | 4040 | 24.4 | 7.3 | 5882 | 35.5 | 7.1 | 11.0 | 0.1 | 0.00 |
| FFQ Year 2 ⁴ | 356 | 25.5 | 7.6 | 545 | 34.9 | 7.0 | 9.3 | 0.5 | 0.00 |
| 4DFR Baseline | 380 | 33.6 | 6.3 | 626 | 33.2 | 6.4 | 0.3 | 0.4 | 0.41 |
| 4DFR Year 1 | 172 | 21.7 | 6.8 | 277 | 32.5 | 6.4 | 10.8 | 0.6 | 0.00 |
| 24 Hr Recall, post-Baseline | 73 | 21.0 | 9.1 | 105 | 31.8 | 7.2 | 10.8 | 1.2 | 0.00 |
| 24 Hr Recall Year I | 21 | 21.3 | 6.2 | 35 | 33.0 | 9.7 | 11.7 | 2.4 | 0.00 |
| Total Energy (kcal) | | | | | | | } | | |
| FFQ Baseline | 9867 | 1812 | 727 | 14769 | 1801 | 711 | 11 | 9 | 0.32 |
| FFQ Year 1 | 4040 | 1495 | 530 | 5882 | 1576 | 629 | 80 | 12 | 0.00 |
| FFQ Year 2 | 356 | 1546 | 524 | 545 | 1603 | 593 | 57 | 39 | 0.00 |
| 4DFR Baseline | 380 | 1751 | 456 | 626 | 1744 | 445 | 7 | 29 | 0.85 |
| 4DFR Year 1 | 172 | 1465 | 331 | 277 | 1637 | 449 | 172 | 40 | 0.00 |
| 24 Hr Recall, post-Baseline | 7 3 | 1557 | 385 | 105 | 1685 | 499 | 128 | 69 | 0.14 |
| 24 Hr Recall, Year 1 | 21 | 1493 | 378 | 35 | 1505 | 457 | 13 | 118 | 0.92 |
| Total Fat (g) | | | | | | | | | |
| FFQ Baseline | 9867 | 78.9 | 36.0 | 14769 | 78.5 | 35.1 | 0.4 | 0.5 | 0.57 |
| FFQ Year 1 | 4040 | 40.8 | 21.0 | 5882 | 63.1 | 30.9 | 22.2 | 0.6 | 0.00 |
| FFQ Year 2 | 356 | 43.7 | 19.6 | 545 | 63.4 | 30.0 | 19.7 | 1.8 | 0.00 |
| 4DFR Baseline | 380 | 66.1 | 24.7 | 626 | 65.3 | 23.6 | 0.8 | 1.6 | 0.53 |
| 4DFR Year I | 172 | 34.9 | 13.0 | 277 | 60.0 | 22.5 | 25.1 | 1.9 | 0.00 |
| 24 Hr Recall, post-Baseline | 73 | 37.9 | 22.4 | 105 | 60.6 | 24.6 | 22.7 | 3.6 | 0.00 |
| 24 Hr Recall, Year I | 21 | 35.8 | 15.6 | 35 | 57.3 | 27.9 | 21.5 | 6.6 | 0.01 |
| Saturated Fat (g) | | | | | | | | | |
| FFQ Baseline | 9867 | 27.9 | 13.8 | 14769 | 27.6 | 13.4 | 0.2 | 0.2 | 0.28 |
| FFQ Year I | 4040 | 14.2 | 7.9 | 5882 | 22.3 | 11.8 | 8.1 | 0.2 | 0.00 |
| FFQ Year 2 | 356 | 15.1 | 7.2 | 545 | 22.4 | 11.5 | 7.3 | 0.7 | 0.00 |
| 4DFR Baseline | 380 | 22.0 | 9.3 | 626 | 21.5 | 8.8 | 0.5 | 0.6 | 0.38 |
| 4DFR Year 1 | 172 | 11.0 | 4.8 | 277 | 20.1 | 8.5 | 9.1 | 0.7 | 0.00 |
| 24 Hr Recall, post-Baseline | 73 | 12.2 | 7.6 | 105 | 19.8 | 8.9 | 7.6 | 1.3 | 0.00 |
| 24 Hr Recall, Year I | 21 | 11.8 | 7.1 | 35 | 18.6 | 9.9 | 6.8 | 2.5 | 0.01 |

¹ Absolute difference

² P-values are based on testing in the natural log scale except for % Energy from Fat.

 $^{^3}$ 1245 (31%) Intervention women had \leq 20% energy from fat at year 1.

⁴ 84 (24%) Intervention women had ≤ 20% energy from fat at year 2.

Table 6.6
Nutrient Intake Monitoring in Minority Women

| | 1 | Intervention | | | Control | | | Differen | ce |
|----------------------------|------|--------------|------|------|---------|------|-------------------|----------|----------------------|
| | N | Mean | SD | N | Mean | SD | Mean ¹ | SE | p-value ² |
| % Energy from Fat | | | | 1 | | | | | |
| FFQ Baseline | 1714 | 39.4 | 5.2 | 2550 | 39.6 | 5.1 | 0.2 | 0.2 | 0.29 |
| FFQ Year 1 ³ | 526 | 27.1 | 8.1 | 731 | 35.9 | 7.5 | 8.8 | 0.4 | 0.00 |
| FFQ Year 2 ⁴ | 32 | 29.4 | 8.7 | 41 | 34.1 | 6.9 | 4.8 | 1.8 | 0.01 |
| 4DFR Baseline | 138 | 33.7 | 6.3 | 238 | 34.0 | 6.3 | 0.3 | 0.7 | 0.67 |
| 4DFR Year 1 | 16 | 24.0 | 6.3 | 41 | 32.9 | 7.0 | 8.9 | 2.0 | 0.00 |
| 24 Hr Recall post-Baseline | 8 | 25.0 | 8.7 | 14 | 32.9 | 7.3 | 7.8 | 3.5 | 0.04 |
| Total Energy (kcal) | | | | | | | | | |
| FFQ Baseline | 1714 | 1765 | 818 | 2550 | 1758 | 825 | 7 | 26 | 0.70 |
| FFQ Year 1 | 526 | 1426 | 577 | 731 | 1439 | 713 | 13 | 38 | 0.43 |
| FFQ Year 2 | 32 | 1552 | 563 | 41 | 1482 | 666 | 71 | 147 | 0.84 |
| 4DFR Baseline | 138 | 1704 | 459 | 238 | 1732 | 450 | 27 | 48 | 0.49 |
| 4DFR Year 1 | 16 | 1350 | 303 | 41 | 1507 | 480 | 157 | 129 | 0.40 |
| 24 Hr Recall post-Baseline | 8 | 1213 | 352 | 14 | 1627 | 448 | 414 | 185 | 0.06 |
| Total Fat (g) | | | | | | | | | |
| FFQ Baseline | 1714 | 77.9 | 39.8 | 2550 | 78.0 | 40.7 | 0.1 | 1.3 | 0.97 |
| FFQ Year 1 | 526 | 43.4 | 24.4 | 731 | 58.7 | 34.8 | 15.3 | 1.8 | 0.00 |
| FFQ Year 2 | 32 | 50.6 | 23.1 | 41 | 57.2 | 29.4 | 6.6 | 6.3 | 0.42 |
| 4DFR Baseline | 138 | 64.3 | 22.8 | 238 | 66.2 | 24.1 | 2.0 | 2.5 | 0.48 |
| 4DFR Year 1 | 16 | 35.7 | 10.7 | 41 | 56.8 | 23.5 | 21.1 | 6.1 | 0.01 |
| 24 Hr Recall post-Baseline | 8 | 32.5 | 10.5 | 14 | 58.8 | 18.9 | 26.3 | 7.3 | 0.00 |
| Saturated Fat (g) | | | | | | | | | |
| FFQ Baseline | 1714 | 26.2 | 14.2 | 2550 | 26.2 | 14.9 | 0.1 | 0.5 | 0.87 |
| FFQ Year 1 | 526 | 14.6 | 8.8 | 731 | 19.7 | 12.6 | 5.1 | 0.6 | 0.00 |
| FFQ Year 2 | 32 | 16.6 | 7.6 | 41 | 19.8 | 11.2 | 3.2 | 2.3 | 0.32 |
| 4DFR Baseline | 138 | 20.6 | 8.4 | 238 | 21.2 | 8.7 | 0.6 | 0.9 | 0.56 |
| 4DFR Year 1 | 16 | 10.8 | 3.8 | 41 | 18.3 | 8.4 | 7.5 | 2.2 | 0.00 |
| 24 Hr Recall post-Baseline | 8 | 9.9 | 4.0 | 14 | 20.3 | 7.7 | 10.4 | 2.9 | 0.00 |

¹ Absolute difference

² P-values are based on testing in the natural log scale except for % Energy from Fat.

³ 102 (19%) Minority Intervention women had \leq 20% energy from fat at year 1.

 $^{^4}$ 4 (12%) Minority Intervention women had \leq 20% energy from fat at year 2.

Table 6.7

Nutrient Intake Monitoring in Obese¹ Women

| | I | nterventio | on | | Control | | 1 | Difference | | |
|----------------------------|-------------|------------|------|------|---------|------|-------------------|------------|----------------------|--|
| | N | Mean | SD | N | Mean | SD | Mean ² | SE | p-value ³ | |
| % Energy from Fat | | | | | | | | | | |
| FFQ Baseline | 2438 | 39.8 | 5.4 | 3665 | 39.8 | 5.3 | 0.0 | 0.1 | 0.74 | |
| FFQ Year 1⁴ | 934 | 25.3 | 7.9 | 1327 | 36.0 | 7.6 | 10.7 | 0.3 | 0.00 | |
| FFQ Year 2 ⁵ | 75 | 26.2 | 7.6 | 116 | 35.0 | 7.4 | 8.9 | 1.1 | 0.00 | |
| 4DFR Baseline | 380 | 33.6 | 6.3 | 626 | 33.2 | 6.4 | 0.3 | 0.4 | 0.41 | |
| 4DFR Year 1 | 172 | 21.7 | 6.8 | 277 | 32.5 | 6.4 | 10.8 | 0.6 | 0.00 | |
| 24 Hr Recall post-Baseline | 18 | 24.6 | 12.0 | 22 | 34.8 | 5.1 | 10.2 | 2.8 | 0.00 | |
| Total Energy (kcal) | | | | | | | | | | |
| FFQ Baseline | 2438 | 1978 | 833 | 3665 | 1929 | 777 | 49 | 21 | 0.04 | |
| FFQ Year 1 | 934 | 1550 | 589 | 1327 | 1651 | 708 | 100 | 28 | 0.01 | |
| FFQ Year 2 | 75 | 1550 | 550 | 116 | 1537 | 606 | 13 | 87 | 0.09 | |
| 4DFR Baseline | 380 | 1751 | 456 | 626 | 1744 | 445 | 7 | 29 | 0.85 | |
| 4DFR Year 1 | 172 | 1465 | 331 | 277 | 1637 | 449 | 172 | 40 | 0.00 | |
| 24 Hr Recall | 18 | 1401 | 404 | 22 | 1707 | 510 | 305 | 148 | 0.06 | |
| Total Fat (g) | | | | | | | | | | |
| FFQ Baseline | 2438 | 88.3 | 42.5 | 3665 | 86.0 | 39.1 | 2.3 | 1.1 | 0.07 | |
| FFQ Year 1 | 934 | 44.1 | 24.8 | 1327 | 67.1 | 34.9 | 23.0 | 1.3 | 0.00 | |
| FFQ Year 2 | 75 | 45.4 | 21.9 | 116 | 61.5 | 31.3 | 16.1 | 4.1 | 0.00 | |
| 4DFR Baseline | 380 | 66.1 | 24.7 | 626 | 65.3 | 23.6 | 0.8 | 1.6 | 0.53 | |
| 4DFR Year 1 | 172 | 34.9 | 13.0 | 277 | 60.0 | 22.5 | 25.1 | 1.9 | 0.00 | |
| 24 Hr Recall post-Baseline | 18 | 40.6 | 28.6 | 22 | 65.7 | 20.7 | 25.1 | 7.8 | 0.00 | |
| Saturated Fat (g) | | | | | | | | | | |
| FFQ Baseline | 2438 | 31.2 | 16.1 | 3665 | 30.5 | 14.9 | 0.7 | 0.4 | 0.12 | |
| FFQ Year 1 | 934 | 15.3 | 9.0 | 1327 | 23.8 | 13.2 | 8.5 | 0.5 | 0.00 | |
| FFQ Year 2 | 75 | 15.7 | 7.9 | 116 | 21.6 | 11.5 | 5.9 | 1.5 | 0.00 | |
| 4DFR Baseline | 380 | 22.0 | 9.3 | 626 | 21.5 | 8.8 | 0.5 | 0.6 | 0.38 | |
| 4DFR Year I | 172 | 11.0 | 4.8 | 277 | 20.1 | 8.5 | 9.1 | 0.7 | 0.00 | |
| 24 Hr Recall post-Baseline | 18 | 12.5 | 10.2 | 22 | 22.5 | 7.4 | 10.0 | 2.8 | 0.00 | |

¹ Obesity defined as BMI > 32.3 kg/m².

² Absolute difference

³ P-values are based on testing in the natural log scale except for % Energy from Fat.

⁴ 263 (28%) Obese Intervention women had \leq 20% energy from fat at year 1.

⁵ 15 (20%) Obese Intervention women had \leq 20% energy from fat at year 2.

Table 6.8
Nutrient Intake Monitoring in Women Aged 70-79

| | <u>I</u> 1 | Intervention | | | Control | | Difference | | |
|----------------------------|------------|--------------|------|------|---------|------|--|------|----------------------|
| | N | Mean | SD | N | Mean | SD | Meani | SE | p-value ² |
| % Energy from Fat | | | • | | | | | | |
| FFQ Baseline | 1350 | 38.5 | 4.6 | 2017 | 38.4 | 4.7 | 0.1 | 0.2 | 0.48 |
| FFQ Year 13 | 541 | 25.4 | 7.1 | 806 | 35.5 | 6.6 | 10.1 | 0.4 | 0.00 |
| FFQ Year 24 | 45 | 27.8 | 8.6 | 62 | 36.0 | 6.4 | 8.2 | 1.5 | 0.00 |
| 4DFR Baseline | 48 | 31.6 | 5.6 | 74 | 33.6 | 6.4 | 2.0 | 1.1 | 0.07 |
| 4DFR Year 1 | 22 | 22.1 | 4.9 | 39 | 33.8 | 5.8 | 11.7 | 1.5 | 0.00 |
| 24 Hr Recall post-Baseline | 12 | 20.3 | 9.3 | 11 | 30.8 | 5.9 | 10.5 | 3.3 | 0.00 |
| Total Energy (kcal) | | | | | | | | | |
| FFQ Baseline | 1350 | 1688 | 656 | 2017 | 1681 | 676 | 8 | 23 | 0.53 |
| FFQ Year 1 | 541 | 1433 | 547 | 806 | 1536 | 634 | 103 | 33 | 0.02 |
| FFQ Year 2 | 45 | 1499 | 552 | 62 | 1511 | 550 | 12 | 108 | 0.38 |
| 4DFR Baseline | 48 | 1559 | 358 | 74 | 1614 | 390 | 55 | 70 | 0.45 |
| 4DFR Year I | 22 | 1351 | 294 | 39 | 1522 | 395 | 170 | 97 | 0.12 |
| 24 Hr Recall post-Basetine | 12 | 1644 | 394 | 11 | 1743 | 443 | 99 | 175 | 0.59 |
| Total Fat (g) | | | | | | | | | |
| FFQ Baseline | 1350 | 72.7 | 31.5 | 2017 | 72.1 | 32.2 | 0.7 | 1.1 | 0.42 |
| FFQ Year 1 | 541 | 40.8 | 22.2 | 806 | 61.4 | 30.2 | 20.5 | 1.5 | 0.00 |
| FFQ Year 2 | 45 | 45.4 | 19.2 | 62 | 61.1 | 26.0 | 15.7 | 4.6 | 0.00 |
| 4DFR Baseline | 48 | 55.6 | 18.7 | 74 | 61.4 | 21.9 | 5.9 | 3.8 | 0.17 |
| 4DFR Year 1 | 22 | 32.9 | 9.1 | 39 | 57.7 | 19.1 | 24.8 | 4.3 | 0.00 |
| 24 Hr Recall post-Baseline | 12 | 40.1 | 26.2 | 11 | 60.1 | 22.8 | 20.0 | 10.3 | 0.02 |
| Saturated Fat (g) | | | | | | | i | | |
| FFQ Baseline | 1350 | 25.7 | 12.1 | 2017 | 25.3 | 12.4 | 0.4 | 0.4 | 0.20 |
| FFQ Year 1 | 541 | 14.4 | 8.3 | 806 | 21.7 | 11.6 | 7.4 | 0.6 | 0.00 |
| FFQ Year 2 | 45 | 15.7 | 7.2 | 62 | 21.2 | 9.8 | 5.6 | 1.7 | 0.00 |
| 4DFR Baseline | 48 | 18.7 | 7.2 | 74 | 20.5 | 8.7 | 1.8 | 1.5 | 0.32 |
| 4DFR Year 1 | 22 | 10.5 | 4.3 | 39 | 19.9 | 7.3 | 9.4 | 1.7 | 0.00 |
| 24 Hr Recall post-Baseline | 12 | 11.8 | 7.2 | 11 | 20.4 | 10.4 | 8.6 | 3.7 | 0.01 |

Absolute difference

² P-values are based on testing in the natural log scale except for % Energy from Fat.

 $^{^3}$ 134 (25%) Intervention women aged 70-79 had \leq 20% energy from fat at year 1.

⁴ 7 (16%) Intervention women aged 70-79 had \leq 20% energy from fat at year 2.

Table 6.9

Nutrient Intake Monitoring For Women With Revised Fat Gram Goals

| | Intervention ¹ | | Control ² | | | Difference | | | |
|---------------------|---------------------------|------|----------------------|------|------|-------------|-------------------|-----|----------------------|
| | N | Mean | SD | N | Mean | SD | Mean ³ | SE | p-value ⁴ |
| % Energy from Fat | | | | | | | | | |
| FFQ Baseline | 5861 | 38.8 | 5.0 | 9250 | 38.8 | 4.9 | 0.02 | 0.1 | 0.84 |
| FFQ Year 1 | 440 | 24.1 | 7.4 | 984 | 36.1 | 6.9 | 12.0 | 0.4 | 0.00 |
| Total Energy (kcal) | | | | | | | | | |
| FFQ Baseline | 5861 | 1802 | 705 | 9250 | 1800 | 7 11 | 2 | 12 | 0.69 |
| FFQ Year 1 | 440 | 1456 | 474 | 984 | 1599 | 644 | 143 | 34 | 0.00 |
| Total Fat (g) | | | | | | | | | |
| FFQ Baseline | 5861 | 78.3 | 34.7 | 9250 | 78.2 | 35.0 | 0.1 | 0.6 | 0.70 |
| FFQ Year 1 | 440 | 39.1 | 19.8 | 984 | 65.0 | 32.3 | 25.9 | 1.7 | 0.00 |
| Saturated Fat (g) | | | | | | | , | | |
| FFQ Baseline | 5861 | 27.7 | 13.3 | 9250 | 27.6 | 13.5 | 0.1 | 0.2 | 0.44 |
| FFQ Year 1 | 440 | 13.4 | 7.5 | 984 | 22.8 | 12.5 | 9.5 | 0.6 | 0.00 |

¹ Intervention group is defined as women randomized to Intervention after 6/15/95 that have revised fat gram goals.

² Control group is defined as women randomized to Control after 6/15/95.

³ Absolute difference

⁴ P-values are based on testing in the natural log scale except for % Energy from Fat.

Table 6.10 Body Weight

| | Intervention | | | Control | | | Difference | | |
|---------------------------------|--------------|------|------|----------|------|------|-------------------|-----|----------------------|
| Body Weight (kg) | N | Mean | SD | N | Mean | SD | Mean ¹ | SE | p-value ² |
| All Participants | | | | | | | | | |
| Baseline | 9867 | 76.5 | 16.1 | 14769 | 76.2 | 15.9 | 0.3 | 0.2 | 0.17 |
| Year 1 | 4093 | 73.8 | 16.5 | 5981 | 75.4 | 16.0 | 1.7 | 0.3 | 0.00 |
| Year 2 | 1200 | 74.1 | 16.6 | 1791 | 75.2 | 16.1 | 1.0 | 0.6 | 0.10 |
| Minority Participants | | | | <u> </u> | | | | | |
| Baseline | 1714 | 80.3 | 18.0 | 2550 | 79.6 | 18.2 | 0.6 | 0.6 | 0.25 |
| Year 1 | 542 | 79.7 | 19.5 | 773 | 79.3 | 18.1 | 0.4 | 1.0 | 0.69 |
| Year 2 | 119 | 79.5 | 18.8 | 171 | 77.4 | 16.4 | 2.1 | 2.1 | 0.30 |
| Obese Participants ³ | | | | | | | | | |
| Baseline | 2438 | 96.8 | 14.1 | 3665 | 96.2 | 13.8 | 0.7 | 0.4 | 0.06 |
| Year I | 949 | 92.9 | 14.8 | 1358 | 94.1 | 12.8 | 1.2 | 0.6 | 0.05 |
| Year 2 | 255 | 92.9 | 13.3 | 373 | 92.6 | 13.0 | 0.2 | 1.1 | 0.82 |
| Participants Aged 70-79 | | | | | | | | | |
| Baseline | 1350 | 72.1 | 13.8 | 2017 | 72.1 | 13.7 | 0.0 | 0.5 | 1.00 |
| Year 1 | 551 | 69.4 | 13.9 | 825 | 72.0 | 14.8 | 2.6 | 0.8 | 0.00 |
| Year 2 | 141 | 70.2 | 15.7 | 223 | 71.5 | 14.7 | 1.3 | 1.6 | 0.42 |

¹ Absolute difference

² P-values are based on testing in the natural log scale except for % Energy from Fat.

 $^{^{3}}$ Obesity defined as BMI > 32.2 kg/m².

 ${\bf Table~6.11}$ Selected Percentiles for Key Nutrients Based on FFQ Data from AV-1

| Intervention | 5% | 10% | 50% | 90% | 95% |
|---------------------|------|------|--------------|-------|-------|
| % Energy from Fat | 14.4 | 15.9 | 23.5 | 34.2 | 38.2 |
| Total Energy (kcal) | 747 | 891 | 1446 | 2136 | 2390 |
| Total Fat (g) | 16.5 | 19.8 | 36.8 | 65.8 | 78.6 |
| Saturated Fat (g) | 5.3 | 6.5 | 12.6 | 23.5 | 28.0 |
| Calcium FFQ (mg) | 272 | 345 | 700 | 1356 | 1571 |
| Total Calcium (mg) | 282 | 366 | 812 | 1730 | 2138 |
| Control | | | | | |
| % Energy from Fat | 23.4 | 26.4 | 35.6 | 44.3 | 47.1 |
| Total Energy (kcal) | 725 | 862 | 1493 | 2369 | 2703 |
| Total Fat (g) | 23.8 | 29.7 | 57. 7 | 101.9 | 119.0 |
| Saturated Fat (g) | 7.8 | 9.8 | 20.2 | 37.3 | 43.9 |
| Calcium FFQ (mg) | 235 | 300 | 627 | 1219 | 1427 |
| Total Calcium (mg) | 250 | 321 | 718 | 1595 | 1928 |

Table 6.12
Selected Percentiles for Key Nutrients Based on FFQ Data from AV-1
For Women with Revised Fat Gram Goals

| Intervention ¹ | 5% | 10% | 50% | 90% | 95% |
|---------------------------|------|------|------|-------|-------|
| % Energy from Fat | 14.7 | 15.5 | 22.8 | 34.0 | 38.4 |
| Total Energy (kcal) | 814 | 927 | 1432 | 2065 | 2309 |
| Total Fat (g) | 17.1 | 19.7 | 35.2 | 60.2 | 75.6 |
| Saturated Fat (g) | 5.4 | 6.3 | 11.7 | 21.5 | 26.3 |
| Calcium FFQ (mg) | 273 | 344 | 717 | 1343 | 1496 |
| Total Calcium (mg) | 278 | 374 | 828 | 1723 | 1973 |
| Control ² | | | | | |
| % Energy from Fat | 24.2 | 27.2 | 36.1 | 44.9 | 47.1 |
| Total Energy (kcal) | 757 | 899 | 1507 | 2405 | 2771 |
| Total Fat (g) | 26.0 | 31.1 | 59.6 | 106.0 | 121.3 |
| Saturated Fat (g) | 8.4 | 10.5 | 20.3 | 37.6 | 45.6 |
| Calcium FFQ (mg) | 250 | 305 | 640 | 1255 | 1471 |
| Total Calcium (mg) | 268 | 321 | 764 | 1634 | 1915 |

¹ Intervention group is defined as women randomized to Intervention after 6/15/95 that have revised fat gram goals.

² Control group is defined as women randomized to Control after 6/15/95.

7. CaD Intervention Status

7.1 Adherence to Supplements

Adherence to CaD study supplements is determined using the same procedures and definitions as HRT. See Section 5.1 - Adherence to Medications for details.

Table 7.1 - CaD Adherence Summary presents the current experience among all CaD participants who have had at least one follow-up visit for CaD. In calculating adherence among all CaD participants, women who are missing this adherence information are classified as non-adherent (consuming <80% of expected tablets). This provides an underestimate of adherence. Adherence is also shown among all women who have provided an adherence measure. This is likely to overestimate adherence somewhat. Thus, at SAV-2, the true value is likely to be between 46% and 58%. Age, ethnicity and income are emerging as predictors of adherence with younger and minority women having lower adherence. Interestingly, lower income women have better adherence rates than upper income women. Education may also be a factor as some of the initial estimates show large but non-significant effects. CaD participants who are also participants in HRT are more adherent than DM only women. This is likely associated more with pill-taking behavior than with any interaction between the interventions. More importantly, even the most optimistic estimate is much lower than anticipated, requiring corrective action.

Table 7.2 - CaD Drop-out Rate Summary provides a display of participants who have reported stopping the CaD intervention at any time post-randomization broken down by the same risk factors. A drop-out rate of 6% after one year (at AV-2) was assumed in the design. With an average of 7 months of follow-up, the current estimate is 7.9%. Assuming a constant drop-out rate, we would project an annual rate of 13.4%, well beyond the design value.

There is a noteworthy range among clinics in the proportion of women who are considered active in the study and are due for resupply of their supplements but have not received them (range is 1% to 34%). This variability is affected by tracking problems, delays in reporting drop-outs, or dose reductions.

The CaD Advisory Committee has discussed the adherence problems and recommended several approaches that are under development, including: asking for additional changes in the tablet formulation; adding a 4 week post-randomization phone contact to assess and encourage adherence; and incorporating a taste-test during screening. Some information on the effect of these efforts should be available for our next semi-annual report.

Table 7.1 CaD Adherence Summary

| | Cab Adiletence Building | | | | |
|-----------------------|-----------------------------------|-------------------------|---------------------------------------|------------|--|
| | All CaD Participants ^t | | Participants with Counts ¹ | | |
| | N | % Adherent ² | N | % Adherent | |
| SAV-2 | 3169 | 46.1 | 2505 | 58.3 | |
| <u>Age</u> | | | | | |
| 50-54 | 664 | 39.6*** | 506 | 52.0*** | |
| 55-59 | 732 | 43.0 | 567 | 55.6 | |
| 60-69 | 1332 | 49.5 | 1081 | 61.1 | |
| 70-79 | 441 | 50.3 | 351 | 63.2 | |
| Ethnicity | | | | | |
| Minority | 379 | 35.1*** | 277 | 48.0*** | |
| White | 2788 | 47.6 | 2227 | 59.6 | |
| Education | | | | | |
| 0-8 Years | 40 | 47.5 | 29 | 65.5 | |
| Some H.S. or diploma | 731 | 47.7 | 595 | 58.7 | |
| Any school after H.S. | 2390 | 45.5 | 1874 | 58.1 | |
| Income | | | | | |
| < \$10,000 | 117 | 53.8** | 101 | 62.4 | |
| \$10,000-\$19,999 | 388 | 49.5 | 319 | 60.2 | |
| \$20,000-\$34,999 | 859 | 47.8 | 692 | 59.4 | |
| \$35,000-\$49,999 | 655 | 45.8 | 520 | 57.7 | |
| \$50,000-\$74,999 | 59 1 | 45.2 | 472 | 56.6 | |
| \$75,000-\$99,999 | 233 | 45.5 | 174 | 60.9 | |
| \$100,000-\$149,999 | 136 | 33.1 | 89 | 50.6 | |
| \$150,000 or more | 63 | 28.6 | 43 | 41.9 | |
| <u>HRT</u> | | | | | |
| Yes | 1223 | 56.0*** | 1092 | 62.7*** | |
| Hysterectomy | 499 | 53.7 | 438 | 61.2 | |
| No Hysterectomy | 724 | 57.6 | 654 | 63.8 | |
| No | 1946 | 39.8 | 1413 | 54.8 | |
| <u>DM</u> | | | | | |
| Yes | 2465 | 43.4*** | 1872 | 57.2 | |
| Intervention | 973 | 43.4 | 743 | 56.8 | |
| Control | 1492 | 43.5 | 1129 | 57.5 | |
| No | 704 | 55.3 | 633 | 61.5 | |
| HRT/DM | 519 | 57.0 | 459 | 64.5 | |

Includes participants that have stopped intervention/meds.
 If no collection then considered < 80% adherent.

^{*} p < 0.05 ** p < 0.01 *** p < 0.001

Table 7.1 (continued) **CaD Adherence Summary**

| | All CaD Participants ¹ | | Participants with Counts ¹ | |
|-----------------------|-----------------------------------|-------------------------|---------------------------------------|------------|
| - | N | % Adherent ² | N | % Adherent |
| <u>AV-2</u> | 826 | 41.0 | 601 | 56.4 |
| Age | | | | |
| 50-54 | 189 | 39.2 | 135 | 54.8 |
| 55-59 | 228 | 38.2 | 172 | 50.6 |
| 60-69 | 324 | 42.9 | 235 | 59.1 |
| 70-79 | 85 | 45.9 | 59 | 66.1 |
| Ethnicity | | | | |
| Minority | 75 | 30.7 | 48 | 47.9 |
| White | 751 | 42.1 | 553 | 57.1 |
| Education | | | | |
| 0-8 Years | 7 | 14.3 | 5 | 20.0 |
| Some H.S. or diploma | 196 | 45.4 | 146 | 61.0 |
| Any school after H.S. | 620 | 40.0 | 449 | 55.2 |
| Income | | | | |
| < \$10,000 | 27 | 44.4 | 19 | 63.2 |
| \$10,000-\$19,999 | 99 | 48.5 | 75 | 64.0 |
| \$20,000-\$34,999 | 199 | 43.7 | 151 | 57.6 |
| \$35,000-\$49,999 | 179 | 40.2 | 130 | 55.4 |
| \$50,000-\$74,999 | 153 | 43.8 | 112 | 59.8 |
| \$75,000-\$99,999 | 71 | 35.2 | 53 | 47.2 |
| \$100,000-\$149,999 | 44 | 25.0 | 30 | 36.7 |
| \$150,000 or more | 18 | 22.2 | 11 | 36.4 |
| <u>HRT</u> | | | | |
| Yes | 266 | 54.1*** | 210 | 68.6*** |
| Hysterectomy | 111 | 45.0* | 81 | 61.7 |
| No Hysterectomy | 155 | 60.6 | 129 | 72.9 |
| No | 560 | 34.8 | 391 | 49.9 |
| <u>DM</u> | | | | |
| Yes | 694 | 39.2* | 503 | 54.1** |
| Intervention | 268 | 41.0 | 190 | 57.9 |
| Control | 426 | 38.0 | 313 | 51.8 |
| No | 132 | 50.8 | 98 | 68.4 |
| HRT/DM | 134 | 57.5 | 112 | 68.8 |

Includes participants that have stopped intervention/meds.

If no collection then considered < 80% adherent. p < 0.05 p < 0.01 p < 0.001

Table 7.2

CaD Drop-out Rate Summary

| | Number Randomized ¹ | % Inactive |
|-----------------------|-----------------------------------|------------|
| <u>Overall</u> | 7390 | 7.9 |
| Λα | | |
| <u>Age</u> 50-54 | 1507 | 8.2 |
| 55-59 | 1863 | 7.8 |
| 60-69 | 3011 | 7.5 |
| 70-79 | 1009 | 8.7 |
| Ethnisits | | |
| Ethnicity Minority | 922 | 7.6 |
| White | 6461 | 7.0 7.9 |
| AA IIITG | 0401 | 1.5 |
| Education | | |
| 0-8 Years | 108 | 7.4 |
| Some H.S. or diploma | 1635 | 6.9 |
| Any school after H.S. | 5621 | 8.2 |
| Income | | |
| < \$10,000 | 263 | 6.5 |
| \$10,000-\$19,999 | 839 | 7.2 |
| \$20,000-\$34,999 | 1915 | 7.6 |
| \$35,000-\$49,999 | 1559 | 7.6 |
| \$50,000-\$74,999 | 1401 | 7.5 |
| \$75,000-\$99,999 | 615 | 8.6 |
| \$100,000-\$149,999 | 348 | 8.9 |
| \$150,000 or more | 128 | 14.8 |
| <u>HRT</u> | | |
| Yes | 2861 | 5.2 |
| Hysterectomy | 1142 | 7.6 |
| No Hysterectomy | 1719 | 3.7 |
| No | 4529 | 9.5 |
| <u>DM</u> | | |
| Yes | 5647 | 8.8 |
| Intervention | 2201 | 10.6 |
| Control | 3446 | 7.7 |
| No | 1743 | 4.8 |
| HRT/DM | 1118 | 5.9 |

¹ Average follow-up time is approximately 7 months.

8. Outcomes

8.1 Overview

The identification of potential WHI outcomes for CT participants begins with the self-administered Form 33 - Medical History Update, which is to be completed every six months. The Clinical Centers then follow up on these self-reported outcomes by obtaining medical records and submitting them for review by a local physician adjudicator. A portion of the locally adjudicated outcomes are then reviewed centrally in an attempt to standardize the definition of WHI outcomes study wide.

Over the past six months, the development of the outcomes investigation process has continued to advance. This report of the experience of the WHI with respect to protocol defined outcomes includes data on the following items:

- 1. Timeliness of Outcome Reporting Process
- 2. Self-reported Outcomes
- 3. Preliminary Reports of Deaths and Serious Adverse Experiences
- 4. Verified Outcomes

8.2 Timeliness of Outcome Reporting Process

At the June, 1996 meeting of the Data Safety Monitoring Board for WHI, DSMB members had questions regarding the length of time required for the various steps of the outcome verification process. Current estimates based on the WHI experience to date are presented below. When appropriate, estimates are presented based on the cumulative data collected since the inception of WHI, as well as on only the most recently collected outcomes data.

8.2.1 Completion of Form 33 by CT participants

This form is used to collect self reported data pertaining to potential WHI outcomes. Participants on any part of the CT are to complete a Form 33 every 6 months. The following table provides the percentage of participants' forms which are collected from the participants and received by the appropriate CC within the designated time periods following the date the Form 33 was due per protocol. From this table it can be seen that a little over 80% of Form 33s are received at the CCs within 30 days of the due date, and nearly 90% are received within 60 days of the due date.

| | < 30 d | < 60 d | < 90 d | < 180 d |
|-----------------------|--------|--------|--------|---------|
| Cumulative | 83% | 89% | 91% | 93% |
| Due after May 1, 1996 | 81% | 87% | 89% | |

8.2.2 Completion of Form 33D by those participants with potential primary outcomes

Under the revised outcomes collection procedures, Form 33 is used to collect those outcomes that are never investigated further and to screen for the need to collect more detailed information on the more important WHI outcomes. Participants who indicate on Form 33 that they have had hospitalizations or recent cancer or fracture diagnoses are then asked to complete a Form 33D. The following table provides the percentage of participants' forms which are collected from the participants and received by the appropriate CC within the designated time periods following the

receipt of the Form 33. Because Form 33D was introduced in March, 1996, all estimates are based on recent data. From this table it can be seen that approximately one-third of Form 33Ds have not been received two months after the Form 33 was processed.

| | < 3 <u>0 d</u> | $\leq 60 \text{ d}$ | < 80 d |
|----------------------|----------------|---------------------|--------|
| Since March 15, 1996 | 58% | 66% | 69% |

8.2.3 WHILMA analysis of Form 33D for potential outcomes needing investigation

Following collection of the detailed information regarding potential WHI outcomes on Form 33D, the CCs are to process the forms within WHILMA to identify those outcomes requiring collection of medical records and adjudication of outcomes. The following table provides the percentage of participants' forms which have been analyzed by WHILMA within the designated time periods following the receipt of the Form 33D. Although WHILMA was also required for Form 33s under the initial outcomes collection process, that processing was not implemented until 1996. Hence, the estimates presented below do not include the processing of those early forms.

| | $\leq 30 d$ | < 60 d | < 80 d |
|--------------------|-------------|--------|--------|
| Since June 1, 1996 | 64% | 83% | 93% |

8.2.4 Collection of medical documentation

After WHILMA has identified those potential outcomes requiring detailed investigation, the CCs are to obtain specific medical records from the health care providers as indicated by WHILMA (and the WHI manuals). It is difficult to obtain reliable estimates of the time required for this process from the early procedures for outcomes documentation. Hence, until the outcomes process is dealing only with data collected using Form 33D, the distribution of completion times for these tasks will need to be inferred from the completion times for the entire adjudication process given in item 8.2.6 below.

8.2.5 Local adjudication

When all medical documentation has been obtained for a particular adjudication case, that documentation is to be forwarded to a local physician adjudicator at the CC. The following table provides the percentage of adjudication cases which have been returned by the local adjudicator within the designated time periods measured from the time of receipt of all medical records at the CC.

| | < 30 d | < 60 d | < 80 d |
|--------------------|--------|--------|--------|
| Cumulative | 52% | 60% | 62% |
| Since June 1, 1996 | 70% | 74% | 75% |

8.2.6 Adjudication Process from Form 33 Due Date to Local Adjudication

The following table provides the percentage of Form 33s for which all identified potential WHI outcomes have been completely investigated within the designated time periods following the due date for the semi-annual Form 33s. From this table it can be seen that approximately 80% of outcomes investigations are completed within 60 days of the due date for the semi-annual Form 33s.

| | < 30 d | < 60 d | < 80 d | < 120 d | < 180 d |
|-------------------|--------|--------|--------|-------------|---------|
| Cumulative | 75% | 80% | 81% | 83 <i>%</i> | 84% |
| Since May 1, 1996 | 76% | 82% | 84% | 85% | |

It should be noted, however, that the preponderance of Form 33s reported as having complete investigations in the above table had no potential WHI outcomes reported. That is, at this early stage of the CT, most participants report no WHI outcomes on their Form 33s. When attention is restricted to those Form 33s requiring collection of more detailed information on a Form 33D, the percentage of those Form 33s having completed investigation of all identified potential WHI outcomes within the designated time period following the due date for receipt of the Form 33 by the CC is as presented in the following table. Thus, the outcomes process is completed fairly quickly for those participants not reporting potential WHI outcomes, but only about 25% of the outcomes investigations are completed in less than four months for participants reporting an overnight hospitalization or treatment of fractures or cancer.

| | < 30 d | < 60 d | < 80 d | < 120 d |
|----------------------|--------|--------|--------|---------|
| Since March 15, 1996 | 11% | 17% | 20% | 23% |

8.3 Self-Reported Outcomes

Due to the time involved in obtaining medical records and reviewing those records for WHI outcomes, there will tend to be a substantial delay between the ascertainment of a potential WHI outcome on a Form 33 and the final verification of that outcome. For this reason, monitoring reports will include counts of self-reported outcomes which are still pending verification.

When reviewing the results reported for the unverified self-reported outcomes, it is important to keep in mind the limitations of such data. In particular, although the participants are asked to report only those potential outcomes occurring since their last medical history update (Form 33), it is apparent that the subtleties behind such a request are missed by some women. These errors will be identified in the outcome verification process, however the results presented in this report will not yet have been corrected.

As of August 31, 1996, one or more Form 33's have been completed by 21,407 participants out of 32,406 participants randomized to date (many participants were randomized less than six months prior to the date of data analysis). The average length of follow up for those participants is 13.30 months (range 0.62 to 32.27 months).

Table 8.1 presents the counts and annualized proportion of patients reporting potential WHI outcomes for the HRT, DM and CaD clinical trials, respectively. For HRT these data are presented by hysterectomy status. Overall, approximately 13.1% of participants report at least one hospitalization since randomization, with similar distributions in both HRT and DM components. The incidences of specific cardiovascular, cancer, or fracture outcomes are also displayed in Table 8.1.

8.4 Preliminary Reports of Deaths and Serious Adverse Experiences

According to the WHI protocol, deaths of participants while on study are to be reported to the Clinical Coordinating Center within 48 hours. These deaths are then investigated and locally

adjudicated by a process similar to that for Form 33 data. Since the beginning of the clinical trial, the CCC has received reports of 69 deaths for CT participants, and the CT enrollment status for those participants is displayed in *Table 8.1*. Serious adverse experiences (SAEs) are reported to the CCC by the individual clinics. For the purposes of this report, all SAEs are reported with the WHI outcomes (e.g., cancer, stroke).

8.5 Verified WHI Outcomes

The CCs began data entering the results of local adjudication of the self-reported outcomes in December, 1995. As of August 31, 1996, a total of 435 WHI outcomes on 317 CT participants have been locally adjudicated and entered into the WHILMA data base. *Table 8.2* presents the number of locally verified WHI outcomes reported for participants on the HRT and DM clinical trials. It is still too early in the CaD component for local adjudication of self-reported outcomes to be complete for any events reported after CaD randomization. It should also be noted that the outcomes reported in *Table 8.2* continue to represent data from about half of the CCs. Over half of the locally adjudicate outcomes come from just six CCs, and a single CC (Buffalo) is the source for 17% of the locally adjudicated outcomes.

Owing to the sparseness of the locally adjudicated outcomes, there is not yet sufficient information to be able to analyze the reliability of the self reported outcomes. Furthermore, the first central review of the locally adjudicated outcomes will be taking place in November, 1996 for cardiovascular and mortality outcomes. Cancer and fracture central adjudication will similarly be starting during Fall, 1996.

In light of the above, the results of *Table 8.2* must be interpreted quite cautiously. It is not yet clear whether these locally adjudicated cases are at all representative of the CT participants as a whole.

Table 8.1

Counts (Annualized Percentages) of Participants with Self-Reported Outcomes
(Data Entered Through August 31, 1996)

| | HR | RT . | DМ | CaD |
|--------------------------------------|-------------|---------------|--------------|-------------|
| | No Uterus | Intact Uterus | | |
| Number of participants with Form 33* | 3086 | 4579 | 16405 | 3345 |
| Mean follow-up (months)** | 13.2 | 13.0 | 13.5 | 7.1 |
| Hospitalizations | | | | |
| Ever | 477 (14.0%) | 564 (11.4%) | 2170 (11.7%) | 271 (13.6%) |
| Two or more | 129 (3.8%) | 171 (3.5%) | 632 (3.4%) | 48 (2.4%) |
| Cardiovascular Hospitalizations | | | | |
| Angina | 26 (0.8%) | 27 (0.5%) | 84 (0.5%) | 20 (1.0%) |
| Heart Attack | 18 (0.5%) | 14 (0.3%) | 29 (0.2%) | 9 (0. 5%) |
| Heart Failure | 4 (0.1%) | 6 (0.1%) | 16 (0.1%) | 2 (0.1%) |
| CABG or PTCA | 22 (0.6%) | 22 (0.4%) | 43 (0.2%) | 14 (0.7%) |
| Carotid Endarterectomy | 0 (0.0%) | 4 (0.1%) | 8 (0.0%) | 1 (0.1%) |
| PVD | 2 (0.1%) | 3 (0.1%) | 5 (0.0%) | 0 (0.0%) |
| DVT | 4 (0.1%) | 13 (0.3%) | 21 (0.1%) | 2 (0.1%) |
| Pulmonary Embolism | 0 (0.0%) | 4 (0.1%) | 13 (0.1%) | 0 (0.0%) |
| Other CV hospitalization | 37 (1.1%) | 23 (0.5%) | 135 (0.7%) | 9 (0.5%) |
| Stroke | 15 (0.4%) | 15 (0.3%) | 38 (0.2%) | 3 (0.2%) |
| Cancer | 68 (2.0%) | 83 (1.7%) | 364 (2.0%) | 42 (2.1%) |
| Breast | 6 (0.2%) | 13 (0.3%) | 61 (0.3%) | 12 (0.6%) |
| Ovary | 1 (0.0%) | 1 (0.0%) | 9 (0.0%) | 0 (0.0%) |
| Endometrial | 0 (0.0%) | 2 (0.0%) | 6 (0.0%) | 0 (0.0%) |
| Colorectal | 6 (0.2%) | 9 (0.2%) | 21 (0.1%) | 3 (0.2%) |
| Other (non-skin) | 7 (0.2%) | 11 (0.2%) | 49 (0.3%) | 8 (0.4%) |
| Fractures | 111 (3.3%) | 147 (3.0%) | 517 (2.8%) | 57 (2.9%) |
| Hip | 3 (0.1%) | 2 (0.0%) | 11 (0.1%) | 2 (0.1%) |
| Hysterectomy | 5 (0.1%) | 26 (0.5%) | 98 (0.5%) | 13 (0.7%) |
| Diabetes (treated) | 101 (3.0%) | 93 (1.9%) | 342 (1.8%) | 49 (2.5%) |
| DEATHS | 16 | 16 | 50 | 8 |

Number of participants with at least one Form 33 - Medical History Update having valid data regarding hospitalizations.

[&]quot;Mean follow-up is computed as the mean number of Form 33's per patient times 6 months.

Table 8.2

Counts of Participants with Locally Verified Outcomes for Hormone Replacement Therapy Component (Data Entered through August 31, 1996)

| | H | RT | DM |
|---------------------------------|-----------|---------------------------------------|-----|
| - | No Uterus | Intact Uterus | |
| Cardiovascular Hospitalizations | | · · · · · · · · · · · · · · · · · · · | |
| Coronary Heart Disease | | | |
| Myocardial Infarction | 6 | 2 | 11 |
| Sudden coronary death | 1 | 0 | 1 |
| Other Cardiovascular Disease | | | |
| Angina | 5 | 4 | 21 |
| Congenital Heart Failure | 2 | 1 | 9 |
| Revascularization | 6 | 1 | 1 i |
| Carotid | 0 | 1 | 4 |
| Peripheral Vascular Disease | 0 | 0 | 1 |
| Stroke | 4 | 1 | 10 |
| Deep Vein Thrombosis | 1 | 3 | 2 |
| Pulmonary Embolism | 0 | 2 | 1 |
| Cancer | | | |
| Major cancers | | | |
| Breast | 1 | 4 | 21 |
| Ovary | 0 | 0 | 0 |
| Endometrial | 0 | 0 | 1 |
| Colorectal | 1 | 3 | 3 |
| Other (non-skin) | 4 | 6 | 14 |
| Fractures | 21 | 29 | 131 |
| Hip | 0 | 0 | 2 |
| Hysterectomy | 0 | 11 | 17 |
| DEATHS | 4 | 1 | 12 |

9. Clinical Center Performance Monitoring

9.1 Performance Monitoring Plan

In June 1995, the CCC implemented a four-step plan for monitoring and assisting CC performance. The purpose of the four steps is to identify clinic-specific performance issues in a timely fashion, to reinforce good performance, and to provide assistance or institute corrective action if performance is inadequate. As part of this four-step plan, the functions of the Regional Resource Center (RRC) at Bowman Gray School of Medicine were changed to include activities related to this new plan. The RRC was also renamed the Clinical Facilitation Center (CFC) to reflect this change in activities. The four monitoring levels are described below. Progress of the CC monitoring and follow-up is reported to the Steering Committee on a monthly basis.

Level 1: Routine Performance Monitoring and Follow-up

CCC quality assurance staff and lead staff liaisons regularly contact the clinic lead staff, review database reports, and perform standard QA visits to all clinics. They monitor clinic-specific and study-wide performance in key areas to provide timely and routine feedback on performance to the clinics in question and to provide assistance (e.g., advice, training) where performance needs improvement.

In July, the Council approved the QA Task Force recommendations for prioritizing and streamlining QA activities. In response to the recommendations, the content and frequency of the QA visits was streamlined. Beginning this fall, QA visits will be reduced from a 3-day to a 2-day visit for CCs without satellite sites and from 4 days to 3 days for CCs with satellite sites. To accommodate the shorter visits, the standard content of the visits is being reduced to allow time to focus on high priority areas and on CC-specific issues as needed. In addition, the frequency of the visits has been reduced from one per year to one every other year for CCs with good performance at the previous QA visit. As of June, 1996, all NCCs had had an initial QA visit and all VCCs have had a second annual visit.

Level 2: Performance Monitoring Committee

The Performance Monitoring Committee (PMC), formed in July 1995, reviews and notes persistent concerns in clinic performance. The Committee membership includes two members from the CFC, two members from the Project Office, and two members from the CCC. Other CCC, Project Office, and CFC scientists and staff regularly participant in the PMC calls and meetings. The PMC, meeting via regular conference calls, determines the assistance or other action that may be needed at selected clinics in the upcoming month. The PMC also identifies the person(s) who will, if asked, carry out such activities and identifies any study-wide issues to be brought to the attention of the Steering Committee

Level 3: Follow Up on Persistent Issues

The CFC is responsible for seeing that the recommended activities identified by the PMC are carried out in a timely fashion. The CFC staff conducts these interactions where appropriate or requests assistance of another person or group with specialized expertise in the area of concern. A Level 3 site visit may be conducted with one to three members from the CFC, Project Office and/or CCC, but without selected PIs or lead staff from the other clinics.

Level 4: Performance Enhancement Site Visit.

If the interactions with the PMC do not yield timely results, or if there are sufficiently serious clinic issues, a Level 4 performance enhancement site visit is conducted. In addition to CFC staff, the site visit team will typically include investigators and staff from other WHI clinics and a representative from the Project Office and the CCC. The composition of the site visit team depends, in great part, on the specific problem areas to be addressed. The CFC takes the lead in coordinating and arranging these visits, prepares a written report summarizing the site visit team's finding (for review by the site visit team), submits the report to the chair of the PMC, and monitors the progress toward achieving site visit recommendations. A copy of the final report is sent to the clinic, Project Office, and CCC.

9.2 PMC Summary Report

A PMC Summary Report was developed to assist the PMC in monitoring the clinic performance. The data summary tables include data on the following clinic activities: recruitment, recruitment of minorities for Pool 1 clinics, HRT, DM, and CaD follow-up and retention, HRT, DM, and CaD intervention, outcomes, subcontractor data, and data management. Within each table, the performance of each clinic is detailed for key activities related to the listed category. For example, the summary recruitment table shows the cumulative percent randomizations/enrollments into each study component and the percent of goal for the 70 - 79 age group. The tables also include a percent of goal over a previous time period to allow easy monitoring of trends within each clinic. The summary recruitment table includes percent of randomization/enrollment goal for the previous two quarters, and the other tables include cumulative percent through the previous quarter. Within each table, the final column shows a summary percentage for the activities presented in the table. Footnotes on each table indicate from which routine database reports the data come. Clinic performance is further summarized in one summary table listing the summary percentages of each of the previous tables, thereby presenting an overview of clinic performance in one table. The PMC report, showing cumulative data through August 31, 1996 is shown in Table 9.1 - Clinical Center Performance Summary. Possible additions to the report include a summary of the QA visits conducted by the CCC staff.

The entire PMC report is updated at the CCC every quarter and sent to the PMC. The recruitment summary table is updated monthly and used for the routine monitoring of specific CCs reviewed on the routine PMC calls. A copy of each quarterly PMC report is sent to each clinic PI, and an electronic copy is published to the CC fileservers.

9.3 PMC Committee Activity

The PMC began meeting via conference call on August 7, 1995. Current membership includes Anne McTiernan, chair of the PMC; Garnet Anderson and Andrea LaCroix, Co-Project Directors of the CCC; Ross Prentice, PI of CCC; Curt Furburg, PI of the CFC; Sally Shumaker, Co-PI of the CFC; Michelle Naughton, Co-PI of the CFC; Jacques Rossouw, Lead Project Officer; and Linda Pottern, Project Officer. Other routine participants on the PMC calls include Joanne Odenkirchen, Policy Analyst at NIH; Bernedine Lund, Technical Coordinator at the CCC; and Pam Nance, Project Manager at the CFC. The Committee held one to two conference calls per month from August 1995 through August 1996, with meetings on January 25 and May 1, 1996. Future scheduled contacts include six conference calls through the end of the 1996 and a meeting Nov. 4, 1996. The Nov. 4 meeting will focus on a review of the PMC goals and plans for the upcoming year, discussion on monitoring adherence and retention, and review of additional help that can be given to problem clinics.

Before each routine call, narrative summaries of performance for each clinic to be reviewed are circulated to all PMC members. The summaries include information from routine Level 1 monitoring activities by CCC lead staff liaisons as well as updated information about the functioning of the CC, and reports of current recruitment activities and adherence data. During the call, briefings on completed PMC visits and calls with clinics are given, materials received from CCs in response to specific PMC requests, action items from the previous call, and the clinic summaries are reviewed, and new action items are identified. After the call, a letter summarizing the PMC discussion is sent to the PI of the clinics reviewed on the call, pointing out areas of good performance and areas needing improvement.

The PMC reviewed all 40 clinics at least once by December 1995 and a second review of clinics will be completed by the end of 1996. Specific issues and clinics needing improvement are addressed more frequently.

During the six months from March 1 through August 31, 1996, the PMC conducted one Level 3 and eight Level 4 PMC visits to clinics. Four additional visits are scheduled through November, and a visit to two additional clinics is being scheduled for December-January. Three of the completed Level 4 visits were to clinics that had had a previous Level 3 visit. Subsequently, the PMC agreed that it would make at most one visit to each clinic for a particular problem area, and refer further issues to the Project Office. This separation of PMC and NIH site visits helps to clarify and maintain the CC enhancement function of the PMC visit and separate it from the contract issues addressed in NIH site visits. The PMC also agreed that after the PMC visits a clinic for a specific reason, for example, recruitment, it will not usually make a follow-up visit for the same issue. Rather, follow-up will be by phone, email, or mail, and any further visits to the clinic on that issue will be in the domain of the Project Office. In addition to PMC visits, the PMC has begun to hold conference calls with CCs where possible, rather than delaying a visit due to scheduling difficulties. This is especially effective when the CC has a specific issues that can be discussed on a call, for example, strategies for HRT-only recruitment. One PMC conference call was held with a CC in August and one call is scheduled in September.

After a PMC visit, the chair of the visit prepares a PMC Visit Report, describing the visit, the CC's strengths, issues review, and the PMC recommendations. A draft of the report is circulated to the PMC Visit members before being finalized and sent to the CC PI. Reports for all PMC visits through August have been completed and sent to the CCs.

During the face-to-face meeting on May 1, the committee reviewed the progress of the PMC to date and discussed how to monitor changes the CCs were asked to make following discussions on the PMC call and following a PMC visit. The following suggestions were made and implemented:

- To monitor the request and receipt of materials from the CCs, all requests are listed on a table showing date requested, date received, assigned PMC member, and date reviewed. This table is included and reviewed on each PMC call.
- To document the CC response to the PMC visit recommendations, a table listing the recommendations included in the PMC Visit report and the status of each of the recommendations is prepared. Beginning in July, these tables have been prepared and sent to the CCs, asking the CC to detail changes they have made.
- To solicit feedback on the PMC visit team's effectiveness, the PMC prepared a PMC Visit Survey, that will be sent to all CCs receiving a PMC visit after the final visit report has been sent. The survey asks for feedback on the content, format, and visitors of the visit, and asks for suggestions for changes.

It also came to the attention of the PMC that several CCs were scheduling screening visits for OS-only participants. To encourage the screening of CT women, the Project Office and CCC temporarily reduced the monthly OS enrollment goals by 35% to encourage CCs to focus on CT screening.

Two projects begun in the previous reporting period were finalized and sent out to the CCs.

- The Hot Tips booklet, containing generic problems and possible solutions, was finalized and distributed to the CCs in May.
- The Randomization Catch-up Plan spreadsheet that clinics can use as a template from which to monitor and project individual CC recruitment, screening, and follow-up activities was distributed to CC PIs and Clinic Managers in April. A second version of the Catch-up Plan spreadsheet, containing several updates to the participant follow-up schedule, CC-specific yields from screening visits, and a graph displaying the number of screening visits, CT and OS follow-up visits, is being prepared and will be distributed to the CCs in September. The Catch-up Plans have become a very useful tool for CCs to project the number of screening visits and mailings needed to reach their recruitment goals, and the Project Office plans to request that CCs include an updated Catch-up Plan with their quarterly reports to the Project Office.

Clinical Center Performance Summary Table 9.1

CC Performance Summary Data as of: 8/31/96

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Summary data is taken from the summary columns of the following reports. Note:

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5 7 2

Table 9.1 (continued)

CC Performance Summary Data as of: 8/31/96

| _ | | | _ | 1 | , | | | _ | - ; | ı | -; | | | _ | | - | ī | | Ţ | _ | | _ | | - | _ | \neg |
|---------------|------------------|--------------|-------------|----------|---------------|----------|---------|-------------|--------|----------|---------|-------|----|---------|-----------|-------|-----------|--------|---------|---------|----------------|-------------|----------|-------------|----------|-----------|
| | Overall | Ran | k = | 2 | 12 | 5 | 54 | [۲ | _ | 위 | 9 | g | 5 | - | 8 | 22 | 2 | က | 5 | ω | 17 | 48 | 9 | 4 | 7 | 6 |
| | ð | cum., Aug. 9 | 6 2 | 73 | 80 | 76 | 8 | 8 | 82 | 8 | 7 | 29 | 79 | 93 | 74 | 2 | 8 | 8 | 11 | 83 | 76 | 9/ | 87 | 8 | 78 | 88 |
| | Data | cum., Aug 9 | 6 E | 99 | 80 | 80 | 8 | 8 | 26 | 85 | 8 | 61 | 99 | 86 | 87 | 8 | 95 | 86 | 88 | 79 | 23 | 94 | 91 | 86 | 98 | 8 |
| | ٦ | cum., May 9 | 6 7 | 89 | 82 | 84 | 80 | 96 | 96 | 92 | 78 | 99 | 61 | 86 | 98 | 93 | 96 | 86 | 88 | 11 | 25 | 76 | 35 | 86 | 8 | 82 |
| | I Labs | cum., Aug 9 | 6 2 | 87 | 89 | 91 | 22 | 26 | 94 | 96 | 80 | 97 | 97 | 86 | 85 | 62 | 96 | 97 | 84 | 66 | 94 | 92 | 96 | 96 | 96 | 8 |
| | Central | cum., May 9 | € § | 9 | 83 | 92 | 88 | 88 | 96 | 93 | 87 | 96 | 26 | 86 | 8 | 26 | 96 | 97 | 84 | 56 | 2 6 | 88 | 96 | 92 | 96 | 8 |
| | mes | cum., Aug 9 | 16 | | 47 | 30 | | 60 | 41 | 56 | 22 | 27 | 31 | 88 | 43 | 10 | 55 | 71 | 33 | 22 | 47 | 13 | | 94 | - 11 | 23 |
| | Outcomes | cum., May 9 | 16 | | | | | | | | | | | | | | | | | | | | | | | |
| | CaD Intervention | cum., Aug 9 | 6 | | | | | | | | | | | | | | | | | | | ! | | | | |
| | CaD In | cum., May 9 | 96 | | | | | | | | | | | | | | | | | | | | | | | |
| | DM Intervention | cum., Aug 9 | 96 K | 9 | 8 | 2 | 2 | 66 | 98 | 88 | 79 | 77 | æ | 88 | 26 | 22 | 88 | 88 | 11 | 79 | 88 | 78 | 2 | 8 | \$ | 85 |
| ပ္သ | DM Inte | cum., May 9 | 7 ac | 87 | 98 | ಜ | 69 | 83 | 87 | 96 | 78 | 0, | 8 | 88 | 57 | 62 | 8 | 06 | 75 | 73 | 93 | 78 | 6 | 29 | 85 | 8 |
| Summary - NCC | rvention | cum., Aug 9 | 96 S | 8 8 | 86 | 26 | 88 | 97 | 88 | 8 | 62 | 8 | 83 | 22 | 22 | 8 | 86 | 8 | 87 | 35 | 8 | 8 | ક | 8 | 28 | 95 |
| | HRT Intervention | cum., May 9 | 96 | | | | | | | | | | | | | | | | | | | | | | | |
| | Retention | cum., Aug S | 96 Ş | 3 5 | 66 | 66 | 86 | 86 | 66 | 86 | 66 | 66 | 66 | 8 | 97 | 86 | 8 | g | 98 | 66 | 66 | 86 | 66 | 66 | 66 | 86 |
| | Rete | cum., May 9 | 96 | | | | | | | | | | | | | | | | | | | | | | | |
| | DM Followup | cum., Aug 9 | 96 2 | 404 | 90 | 82 | 52 | 8 | 92 | 8 | 79 | 65 | 8 | 86 | 2 | 55 | 95 | 95 | 8 | 78 | 62 | 74 | 98 | 92 | 82 | 8 |
| | DM Fo | cum., May 9 | 36 S | 3 2 | 88 | 88 | 98 | 88 | 92 | 18 | 85 | ន | 28 | 8 | 33 | 68 | 98 | 26 | 92 | 28 | ş | 7 | 8 | 66 | 8 | 88 |
| | HRT Followup | cum., Aug 9 | 96 8 | 7 7 | 88 | 78 | 47 | 91 | 93 | 92 | 8 | 20 | 94 | 55 | 8 | 69 | 93 | 8 | 87 | 85 | 8 | 8 | 92 | 86 | 8 | 88 |
| | HRT | cum., May | 96 8 | 2 2 | 8 | 75 | 8 | 98 | 95 | 88 | 8 | 23 | 98 | 8 | 28 | 8 | 26 | 96 | 95 | 8 | 8 | 2 | 6 | 66 | 2 | 99 |
| | tment | cum., Aug ! | 96 | 3 8 | 83 | 14 | 29 | 88 | 80 | 22 | 51 | 49 | 3 | 88 | 22 | 36 | 78 | 69 | 52 | 88 | 95 | 9 | 13 | 48 | 28 | 56 |
| | Recruitment | JunAug | 96 2 | الم | 2 2 | 8 | 32 | 88 | 83 | 2 | 42 | 82 | 18 | 55 | 29 | 52 | 79 | 81 | 43 | 88 | 25 | 2 | 8 | 74 | 96 | 26 |
| | | | 1171 | Chi-Buch | Cincinnati | Columbus | Detroit | Gainesville | GWU-DC | Honolulu | Houston | rvine | ¥ | Madison | Mediantic | Miami | Milwaukee | Nevada | NY City | Oakland | Portland | San Antonio | Stanford | Stony Brook | Torrance | Worcester |

Note: Summary data is taken from the summary columns of the following reports.

Table 9.1 (continued)

Recruitment - VCC

| | | Rank | 13 | 7 | 15 | 14 | ဗ | 10 | 2 | 6 | 4 | ည | 12 | 16 | - | 8 | - | 9 |
|----------------|---------------------------|---------------|---------|------------|--------|--------------|----------------|---------|------|---------|---------|-------------|--------|-----------|------------|---------|----------------|---------|
| _ _ ख़ _ | | cum., Aug. 96 | 72 | 98 | 64 | 29 | 91 | 74 | 91 | 78 | 8 | 88 | 72 | 90 | 74 | 85 | 94 | 87 |
| Overall | weignied average* i | Jun Aug. | 130 | 82 | 126 | 99 | 112 | 88 | 76 | 70 | 72 | 92 | 6 | 79 | 98 | 117 | 163 | 123 |
| 3 | \$ ₹ | Mar May | 85 | 72 | 87 | 65 | 93 | 75 | 96 | 92 | 107 | 104 | 92 | 72 | 85 | 118 | 131 | 9 |
| ¥ <u>+</u> | - 79 | cum., Aug. 96 | 46 | 40 | 49 | 49 | 59 | 78 | 48 | 68 | 20 | 48 | 42 | 33 | 51 | 72 | 5 | 82 |
| Age - DM⁴ | % goal, 70 | Jun Aug. | 156 | 106 | 120 | 52 | 157 | 37 | 50 | 59 | 29 | ဗ္ဗ | 55 | 64 | 74 | 107 | 379 | 136 |
| Ą | o6 % | Mar May | 105 | 33 | 128 | 13 | 25 | 21 | 20 | 67 | 88 | 94 | 87 | 40 | 83 | 83 | 187 | 87 |
| F | - 79 | cum., Aug. 96 | 59 | 43 | 63 | 36 | 73 | | 98 | 29 | 62 | 52 | 30 | 34 | 42 | 96 | 83 | 62 |
| Age - HRT⁴ | % goal, 70 | Jun Aug. | 84 | 64 | 219 | 28 | 166 | 23 | 69 | 21 | 46 | 37 | 29 | 23 | 46 | 172 | 218 | 139 |
| Ag | ъб % | Mar May | 23 | 37 | 80 | 7 | 40 | 4 | 131 | 49 | 83 | 119 | 41 | 45 | 8 | 159 | 166 | 53 |
| <u> </u> | | cum., Aug. 96 | 66 | 129 | 97 | 77 | 187 | 96 | 109 | 118 | 66 | 133 | 176 | 126 | 190 | 115 | 173 | 151 |
| OS³ | % goal | Jun Aug. | 20 | 151 | 161 | 26 | 166 | 94 | 163 | 186 | 137 | 147 | 166 | 180 | 29 | 149 | 142 | 139 |
| | | Mar May | 83 | 97 | 125 | 7 | 185 | 140 | 101 | 159 | | 136 | 180 | 243 | & | 136 | 2 8 | 179 |
| | =- | cum., Aug. 96 | 79 | 108 | 8 | 8 | 96 | 65 | 103 | 74 | 113 | 106 | 29 | 28 | 8 | 89 | 8 | 85 |
| Ca/D² | % goal | Jun Aug. | 74 | 33 | 42 | 75 | 8 | 99 | 29 | 64 | 72 | 104 | 97 | 45 | 29 | 88 | 8 | 113 |
| | | Mar May | 69 | 8 | 51 | 96 | 120 | 87 | 127 | 94 | 118 | 5 | 79 | 59 | 75 | 105 | 113 | 102 |
| | = | cum., Aug. 96 | 66 | 97 | 88 | 66 | 97 | 8 | 8 | 82 | 92 | 5 | 101 | 73 | 96 | 82 | 107 | 104 |
| DM | % goal | Jun Aug. | 233 | 122 | 153 | | — | 132 | 8 | 6 | 7 | 26 | 132 | 123 | ⊢ | 102 | ļ | 119 |
| | | Mar May | 146 | 8 | 119 | 106 | 104 | 06 | 71 | 131 | 129 | 6 | 159 | 8 | 143 | 63 | 145 | 66 |
| _ | - | cum., Aug. 96 | 65 | 88 | 77 | 29 | ⊢ | ļ_ | 109 | 76 | 83 | 79 | 29 | 8 | ၽ | 94 | | ├ |
| HRT | % goal | Jun Aug. | 114 | 69 | 133 | 26 | 109 | 66 | 1 | 58 | 7 | 88 | - | 78 | 76 | 149 | 12 | 118 |
| | | Mar May | 62 | 8 | 99 | 46 | 8 | 93 | 85 | 2 | 66 | 108 | 46 | 9 | 8 | 181 | 88 | 71 |
| | | | Atlanta | Birmingham | Bowman | Brigham | Buffalo | Chicago | lowa | LaJolla | Memphis | Minneapolis | Newark | Pawfucket | Pittsburgh | Seattle | Tucson | UCDavis |

¹ From WHIP1109. Distributed in CC Monthly Activity Reports. Can be run at CC as WHIP0770.

*weights:

0.5

0.5

² From WHIP1125. Distributed in CC Monthly Activity Reports. Can be run at CC as WHIP1139.

³ From WHIP1126. Distributed in CC Monthly Activity Reports. Can be run at CC as WHIP1139.

⁴ Derived from WHIP0578. Available at CC as WHIP0775.

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Table 9.1 (continued)

WHI, Annual Progress Report

Recruitment - NCC

| | | Rank | ۵ | 17 | 16 | 22 | 24 | - | 3 | 13 | 19 | 20 | 14 | 2 | 15 | 23 | 4 | 2 | 18 | 9 | 11 | 7 | 10 | 21 | 6 | 12 |
|------------|--------------------------|---------------|-------------|----------|------------|----------|---------|-------------|--------|----------|---------|--------|-----|---------|-----------|-------|-----------|--------|---------|---------|----------|-------------|----------|-------------|----------|-----------|
| _ | | cum., Aug. 96 | 09 | 53 | 53 | 41 | 29 | 88 | 80 | 54 | 51 | 49 | 54 | 88 | 54 | 36 | 78 | 69 | 52 | 89 | 99 | 61 | 25 | 48 | 28 | 26 |
| Overall | weignted average* | Jun Aug. | 97 | 105 | 52 | 63 | 32 | 85 | 83 | 64 | 42 | 82 | 81 | 105 | 67 | 52 | 79 | 81 | 43 | 88 | 58 | 79 | 83 | 74 | 96 | 61 |
| | a ≪ | Mar May | 62 | 61 | 70 | 48 | 19 | 93 | 85 | 83 | 51 | 72 | 52 | 93 | 50 | 49 | 83 | 75 | 43 | 92 | 59 | 78 | 67 | 40 | 52 | 67 |
| 4_ | - 79 | cum., Aug. 96 | 42 | 39 | 32 | 24 | 8 | 36 | 32 | 38 | 36 | 53 | 25 | 54 | 32 | 22 | 38 | 29 | 27 | 33 | 36 | 23 | 42 | 27 | 46 | 36 |
| Age - DM⁴ | % goal, 70 l | Jun Aug. | 99 | 116 | 36 | 33 | 25 | 47 | 58 | 54 | 37 | 33 | 28 | 54 | 33 | 33 | 21 | 33 | 18 | 45 | 25 | 25 | 98 | 54 | 127 | 54 |
| Ag | o6 % | Mar May | 99 | 25 | 62 | 20 | 4 | 22 | 33 | 37 | 69 | 50 | 17 | 54 | 50 | 45 | 33 | 29 | 18 | 37 | 33 | 33 | 44 | 12 | 28 | 37 |
| | - 79 | cum., Aug. 96 | 34 | 35 | 38 | 15 | 19 | 99 | 59 | 41 | 23 | 46 | 46 | 74 | 43 | 20 | 58 | 50 | 31 | 45 | 28 | 30 | 52 | 28 | 27 | 32 |
| Age - HRT⁴ | % goal, 70 - | Jun Aug. | 98 | 98 | 41 | 22 | 59 | 57 | 94 | 7 | 20 | 79 | 79 | 94 | 72 | 7 | 43 | 58 | 26 | 72 | 14 | 43 | 129 | 72 | 58 | 22 |
| Ag | ъб % | Mar May | 55 | 29 | 70 | 29 | 7 | 95 | 58 | 65 | 57 | 99 | 36 | 98 | 43 | 20 | 98 | 72 | 19 | 59 | 29 | 58 | 64 | 14 | 19 | 36 |
| | ···- | cum., Aug. 96 | 110 | 123 | 108 | 105 | 70 | 191 | 211 | 141 | 118 | 168 | 115 | 186 | 98 | 9 | 118 | 165 | 175 | 183 | 75 | 75 | 147 | 123 | 144 | 167 |
| OS³ | % goal | Jun Aug. | 140 | 82 | 103 | 158 | 18 | 162 | 239 | 135 | 97 | 279 | 92 | 220 | 139 | 58 | 88 | 142 | 176 | 155 | 110 | 70 | 142 | 117 | 131 | 206 |
| | | Mar May | 19 | 225 | 92 | 6 | 103 | 159 | 160 | 189 | 80 | 158 | 141 | 198 | 98 | 56 | 187 | 206 | 152 | 163 | 142 | 73 | 166 | 110 | 164 | 159 |
| 01 | =- | cum., Aug. 96 | 40 | 6 | 51 | 21 | ~ | 88 | 8 | 56 | 51 | 0 | 36 | 59 | 37 | 9 | 61 | 54 | 28 | 43 | 38 | 63 | 15 | 32 | 45 | 31 |
| Ca/D² | % goal | Jun Aug. | | L | 41 | 53 | 9 | 11 | 29 | 17 | 45 | 0 | 43 | 69 | 42 | 8 | 9/ | 61 | 58 | 43 | 43 | 99 | 19 | 35 | 48 | 30 |
| | | Mar May | 23 | 0 | 79 | 0 | 0 | 121 | 122 | 53 | 70 | 0 | 17 | 30 | 23 | 0 | 17 | 36 | 26 | 43 | 23 | 83 | 0 | 23 | 35 | 33 |
| | _ | cum., Aug. 96 | 92 | 2 | 99 | 74 | 36 | 9/ | 83 | 82 | 57 | 73 | 71 | 96 | 7 | 51 | 98 | 9/ | 63 | 92 | 95 | 29 | 74 | 09 | 75 | 82 |
| DM, | % goal | Jun Aug. | 137 | 142 | 64 | 118 | 20 | 81 | 74 | 156 | 55 | 127 | 124 | 97 | 8 | 98 | 66 | 81 | 20 | 128 | 102 | 98 | 83 | 104 | 147 | 106 |
| | | Mar May | 126 | 88 | 80 | 66 | 23 | 59 | 71 | 123 | 36 | 120 | 99 | 66 | 2 | 29 | 104 | 74 | 36 | 124 | 105 | 8 | 98 | 42 | 69 | 11 |
| _ | | cum., Aug. 96 | 53 | 78 | 46 | 34 | 50 | 113 | 73 | 49 | 20 | 54 | 9 | 108 | 58 | 59 | 97 | 82 | 58 | 71 | 55 | 98 | 71 | 53 | 24 | 46 |
| HRT¹ | % goal | Jun Aug. | 117 | 169 | 53 | 54 | 43 | 112 | 77 | 36 | 25 | 97 | 85 | 151 | 74 | 101 | 108 | 122 | 40 | 106 | 54 | 144 | 46 | 85 | 83 | 36 |
| | | Mar May | 54 | 6 | 49 | 43 | 29 | 115 | 85 | 77 | 27 | 90 | 2,6 | 146 | 20 | 79 | 126 | 104 | 64 | 85 | 28 | 104 | 95 | 65 | 53 | 63 |
| | | | Chapel Hill | Chi-Rush | Cincinnati | Columbus | Detroit | Gainesville | GWU-DC | Honolulu | Houston | Irvine | ΓĄ | Madison | Medlantic | Miami | Milwaukee | Nevada | NY City | Oakland | Portland | San Antonio | Stanford | Stony Brook | Torrance | Worcester |

"weights:

0.5

0.5

¹ From WHIP1109. Distributed in CC Monthly Activity Reports. Can be run at CC as WHIP0770.
² From WHIP1125. Distributed in CC Monthly Activity Reports. Can be run at CC as WHIP1139.
³ From WHIP1126. Distributed in CC Monthly Activity Reports. Can be run at CC as WHIP1139.
⁴ Derived from WHIP0578. Available at CC as WHIP0775.

Table 9.1 (continued)

WHI, Annual Progress Report

Minority Randomization/Enrollment at Pool 1 Clinics

| _ | Rank | 8 | 4 | 8 | 10 | | - | 5 | 2 | 3 | 9 | 7 |
|---------------------------------------|--------------|---------|------------|---------|--------|------|----------|---------|----------|-----------|-------|-------------|
| % Non-white HRT/DM/OS ¹ | cum. Aug. 96 | 28 | 44 | 28 | 20 | | 7.1 | 37 | 0/ | 65 | 34 | 32 |
| % Nor HRT/D | cum. May 96 | 28 | 41 | 29 | 20 | | 89 | 38 | 72 | 64 | 28 | 30 |
| | VCCs | Atlanta | Birmingham | LaJolla | Tucson | NCCs | Chi-Rush | Detroit | Honolulu | Mediantic | Miami | San Antonio |

¹ Derived from WHIP0960. Distributed in Monthly Activity Reports. Can be run at CC as WHIP777.

Table 9.1 (continued)

HRT Follow-up - VCC

| | ſ | | | Rank | S. | က | = | 4 | 8 | <u></u> | _[| 2 | ~ | 7 | ြ | 의 | <u>ي</u> | 4 | စ | ؈ |
|---|----------------------------|---------------------|---------|-------------|----------|------------|--------|---------|---------|---------|------|----------|----------|-------------|--------|-----------|------------|----------|----------|---------|
| | | <u>=</u> | | | | - | | | _ | _ | - | \dashv | - | _ | _ | | _ | | | |
| | | Overal | cum., A | | ┨─ | | 76 | | -{ | 4 | | + | - | - | 79 | \dashv | | \dashv | \dashv | 8 |
| _ | _ | | cum., N | 1ay 96 | 8 | 8 | 73 | 88 | 8 | 2 | 95 | 2 | 8 | - | | 76 | 7 | 8 | + | 쁴 |
| | | Complete | cum., A | ug. 96 | 88 | 83 | 29 | 2 | 9 | 84 | 8 | ଞ | 69 | 8 | 9/ | 71 | 8 | 2 | 4 | 78 |
| l | 22 | Con | cum., N | /ay 96 | | 83 | 59 | 69 | 62 | 7 | 8 | 8 | 46 | 8 | 65 | | 33 | 22 | ස | 8 |
| | | wks | cum., A | ug. 96 | 8 | 90 | 63 | 86 | 89 | 37 | જ | 8 | <u>.</u> | 84 | 77 | 73 | 의 | 22 | a | 8 |
| | Annual Visit | +/-2 | cum., N | /lay 90 | ł | 83 | 53 | 95 | 67 | ဗ္ဂ | 8 | ည | 84 | 82 | 78 | 65 | 16 | 9 | 2 | 22 |
| | 4 | rcted | cum., A | ug. 90 | 9 | 8 | 85 | 88 | 90 | 79 | 8 | 8 | 32 | 86 | 96 | 91 | 88 | 29 | 76 | 86 |
| | | Conducted | cum., N | /lay 9 | } | 8 | 81 | 92 | 87 | 2 | 100 | 72 | 92 | 100 | 96 | 91 | 73 | 54 | 94 | 83 |
| Ī | | olete | cum., A | ug. 9 | 2 | 8 | 9/ | 79 | 7.5 | 77 | 90 | 78 | 75 | 9/ | 72 | 71 | 8 | 74 | 70 | 11 |
| ļ | 2 | Complete | cum., N | May 9 | 8 | 84 | 2 | 80 | 74 | 73 | 89 | 78 | 7.5 | 78 | 89 | 73 | 79 | 61 | 70 | 99 |
| ١ | Semi-Annual 2 ² | wks | cum., A | ug. 9 | 160 | 8 | 48 | 91 | 7.1 | 23 | 94 | 62 | 9/ | 87 | 47 | 26 | 25 | 23 | 59 | 81 |
| | mi-An | 4.2 | cum., f | May 9 | 88 | 91 | 42 | 87 | 99 | 55 | 93 | 26 | 80 | 85 | 42 | 54 | 64 | 23 | 70 | 80 |
| | Š | octed | cum., A | ug. 9 | 8 | 86 | 85 | 97 | 06 | 87 | 66 | 81 | 95 | 100 | 87 | 06 | 91 | 98 | 83 | 88 |
| | | Conducted | cum., l | May 9 | 8 | 26 | 11 | 95 | 82 | 88 | 66 | 81 | 94 | 86 | 83 | 88 | 91 | 85 | 84 | 88 |
| | | Sete | cum., A | ug. 9 | 2 42 | 84 | 99 | 79 | 74 | 67 | 91 | 69 | 99 | ဆ | 29 | 7.1 | 9 | 74 | 54 | 75 |
| | 8 | Complete | cum., I | May 9 | 22 | 84 | 89 | 85 | 72 | 92 | 91 | 69 | 58 | 85 | 63 | 72 | 61 | 65 | 57 | 74 |
| | Visit 1 | wks | cum., A | lug. 9 | 96 | 85 | 62 | 93 | 83 | 28 | 93 | 89 | 89 | 92 | 75 | 45 | 47 | 53 | 89 | 67 |
| | Annual Visit | +/-2 | cum., I | May 9 | 68 | 88 | 57 | 93 | 83 | 8 | 93 | 98 | 91 | 90 | 77 | 33 | 52 | 53 | 69 | 88 |
| | Q. | ducted | cum., A | \ug. 9 | 6 6 | 66 | 92 | 66 | 96 | 98 | 9 | 88 | 97 | 100 | 96 | 95 | 8 | 92 | 63 | 95 |
| I | | Cond | | May 9 | 6 6 | 8 | 92 | 66 | 35 | 97 | 66 | 87 | 97 | 66 | 96 | 93 | 35 | 88 | 95 | 95 |
| ſ | | olete | cum., A | \ug. 9 | 6 E | 92 | 83 | 88 | 8 | 85 | 96 | 92 | 79 | 96 | 81 | 88 | 9 | 6 | 78 | 8 |
| | - - - | Complete | cum., I | May 9 | 6 % | 92 | 80 | 86 | 83 | 83 | 95 | 75 | 79 | 90 | 80 | 98 | 92 | 84 | 79 | 72 |
| | | wks. | cum., A | \ug. 9 | 6 8 | 87 | 80 | 92 | 82 | 40 | 95 | 74 | 95 | 89 | 94 | 78 | 81 | 52 | ន | 88 |
| | Semi-Annual | +/- 2 wks | cum., l | May 9 | 6 6 | 28 | 77 | 92 | 8 | အ | 95 | 72 | 82 | 88 | 65 | 77 | 82 | 29 | 9 | 85 |
| | Ø | ucted | cum., | \ug. 9 | 6 8 | 86 | 94 | 66 | 96 | 96 | 66 | 16 | 86 | 100 | 94 | 66 | 98 | 95 | 16 | 97 |
| | | S C | cum., | May 9 | 68 | 86 | 94 | 100 | 95 | 95 | 8 | 89 | 97 | 100 | 94 | 93 | 98 | 96 | 91 | 26 |
| | eek1 | Conducted Conducted | cum., | Aug. 9 | 6 6 | 6 | 93 | 94 | 96 | 90 | 100 | 87 | 88 | 100 | 06 | 95 | 90 | 94 | 11 | 66 |
| | 6 Week | Cond | cum | May 9 | 6 2 | S | 93 | 95 | 97 | 90 | 100 | 82 | 87 | 100 | 6 | 8 | 8 | 8 | 89 | 98 |
| - | | | | | Atlanta | Birmingham | Bowman | Brigham | Buffalo | Chicago | lowa | LaJolla | Memohis | Minneapolis | Newark | Pawtucket | Pittsburgh | Seattle | Tucson | UCDavis |

NOTES:

Conducted = % of visits due for which at least one task has been key-entered.

+/- 2 weeks = % of visits due that have been conducted within 2 weeks of the target date.

Complete = % of visits conducted for which all expected tasks have been key-entered. Specifically, Semi-Annual Contact 1: tasks 10, 33, 950, 951

Annual Visit 1: tasks 10, 33, 38, 44, 45, 80, 81, 84, 100, 950, 951 Semi-Annual Contact 2: tasks 10, 33, 950, 951 Annual Visit 2: tasks 10, 33, 80, 81, 84, 950, 951

¹ From WHIP1131. Can be run at CC as WHIP0781 or WHIP0786. ² From WHIP1141, distributed in Monthiy Activity Reports.

Table 9.1 (continued)

HRT Follow-up - NCC

| | 1 | | | Rar | , u | 2 0 | ų - | - 0 | 4 | Īσ | , ku | α | , (| 2 | က္က | က | 2 | _ | 5 | 4 1 | ر ا | 2 | 4 | 2 | 6 | ا م | - | واع | 2 |
|--|-------------------|-----------|--------|--------------------|-----|---------------|--------------|------------|----------|--------------|-------------|---------------|----------|---------|----------|----------|----------|-----------|-------|-----------|----------|-----------|----------|----------|-------------|----------|--------------|----------|-----------|
| | | Overall | oum. | Aug. 9 | ╬ | - - | | ╁ | ┞ | Ļ. | | ╀ | + | + | \dashv | 4 | 95 | | -+ | 88 | | 4. | | + | 80 | 4 | -+ | + | G |
| | | ð. | | May 9 | - - | + | - | ╌ | ╀ | ╀ | 36 | +- | + | + | | - | - | 87 | - | -+ | | - - | + | -+ | - | + | + | 94 | - |
| Γ | _ | ale | | Aug. 9 | 十 | | | 1 | | | 1 | | 1 | | | <i>-</i> | <u>~</u> | 7 | | | | <u>" </u> | | | | | | | - |
| l | | Complete | | May 9 | ╫ | + | ╁ | + | \vdash | | + | + | + | + | | | - | - | + | + | - | \dashv | \dashv | + | + | 1 | _ | + | |
| | it 2² | S | | Aug. 9 | ╅ | <u> </u> | + | - | ╀ | - | + | <u> </u> | + | 1 | + | _ | - | 4 | 1 | + | ╅ | + | - | 1 | + | | 1 | <u> </u> | ┨ |
| | Annual Visit 22 | +/- 2 wks | | , May 9 | ╁ | + | ╁ | + | ╁ | ╁ | + | + | + | | - | | - | - | - | - | \dashv | + | | _ | - | _ | _ | + | \dashv |
| | Ann | + pa | | | ╅ | $\frac{1}{1}$ | + | | ╁ | - | + | $\frac{1}{1}$ | + | | + | | - | | _ | <u> </u> | \dashv | <u> </u> | + | 1 | \dashv | | - | + | ┨ |
| | | Conducted | | Aug. 9 | ╫ | + | + | + | + | ł | \dagger | + | + | - | | | | 4 | - | - | - | + | | - | \dashv | - | | + | \dashv |
| - | | | | , May 9 | + | + | ╁ | + | ╀ | 1 | + | $\frac{1}{1}$ | + | _ | 4 | | - | _ | - | \dashv | + | _ | - | 1 | + | _ | \dashv | + | \dashv |
| | | Complete | | Aug. 9 | + | + | 1 | ╀ | + | + | + | + | ╬ | _ | _ | | - | | _ | - | - | | | - | - | - | - | + | - |
| | al 2 ² | Š | | , May 9 | ╅ | + | + | + | + | + | + | + | + | | - | | | | - | \dashv | - | 1 | - | | \dashv | | - | + | 4 |
| | Semi-Annual 22 | +/- 2 wks | | Aug. 9 | + | 1 | + | 1 | - | + | + | + | - | | | _ | | - | | - | - | - | | _ | \dashv | | | - | \dashv |
| | Semi | 7 | | , May 9 | ┥ | + | + | + | + | + | + | + | - | - | | | | | | | - | 1 | - | _ | - | _ | _ | - | \dashv |
| | | Conducted | cum. | , Aug. 9 | 96 | 1 | - | 1 | - | | 1 | + | - | _ | | | | - | _ | - | 4 | _ | - | - | - | | | - | \dashv |
| The state of the s | | - | | , May ⁹ | ╅ | _ | 1 | _ | + | + | | | 5 | 0.1 | _ | 0 | | | | _ | _ | | | <u></u> | | _ | | | ┥ |
| | | Complete | cum. | , Aug. S | 96 | 2 | | ? | ľ | + | 3 8 | 6 | 길 | | 0 | P | 86 | 69 | 31 | 66 | 86 | 20 | 53 | 39 | 7(| | 94 | 9 | \dashv |
| | 42 | ⊢ | cum. | , May | 96 | 1 | + | + | 1 | + | Ø | - | | 54 | | | _ | _ | _ | | | | | _ | | | 0 | | 4 |
| ļ | Annual Visit | +/- 2 wks | cum. | , Aug. ! | 96 | 1 | - 2 | 8 | - | ? i | 4 5 | 9. | 6 | _ | 30 | 93 | 88 | 8 | 6 | 79 | 96 | 7.5 | 1.2 | 79 | 77 | | 9 | 70 | 4 |
| | Annus | 7 | ······ | , May | ┥ | 1 | - | | 1 | \downarrow | ٥ | 1 | | 100 | | | | L | | 0 | | _ | 0 | | | | 0 | | \dashv |
| | | ducted | cum. | , Aug. | 96 | 3 | <u> </u> | 5 | ; - | + | 8 8 | 38 | 93 | | 2 | 93 | ş | 8 | 80 | 100 | 93 | 83 | 100 | 8 | 9 | | 28 | 75 | _ |
| ļ | | Cond | | , May | - | | _ | 1 | _ | + | 8 | | | 100 | _ | | | L | _ | | | | | | | | _ | | |
| | | Complete | cum. | , Aug. | 96 | 9 | 29 | + | 7 6 | + | 94 | - | 71 | 94 | - | 84 | ╁ | ╀ | 86 | _ | 94 | 94 | | 8 | L | 88 | ⊢ | H | 88 |
| | 42 | ·├— | | ., May | ┥ | \dashv | + | - | ٥ | + | + | + | 53 | 96_ | ⊢ | ├ | \vdash | ╀ | 8 | 83 | 95 | 96 | 92 | ⊢ | 98 | 79 | ╀ | 6 | |
| | Annua | +/- 2 wks | cum. | , Aug. | 96 | 74 | + | + | + | 7 | 8 | -} | 97 | 84 | - | - | ╀ | ╀ | ┞ | - | 93 | 91 | 82 | H | 76 | 98 | ├- | L | H |
| ١ | Semi-Annual | ‡ | | ., May | - | - | 7 | | 유 (| + | + | \dashv | -100 | 84 | ⊢ | ╀. | ┼ | ╄ | 8 | 96 | 93 | - | 75 | ⊢ | 94 | H | ┿ | 8 | Н |
| | ٠. | Conducted | | , Aug. | } | 4 | -+ | 97 | + | + | + | 4 | 6 | ├ | \vdash | ╀ | +- | ╂ | ╀ | - | <u> </u> | 97 | ┞ | ┝ | 6 | Ë | ╀ | 83 | Н |
| ļ | | | | ., May | 96 | 8 | 23 | 96 | 3 | S | + | 4 | 97 | 94 | - | ╀ | ╀ | ╁╴ | ╄ | 66 | μ. | 66 | ╀ | ┝ | 9 | ⊢ | ļ | 86 | |
| | 6 Wook | Conducted | cum. | , Aug. | 96 | 92 | 8 | 95 | 8 | ð | 97 | 8 | 8 | 66 | 46 | g | 8 | 8 | 85 | 98 | 94 | 96 | 98 | 96 | 68 | ┝ | ╀ | ┼ | 88 |
| | 5 | ဦ | cum | ., May | 96 | 6 | 84 | 94 | 83 | ę, | 96 | 66 | 8 | 66 | - | g | 8 | 8 | 95 | 66 | 96 | 97 | 88 | 92 | ╄ | 86 | | ╄ | 84 |
| - | | | | | | Chapel Hill | Chi-Rush | Cincinnati | Columbus | Detroit | Gainesville | GWU-DC | Honolulu | Houston | lvine | 4 | Madison | Medlantic | Miami | Milwaukee | Nevada | NY Cit | Oakland | Portland | San Antonio | Stanford | Stony Brook | Torrance | Worcester |

Conducted = % of visits due for which at least one task has been key-entered. NOTES:

+/- 2 weeks = % of visits due that have been conducted within 2 weeks of the target date. Complete = % of visits conducted for which all expected tasks have been key-entered. Specifically,

Semi-Annual Contact 1: tasks 10, 33, 950, 951 Annual Visit 1: tasks 10, 33, 38, 44, 45, 80, 81, 84, 100, 950, 951 Semi-Annual Contact 2: tasks 10, 33, 950, 951 Annual Visit 2: tasks 10, 33, 80, 81, 84, 950, 951

¹ From WHIP1131. Can be run at CC as WHIP0781 or WHIP0786.

Table 9.1 (continued)

Retention - VCC

| ı | | · · · · · · · · · · · · · · · · · · · | <u> </u> | 1 | | | ī | | | | | 1 | 1 | -т | i | 1 | ī | _ |
|------------------|------------------------------|---------------------------------------|----------|------------|--------|---------|---------|---------|------|---------|---------|-------------|--------|-----------|------------|---------|--------|---------|
| | _ | Rank | 13 | 12 | 7 | 9 | 6 | 7 | | 16 | 80 | က | 4 | 14 | 7 | 2 | 15 | 9 |
| | Overall | cum., Aug. 96 | 94 | 94 | 94 | 94 | 92 | 96 | 98 | 93 | 95 | 97 | 97 | 94 | 86 | 96 | 93 | 96 |
| | | cum., May 96 | 96 | 94 | 92 | 96 | 94 | 26 | 86 | 35 | 95 | 96 | 97 | 94 | 97 | 97 | 94 | 96 |
| os | % Continuing Followup | cum., Aug. 96 | | | | | | | | | | | | | | | | |
| 0 | % Con Folic | cum., May 96 | | | | | | | | | | | | | | | | |
| | % Continuing Followup | cum., Aug. 96 | 100 | 100 | 66 | 100 | 100 | 96 | 100 | 66 | 100 | 100 | 100 | 66 | 100 | 100 | 66 | 100 |
| CaD³ | % Con Folk | cum., May 96 | | | | | | | | | | | | | | | | |
| ් ඊ | % Continuing Intervention | cum., Aug. 96 | 98 | 83 | 06 | 85 | 06 | 93 | 95 | 92 | 91 | 93 | 96 | 87 | 86 | 94 | 98 | 94 |
| | % Con Interv | cum., M ay 96 | | | | | | | | | | | | | | | | |
| | % Continuing Followup | cum., Aug. 96 | 66 | 66 | 97 | 66 | 66 | 86 | 100 | 96 | 86 | 100 | 100 | 66 | 100 | 66 | 66 | 98 |
| DM ² | % Con Follo | cum., May 96 | 66 | 66 | 86 | 66 | 66 | 66 | 66 - | 96 | 86 | 66 | 66 | 66 | 66 | 66 | 66 | 86 |
| <u> </u> | Continuing tervention | cum., Aug. 96 | 66 | 26 | 26 | 86 | 97 | 86 | 66 | 94 | 95 | - 62 | 100 | 96 | 100 | 86 | 94 | 97 |
| | % Continuing Intervention | cum., May 96 | 66 | 26 | 66 | 66 | 97 | 86 | 66 | 91 | 92 | 96 | 100 | 96 | 100 | 86 | 94 | 97 |
| | Continuing Followup | cum., Aug. 96 | 98 | 66 | - 62 | 86 | 66 | 66 | 100 | 95 | 66 | 100 | 66 | 98 | 66 | 86 | 98 | 98 |
| <u>-</u> | % Continuing Followup | cum., May 96 | 66 | 66 | 97 | 66 | 66 | 66 | 66 | 95 | 66 | 100 | 66 | 86 | 66 | 66 | 98 | 98 |
| HRT ¹ | % Continuing Intervention | cum., Aug. 96 | 82 | 80 | 98 | 98 | 83 | 91 | 93 | 82 | 06 | 06 | 91 | 83 | 89 | 89 | 84 | 06 |
| | % Con Interv | cum., May 96 | 83 | 83 | 87 | 87 | 83 | 06 | 93 | 85 | 91 | 66 | 91 | 83 | 68 | 6 | 84 | 06 |
| | | | Atlanta | Birmingham | Bowman | Brigham | Buffalo | Chicago | lowa | LaJolla | Memphis | Minneapolis | Newark | Pawtucket | Pittsburgh | Seattle | Tucson | UCDavis |

Continuing Intervention = % of randomized participants (intervention participants for DM) with follow-up status 1 - 4 on Form 7. Continuing Follow-up = % of randomized participants with "active intervention" status. Notes:

¹ From report WHIP0745.

² From report WHIP0748. ³ From report WHIP0744.

Table 9.1 (continued)

Retention - NCC

| | | | | 1 | | | | | | | | | | | | _ | | | | | ٦ | | | | _ | | _ | | ٦ |
|-----------------|------------------------------|----------|-------|-------|----|-------------|----------|------------|----------|---------|-------------|--------|----------|---------|--------|-----|---------|-----------|-------|-----------|--------|---------|---------|----------|-------------|----------|-------------|----------|-----------|
| | Overall | | cum., | Aug. | 96 | 100 | 100 | 66 | 66 | 86 | 98 | 66 | 86 | 66 | 66 | 66 | 100 | 97 | 86 | 100 | 66 | 86 | 66 | 66 | 86 | 66 | 66 | 66 | 98 |
| | | | cum. | May | 96 | | | | | | | | | | | | | | | | | | | | | | | | |
| S | Continuing Followup | - | cum., | Aug. | 96 | | | | | | | | | | | | | | | | | | | | | | | | |
| so | % Continuing Followup | | cum. | , May | 96 | | | | | | | | | | | | | | | | | | | | | | | | |
| | % Continuing Followup | • | cum., | Aug. | 96 | 100 | | 100 | 100 | | - 66 | 100 | 100 | 100 | | 100 | 100 | 100 | | 100 | 100 | 100 | 100 | 100 | 99 | 100 | 100 | 100 | 100 |
| CaD³ | Con Folic | | cum., | , May | 96 | | | | | | | | | | | | | | | | | | | | | | | | |
| ပိ | % Continuing Intervention | | cum., | Aug. | 96 | 100 | | 66 | 100 | | 26 | 100 | 97 | 100 | | 98 | 100 | 100 | | 100 | 100 | 86 | 86 | 96 | 96 | 96 | 100 | 95 | 93 |
| | % Cor Interv | | cum. | , May | 96 | | | | | | | | | | | | | | | | | | | | | | | | |
| | % Continuing Followup | • | cum., | Aug. | 96 | 100 | 100 | 100 | 100 | 100 | 100 | 66 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99 | 66 | 100 | 100 | 100 | 100 | 100 | 66 | 100 |
| DM ² | % Con Folk | | cum. | , Мау | 96 | | | | | l | | | | | | | | | | | | | | | | | | | |
| ۵ | % Continuing Intervention | | cum., | Aug. | 96 | 100 | 100 | 100 | 100 | 96 | 66 | 100 | 96 | 100 | 100 | 100 | 100 | 63 | 96 | 100 | 98 | 86 | 100 | 100 | 100 | 100 | 66 | 100 | 100 |
| | % Con Interv | | cum. | , May | 96 | | | | | | | | | | | | | | | | | | | | | | | | |
| | % Continuing Followup | <u>.</u> | cum., | Aug. | 96 | 100 | 100 | 100 | 100 | 66 | 66 | 100 | 66 | 100 | 100 | 66 | 100 | 66 | 66 | 100 | 100 | 86 | 100 | 66 | 66 | 100 | 100 | 66 | 100 |
| HRT1 | Con Folic | | cum. | , Мау | 96 | | | | | | | | | | | | | | | | | | | | | | | | |
| 불 | % Continuing Intervention | | cum., | Aug. | 96 | 66 | 100 | 95 | 96 | 95 | 95 | 94 | 97 | 94 | 96 | 94 | 97 | 91 | 6 | 66 | 96 | 93 | 98 | 96 | 95 | 97 | - 6 | 66 | 92 |
| | % Con | | cum. | , May | 96 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Chapel Hill | Chi-Rush | Cincinnati | Columbus | Detroit | Gainesville | GWU-DC | Honolulu | Houston | Irvine | LA | Madison | Mediantic | Miami | Milwaukee | Nevada | NY City | Oakland | Portland | San Antonio | Stanford | Stony Brook | Torrance | Worcester |

Continuing Intervention = % of randomized participants (intervention participants for DM) with follow-up status 1 - 4 on Form 7. Continuing Follow-up = % of randomized participants with "active intervention" status.

Notes:

¹ From report WHIP0745. ² From report WHIP0748. ³ From report WHIP0744.

Table 9.1 (continued)

HRT Intervention - VCC

| % Women % Adheren | nen erent ¹ at | % Women with Pill Count at | omen Sount at | % Blir | % Blinding³ | | Overall | |
|----------------------|------------------------------|----------------------------|----------------------|--------|-------------|---------|---------------|-----|
| Annual Visit | | Annual Visit ² | l Visit ² | • | | weighte | weighted ave* | |
| cum., | | cum. | cum., | cum. | cum., | cum., | cum., | |
| Aug. | | , May | Aug. | , May | Aug. | , May | Aug. | Ra |
| | | 96 | 96 | 96 | 96 | 96 | 96 | ınk |
| | | 99 | 88 | 63 | 63 | 92 | 82 | 13 |
| 88 87 | | 92 | 91 | 92 | 94 | 91 | 06 | 4 |
| 82 | ھ | 83 | 83 | 97 | 97 | 85 | 85 | 12 |
| 68 00 68 | 65 | 90 | 88 | 96 | 95 | 91 | 90 | 3 |
| 3 08 62 | ~ | 84 | 85 | - 26 | 91 | 84 | 84 | 14 |
| 85 84 8 | ω, | 88 | 90 | 6 | 96 | 88 | 89 | 6 |
| 92 92 | | 95 | 95 | 92 | 91 | 93 | 93 | - |
| 80 80 | | 87 | 88 | 95 | 94 | 86 | 86 | # |
| | | 91 | 06 | 96 | 92 | 06 | 68 | 7 |
| 85 85 | | 92 | 92 | 92 | 94 | 90 | 90 | 9 |
| 75 75 | | 88 | 88 | 91 | 06 | 83 | 83 | 16 |
| 85 84 | | 89 | 89 | 66 | 93 | 88 | 88 | 10 |
| 06 | | 95 | 92 | 66 | 66 | 93 | 93 | 2 |
| 98 88 | | 06 | 90 | 86 | 86 | 91 | 6 | 4 |
| 81 | | 81 | 80 | 66 | 96 | 85 | 84 | 15 |
| 85 86 | | 90 | 06 | 94 | 93 | 89 | 89 | 7 |

0.5

*Weights

¹ Adherent as measured by pill count or estimate at annual visit 1, excluding ERT → PERT participants. From data analysis, not yet routinely distributed to CCs.

² % of Annual Visit 1s conducted that include study pill collections. From WHIP1141, distributed in Monthly Activity Reports.

³ % Blinding = % of ppts for whom no unblinding occured. From DSMB report not distributed to CCs.

Table 9.1 (continued)

HRT Intervention - NCC

| | % Women > 80% Adherent | % Women % Adherent ¹ at | with Pill | % Women with Pill Count at | % Blir | % Blinding³ | | Overall | |
|-------------|------------------------|---------------------------------------|-----------|----------------------------|--------|-------------|--------|---------------|------|
| | Annual Visit | I Visit | Annua | Annual Visit ² | | | weight | weighted ave* | _ |
| | cum., | cum., | cum., | cum., | cum., | cum., | cum., | cum., | |
| | May 96 | Aug. 96 | May 96 | Aug. 96 | May 96 | Aug. 96 | May 96 | Aug. 96 | Rank |
| Chapel Hill | | 44 | | 100 | | 86 | | 06 | 17 |
| Chi-Rush | | | | | | 66 | | 66 | 2 |
| Cincinnati | | 001 | | 96 | | 96 | | 98 | 4 |
| Columbus | | | | | | 97 | | 97 | 9 |
| Detroit | | | | 0 | | 98 | | 33 | 24 |
| Gainesville | | 96 | | 86 | | 98 | | 97 | သ |
| GWU-DC | | 84 | | 80 | | 95 | | 85 | 20 |
| Honolulu | | 92 | | 100 | | 92 | | 95 | ဆ |
| Houston | | 26 | | 98 | | 66 | | 97 | ~ |
| Irvine | | | | 71 | | 98 | Ì | 80 | 23 |
| LA | | 92 | | 93 | | 95 | | 93 | 14 |
| Madison | | 74 | | 88 | | 95 | | 84 | 22 |
| Mediantic | | 75 | | 98 | | 98 | | 84 | 21 |
| Miami | | 100 | | 85 | | 66 | | 94 | 12 |
| Milwaukee | | 100 | | 96 | | 97 | | 98 | က |
| Nevada | | 96 | | 89 | | 98 | | 94 | 13 |
| NY City | | 28 | | - 06 | | 97 | | 87 | 19 |
| Oakland | | 82 | | 100 | | 95 | | 92 | 16 |
| Portland | | 82 | | 94 | | 96 | | 90 | 18 |
| San Antonio | | 91 | | 91 | | 100 | | 93 | 5 |
| Stanford | | | | | | 98 | | 95 | G |
| Stony Brook | | 94 | | 94 | | 97 | | 95 | = |
| Torrance | | 100 | | 100 | | 98 | | 100 | |
| Worcester | | | | | | 95 | | 95 | 6 |

*Weights 1 0.5

¹ Adherent as measured by pill count or estimate at annual visit 1, excluding ERT⇒PERT participants. From data analysis, not yet routinely distributed to CCs.

² % of Annual Visit 1s conducted that include study pill collections. From WHIP1141, distributed in

Monthly Activity Reports.

3 % Blinding = % of ppts for whom no unblinding occured. From DSMB report not distributed to CCs.

Table 9.1 (continued)

DM Intervention - VCC

| | | ····· | | Ra | ınk | 6 | = | 5 | 9 | 12 | 9 | 1 | 16 | œ | က | 15 | 2 | 2 | 4 | 4 | 우 |
|------------------------|---------------|---------------------------|-------|-------|-----|---------|------------|--------|---------|---------|---------|------|---------|---------|-------------|--------|-----------|------------|---------|--------|---------|
| | Summary | ave* | cum., | Aug. | 96 | 83 | 81 | 80 | 82 | 80 | 85 | 90 | 78 | 82 | 87 | 79 | 98 | 88 | 98 | 79 | 81 |
| | S | weighted | cum., | Мау | 96 | 83 | 8 | 8 | 98 | 80 | 88 | 89 | 81 | 98 | 83 | 81 | 8 | 88 | 87 | 21 | 81 |
| | ii | Collected | cum., | Aug. | 96 | 83 | 83 | 7.3 | 89 | 80 | 91 | 97 | 92 | 87 | 83 | 74 | 83 | 88 | 80 | 82 | 88 |
| | Grain | % Colle | cum., | Мау | 96 | 83 | 81 | 74 | 91 | 62 | 95 | 26 | | 87 | 93 | 79 | 90 | 87 | 81 | 1.6 | 80 |
| | Veg | Collected4 | cum., | Aug. | 96 | 83 | 83 | 73 | 89 | 80 | 91 | 97 | 26 | 87 | 89 | 74 | 89 | 89 | 80 | 82 | 80 |
| | Fruit/Veg | % Col | cum., | May | 96 | 83 | 81 | 74 | 91 | 6/ | 85 | 26 | 2.2 | 18 | 86 | 62 | 06 | 88 | 81 | 64 | 80 |
| | | al +5 g ⁶ | cum., | Aug. | 96 | 87 | 89 | 89 | 91 | 82 | 83 | 96 | 89 | 68 | 92 | 68 | 93 | 93 | 93 | 88 | 88 |
| 12) | | % < goal | cum., | May | 96 | 88 | 89 | 88 | 90 | 81 | 88 | 96 | 91 | 89 | 93 | 06 | 94 | 94 | 94 | 87 | 88 |
| Adherence (Session 12) | Fat Gram | goal ⁵ | cum., | Aug. | 96 | 9/ | 74 | 74 | 9/ | 62 | 72 | 98 | 7.5 | 78 | 7.5 | 72 | _ 22 | 84 | 84 | 70 | 74 |
| erence | Fat | * * | cum. | May | 96 | 2.2 | 74 | 73 | 9/ | 62 | 73 | 98 | 78 | 78 | 9/ | 75 | 78 | 82 | 84 | 2 | 75 |
| Ad | | Collected ⁴ | cum., | Aug. | 96 | 83 | 84 | 73 | 88 | 8 | 91 | 6 | 76 | 87 | 68 | 75 | 68 | 88 | 85 | 82 | 80 |
| | | % | cum. | , May | 96 | 83 | 85 | 74 | 91 | 79 | 95 | 95 | 77 | 87 | 83 | 79 | 95 | 87 | 82 | 8 | 80 |
| , | | mplete | cum., | Aug. | 96 | 06 | 8 | 87 | 93 | 94 | 6 | 100 | 88 | 91 | 35 | 87 | 91 | 97 | 93 | 91 | 91 |
| | Performance | % Comp | cum. | , May | 96 | 06 | 88 | 88 | 94 | 95 | 06 | 66 | 6 | 8 | 95 | 68 | 96 | 97 | 93 | 95 | 92 |
| | Perfo | % Attendance ² | cum., | Aug. | 96 | 89 | 64 | 69 | 73 | 77 | 78 | 74 | 69 | 69 | 78 | 28 | 71 | 75 | 9/ | 63 | 99 |
| | | | cum. | , May | 96 | 69 | 25 | 72 | 74 | 77 | 87 | 74 | 72 | 62 | 8 | 62 | 98 | 74 | 77 | 89 | 99 |
| | Timeliness of | group formation | cum., | Aug. | 96 | 93 | 18 | 68 | 88 | 98 | 68 | 18 | 74 | 93 | 96 | 93 | 91 | 95 | 95 | 77 | 87 |
| | Timelii | group fo | cum. | , May | 96 | 93 | 83 | 91 | 90 | 87 | 06 | 82 | 81 | 95 | 96 | 94 | 92 | 93 | 93 | 82 | 88 |
| | | | | | | Atlanta | Birmingham | Bowman | Brigham | Buffalo | Chicado | lowa | LaJolla | Memphis | Minneapolis | Newark | Pawtucket | Pittsburgh | Seattle | Tucson | UCDavis |

¹ Timeliness of group formation = % women randomized to DM intervention who started intervention within 20 weeks of randomization or have been waiting less than 20 weeks but have not yet started intervention. Derived from WHIP1110 and WHIP1118, which are distributed with CC Monthly Activity Reports.

0.25

0.25

*weights:

^{2%} Attendance = women who attended session 12 / women for whom session data have been key-entered. Derived from WHIP0588. Available to CCs through WHIP0427.

³ Completeness = % women attending group sessions or completing make-up activities. From WHIP1114. Available to CCs as WHIP0421.

^{4 %} collected = women who turned in scores for session 12 / women for whom session data have been key-entered. Derived from WHIP0588. Available to CCs through WHIP0423.

^{5%} of women with fat scores equal to or less than their fat gram goals. From data analysis not yet routinely distributed to CCs.

^{6%} of women with fat scores equal to or less than their fat gram goals + five grams. From data analysis not yet routinely distributed to CCs.

Table 9.1 (continued)

DM Intervention - NCC

| | | | | | _ | | | | | | _ | | | | | | | | | | | | | | | | | |
|-----------------------|---------------|---------------------------|-------|---------|-------------|----------|------------|----------|---------|-------------|--------|----------|---------|--------|-----|---------|-----------|------------|-----------|--------|---------|---------|----------|-------------|----------|-------------|----------|-----------|
| | y | | | Rank | 21 | 23 | 15 | 11 | 22 | 1 | 5 | 8 | 17 | 19 | 13 | 9 | 54 | 12 | 4 | က | 50 | 16 | 5 | 18 | 6 | 14 | 0 | 7 |
| | Summar | ed ave | cum., | Aug. 96 | 75 | 65 | 80 | 84 | 20 | 90 | 86 | 85 | 62 | 77 | 83 | 85 | 99 | 84 | 88 | 88 | 77 | 79 | 88 | 7.8 | 84 | 80 | 84 | 85 |
| | S | weighted | cum., | May 96 | 1 | 87 | 86 | 83 | 69 | 93 | 87 | 96 | 78 | 20 | 06 | 85 | 22 | 62 | 90 | 90 | 75 | 73 | 93 | 78 | 90 | - 67 | 85 | 6 |
| | ain | Collected | cum., | Aug. 96 | 78 | 47 | 80 | 88 | 89 | 93 | 86 | 83 | 82 | 79 | 98 | 97 | 45 | 89 | 92 | 86 | 85 | 72 | 96 | 74 | 79 | 96 | 87 | 84 |
| | Grain | % Coll | cum., | May 96 | 7 | | 93 | | | 92 | 82 | 92 | 82 | | | 92 | 34 | | | | 7.2 | | 94 | 74 | | | | 95 |
| | Veg | Collected | cum., | Aug. 96 | 78 | 47 | 80 | 88 | 89 | 93 | 98 | 83 | 82 | 79 | 98 | 97 | 45 | 89 | 92 | 86 | 85 | 72 | 96 | 74 | 79 | 98 | 87_ | 84 |
| | Fruit/Veg | S Coll | cum., | May 96 | 4 | | 93 | | | 95 | 82 | 95 | 82 | | | 95 | 34 | | | _ | 72 | | 94 | 74 | | | | 95 |
| | | l +5 g ⁶ | cum., | Aug. 96 | 68 | 75 | 88 | 91 | 79 | 97 | 98 | 93 | 83 | 82 | 92 | 79 | 73 | 94 | 91 | 96 | 79 | 98 | 87 | 94 | 91 | 96 | 92 | 90 |
| 12) | | % < goal | cum., | May 96 | 93 | | 06 | 91 | 82 | 100 | 98 | 100 | 98 | 78 | 100 | 84 | 162 | 100 | 94 | 97 | 78 | 69 | 97 | 94 | 100 | 80 | 96 | 94 |
| Adherence (Session 12 | Gram | goal | cum., | Aug. 96 | 9 | 20 | 63 | 73 | 63 | 92 | 80 | 92 | 63 | 64 | 99 | 99 | 29 | 82 | 74 | 90 | 09 | 70 | 69 | 77 | 82 | 74 | 69 | 79 |
| erence (| Fat G | | cum., | May 96 | 5 | | 67 | 64 | 65 | 95 | 85 | 91 | 64 | 99 | 7.1 | 99 | 7.1 | 0 | 74 | 92 | 26 | 99 | 85 | 77 | 91 | 9 | 65 | 83 |
| Adhe | | Collected | cum., | Aug. 96 | 8 2 | 47 | 80 | 88 | 88 | 93 | 98 | 83 | 82 | 6/ | 98 | 6 | 45 | 68 | 95 | 86 | 85 | 72 | 96 | 74 | 79 | 98 | 87 | 84 |
| | | % Coll | cum., | May 96 | 74 | | 93 | 85 | 63 | 93 | 82 | 92 | 82 | 64 | 98 | 92 | 34 | | 100 | 98 | 7.2 | 64 | 94 | 74 | 73 | 20 | 92 | 95 |
| | | mplete | cum., | Aug. 96 | 87 | 7.1 | 95 | 88 | 89 | 95 | 91 | 86 | 86 | 79 | 93 | 66 | 61 | 94 | 95 | 93 | 84 | 96 | 100 | 83 | 91 | 95 | 93 | 89 |
| | Performance | ပိ % | cum., | May 9 | 84 | | 86 | 100 | 63 | 96 | 89 | 100 | 84 | 64 | 001 | 86 | 54 | | 100 | €6 | 62 | 9/ | 100 | 79 | 83 | 80 | 85 | 95 |
| | Perfor | % Attendance ² | cum., | Aug. 96 | 48 | 7.1 | 99 | 69 | 54 | 82 | 92 | 08 | 59 | 64 | 20 | 74 | 32 | 4 9 | 18 | 1.2 | 95 | 75 | 62 | 52 | 72 | 62 | 7.1 | 76 |
| | | % Atter | cum., | May 9 | 58 | | 76 | 62 | 52 | 98 | 80 | 100 | 19 | 64 | 11 | 89 | 37 | | 78 | 74 | 59 | 76 | 98 | 55 | 87 | 20 | 7.1 | 79 |
| | ess of | mation' | cum., | Aug. 90 | 86 | 82 | 85 | 92 | 87 | 78 | 87 | 90 | 91 | 92 | 92 | 92 | 7.1 | 73 | 92 | 94 | 92 | 83 | 95 | 88 | 93 | 7.9 | 06 | 91 |
| | Timeliness of | group formation1 | cum., | May 9 | 83 | 87 | 87 | 97 | 83 | 98 | 91 | 86 | 88 | 95 | 97 | 93 | 81 | 85 | 96 | 96 | 100 | 94 | 97 | 91 | 96 | 79 | 93 | 93 |
| | | | | | Chapel Hill | Chi-Rush | Cincinnati | Columbus | Detroit | Gainesville | GWU-DC | Honolulu | Houston | Irvine | LA. | Madison | Medlantic | Miami | Milwaukee | Nevada | NY City | Oakland | Portland | San Antonio | Stanford | Stony Brook | Torrance | Worcester |

weights:

Timeliness of group formation = % women randomized to DM intervention who started intervention within 20 weeks of randomization or have been waiting less than 20 weeks but have not yet started intervention. Derived from WHIP1110 and WHIP1118, which are distributed with CC Monthly Activity Reports.

2 % Attendance = women who attended session 12 / women for whom session data have been key-entered. Derived from WHIP0588. Available to CCs through WHIP0427.

³ Completeness = % women attending group sessions or completing make-up activities. From WHIP1114. Available to CCs as WHIP0421.

* % collected = women who turned in scores for session 12 / women for whom session data have been key-entered. Derived from W HIP0588. Available to CCs through WHIP0423.

5% of women with fat scores equal to or less than their fat gram goals. From data analysis not yet routinely distributed to CCs.

6% of women with fat scores equal to or less than their fat gram goals + five grams. From data analysis not vet routinely distributed to CCs.

Table 9.1 (continued)

CaD Intervention - VCC

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|--------------------|---------------|---------|------------|--------|---------|---------|---------|------|---------|---------|-------------|--------|-----------|------------|---------|--------|---------|
| | | Rank | 9 | Ξ | 12 | 8 | 4 | 15 | - | 3 | 10 | 2 | 16 | 6 | 2 | 14 | 13 | 7 |
| Overall | age. | cum., Aug. 96 | 7.4 | 70 | 69 | 72 | 9/ | 61 | 80 | 9/ | 71 | 13 | 61 | 7.1 | 74 | 64 | 67 | 73 |
| | Average | cum., May 96 | , | | | | | | | | | | | | | | | |
| % Women with Pill Count at | SAV-2 ⁻ | cum., Aug. 96 | 92 | 6 | 68 | 9/ | 06 | 22 | 86 | 85 | 92 | 75 | 02 | 68 | 98 | 99 | 26 | 87 |
| | SA | cum., May 96 | | | | | | | | | | | | | | | | |
| % Women 80% Adherent¹ at | SAV- 2 | cum., Aug. 96 | 55 | 43 | 49 | 29 | 61 | 65 | 62 | 67 | 49 | 82 | 51 | 53 | 62 | 61 | 58 | 59 |
| % W(≤ | SA | cum., May 96 | | | | | | | | | | | | | | | | |
| | | | Atlanta | Birmingham | Bowman | Brigham | Buffalo | Chicago | lowa | LaJolla | Memphis | Minneapolis | Newark | Pawtucket | Pittsburgh | Seattle | Tucson | UCDavis |

¹ Adherent as measured by pill count or estimate at Semi-Annual Visit 2. From data analysis, not yet routinely distributed to CCs.

² % of Semi-Annual Visit 2s conducted that include study pill collections. From WHIP1143, distributed in Monthly Activity Reports.

Table 9.1 (continued)

Central Laboratory - VCC

| | _ | | | | | | | | | | | 1 | | | | | | | ···· | | |
|-----------------|-------------------------|------------|-------|------|-----|---------|------------|--------|---------|---------|---------|------|---------|---------|-------------|--------|-----------|------------|----------|--------|---------|
| | | | | Ra | ınk | 13 | 10 | 8 | 10 | 10 | 7 | 2 | ဆ | 15 | 1 | 2 | 4 | 9 | 14 | 16 | 9 |
| | Summary | average | cum., | Aug. | 96 | 94 | 95 | 96 | 92 | 92 | 97 | 97 | 96 | 92 | 66 | 96 | 97 | 96 | 93 | 91 | 96 |
| | | avei | cum., | May | 96 | 94 | 96 | 92 | 66 | 76 | 26 | 26 | 96 | 76 | 100 | 94 | 26 | 96 | <u> </u> | 66 | 86 |
| 4DFRs | < 4 Errors ³ | | cum., | Aug. | 96 | 98 | 98 | 100 | 97 | 92 | 100 | 100 | 66 | 100 | 86 | 86 | 100 | 100 | 92 | 93 | 94 |
| 4DF | % < 4 | | cum., | May | 96 | 66 | 98 | 100 | 86 | 96 | 100 | 100 | 100 | 96 | 100 | 26 | 100 | 100 | 96 | 83 | 93 |
| Blood | % Complete ² | | cum., | Aug. | 96 | 93 | 95 | 96 | 94 | 96 | 88 | 98 | 97 | 98 | 100 | 97 | 66 | 98 | 95 | 93 | 66 |
| Blc | % Con | | cum., | Мау | 96 | 63 | 95 | 92 | 94 | 26 | 86 | 86 | 97 | 28 | 100 | 26 | 66 | 86 | 92 | 76 | 66 |
| ECGs | Grade | es 1 - 3 | cum., | Aug. | 96 | 91 | 93 | 91 | 92 | 92 | 93 | 93 | 91 | 89 | 66 | 94 | 91 | 06 | 06 | 98 | 95 |
|) | ້ອັ | % grades 1 | cum., | May | 96 | 91 | 92 | 06 | 92 | 92 | 93 | 92 | 06 | 68 | 66 | 94 | 91 | 06 | 06 | 98 | 95 |
| | | | | | | Atlanta | Birmingham | Bowman | Brigham | Buffalo | Chicago | lowa | LaJolla | Memphis | Minneapolis | Newark | Pawtucket | Pittsburgh | Seattle | Tucson | UCDavis |

^{1%} ECGs of acceptable quality (grades 1 - 3). Derived from WHIP1023. Distributed in CC Monthly QA Reports.

² % Complete blood aliquots, based on aliquots required for visit type. From WHIP1044.

Distributed in CC Monthly QA Reports.

³ % archived 4DFRs with < 4 errors, cum. from Jan. 1, 1995. Derived from WHIP0935. Distributed to CCs quarterly.

Table 9.1 (continued)

Central Laboratory - NCC

| , | | | | | _ | | | | | | _ | | 1 | _ | _ | | _ | - | _ | | | - 1 | - 7 | _ | | . <u> </u> | | i | _ |
|-------|-----------------------|------------|-------|-------|-----|-------------|----------|------------|----------|---------|-------------|--------|----------|---------|--------|-----|---------|-----------|-------|-----------|--------|---------|----------------|----------|-------------|------------|-------------|----------|-----------|
| | | | | Ra | ınk | 13 | 23 | 22 | 19 | 15 | က | 12 | æ | 20 | 23 | က | - | 18 | က | 7 | 9 | 24 | 16 | 13 | - 12 | Ξ | 8 | ဆ | 50 |
| | Summary | average | cum., | Aug. | 96 | 94 | 87 | 89 | 91 | 94 | 97 | 94 | 96 | 90 | 97 | 97 | 98 | 92 | 97 | 96 | 97 | 84 | 93 | 94 | 92 | 96 | 96 | 96 | 90 |
| | | ауег | cum., | May | 96 | 7 6 | 16 | 83 | 36 | 88 | 88 | 96 | 93 | 28 | 96 | 26 | 86 | 94 | 97 | 96 | 97 | 84 | 95 | 95 | 88 | 96 | 95 | 96 | 90 |
| 4DFRs | < 4 Errors³ | | cum., | Aug. | 96 | 100 | 83 | 85 | 88 | 100 | 100 | 95 | 95 | 100 | 100 | 100 | 100 | 63 | 100 | 100 | 100 | 74 | 95 | 100 | 93 | 100 | 100 | 100 | 78 |
| 4DF | % < 4 | _ | cum., | , May | 96 | 100 | 100 | 75 | 75 | 100 | 100 | 100 | 06 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 69 | 100 | 100 | 68 | 100 | 100 | 100 | 83 |
| Blood | Complete ² | | cum., | Aug. | 96 | 91 | 80 | 88 | 91 | 28 | 26 | 66 | 98 | 73 | 94 | 95 | 98 | 96 | 98 | 96 | 66 | 26 | 93 | 87 | 91 | 96 | 94 | 95 | 98 |
| ଧ୍ୟ | uoo % | | cum., | , May | 96 | 91 | 92 | 68 | 06 | 98 | 97 | 66 | 98 | 68 | 93 | 95 | 98 | 96 | 98 | 96 | 66 | 26 | 94 | 89 | 91 | 96 | 94 | 96 | 6 |
| ECGs | | s 1 - 3' | cum., | Aug. | 96 | 91 | 98 | 95 | 95 | 94 | 94 | 88 | 95 | 97 | 98 | 96 | 96 | 86 | 93 | 93 | 91 | 82 | 9.1 | 95 | 63 | 91 | 94 | 93 | 94 |
| EC | Sig | % grades 1 | cum., | , May | 96 | 06 | 97 | 94 | 96 | 94 | 94 | 88 | 95 | 96 | 86 | 96 | 96 | 85 | 93 | 93 | 91 | 81 | 91 | 95 | 94 | 91 | 92 | 63 | 93 |
| | | | | | | Chapel Hill | Chi-Rush | Cincinnati | Columbus | Detroit | Gainesville | GWU-DC | Honolulu | Houston | Irvine | LA | Madison | Medlantic | Miami | Milwaukee | Nevada | NY City | Oakland | Portland | San Antonio | Stanford | Stony Brook | Torrance | Worcester |

¹ % ECGs of acceptable quality (grades 1 · 3). Derived from WHIP1023. Distributed in CC Monthly QA Reports.
² % Complete blood aliquots, based on aliquots required for visit type. From WHIP1044.
Distributed in CC Monthly QA Reports.

³ % archived 4DFRs with < 4 errors, cum. from Jan. 1, 1995. Derived from WHIP0935. Distributed to CCs quarterly.

Table 9.1 (continued)

Data Management - VCC

| | Timelir | Timeliness of | |
|-------------|------------------------|---------------|-----|
| | key-entry ¹ | entry 1 | |
| • | cum., | cum., | |
| | May | Aug. | Ra |
| | 96 | 96 | ınk |
| Atlanta | 94 | 94 | 7 |
| Birmingham | 78 | 22 | 12 |
| Bowman | 92 | 91 | 9 |
| Brigham | 63 | 65 | 15 |
| Buffalo | 96 | 96 | ļ |
| Chicago | 84 | 81 | 6 |
| lowa | 95 | 92 | 5 |
| LaJolla | 92 | 92 | 4 |
| Memphis | 64 | 64 | 16 |
| Minneapolis | 94 | 94 | လ |
| Newark | 76 | 78 | - |
| Pawtucket | 80 | 80 | 10 |
| Pittsburgh | 88 | 87 | 8 |
| Seattle | 9/ | 73 | 14 |
| Tucson | 91 | 06 | 7 |
| UCDavis | 75 | 75 | 13 |

¹ Timeliness = % data entered within two weeks. From WHIP1112. Distributed with CC Quality Assurance Reports. Can be run by CC as WHIP0774.

Table 9.1 (continued)

Data Management - NCC

| | Timplingee | Jose of | |
|-------------|------------|---------|-----|
| | | | |
| | key-entry | antry 1 | |
| | cum. | cum., | |
| | , May | Aug. | Ra |
| | 96 | 96 | ank |
| Chapel Hill | 7.4 | 7.3 | 20 |
| Chi-Rush | 68 | 99 | 21 |
| Cincinnati | 85 | 80 | 4.1 |
| Columbus | 7.8 | 08 | 17 |
| Detroit | 80 | 80 | 16 |
| Gainesville | 96 | 96 | 5 |
| GW U-DC | 96 | 26 | 4 |
| Honolulu | 9.2 | 82 | 15 |
| Houston | 7.8 | 68 | 14 |
| Irvine | 99 | 19 | 23 |
| LA | 61 | 99 | 22 |
| Madison | 86 | 86 | 1 |
| Mediantic | 98 | 28 | 12 |
| Miami | 93 | 06 | 6 |
| Milwaukee | 96 | 95 | 9 |
| Nevada | 98 | 98 | 3 |
| NY City | 88 | 88 | 11 |
| Oakland | 7.7 | 7.9 | 19 |
| Portland | 25 | 53 | 24 |
| San Antonio | 94 | 94 | |
| Stanford | 26 | 9.1 | 8 |
| Stony Brook | 98 | 98 | ļ |
| Torrance | 06 | 86 | 13 |
| Worcester | 92 | 88 | 10 |
| | | | |

¹ Timeliness = % data entered within two weeks. From WHIP1112. Distributed with CC Quality Assurance Reports. Can be run by CC as WHIP0774.

t

Table 9.1 (continued)

CC Performance Summary Data as of: 8/31/96 Outcomes Analysis - VCC

| | | - | | _ | | Rank ⁸ | 6 | 4 | 9 | | CI. | 0 | · · | 2 | 2 | | 9 | <u>6</u> | _ | ائ ا | ابي | _ |
|---------|-----------------------|------------------------|--|------|-------|-------------------|---------|------------|--------|---------|---------|---------|------|---------|---------|-------------|----------|-----------|------------|---------|--------|---------|
| | | | | | | | | 1 | - | | | | _ | | | | | | | | , | |
| Overall | Timeliness % Cases | closed within | 14 weeks of Form 337 | Cum. | Aug | 96 | 27 | 22 | 9 | 41 | 42 | 25 | 53 | 36 | 23 | 51 | 35 | 22 | 23 | 12 | 38 | 29 |
| 0 | ⊨% | Sos. | | Cum. | Мау | 96 | | | | | | | | | | | | | | | | |
| | | % Agreement | with Central Adj. | Cum. | Aug | 96 | | | | | | | | | | | | | | | | |
| | E | % Agi | | Cum. | | | | | | | | | | | | | | | | | | |
| | udicatio |) Ad::4:04:04:04:04 | dicated 4 days ⁶ | Cum. | Aug | 96 | 82 | 85 | \$ | 25 | 8/ | 16 | 20 | 13 | 7.3 | 79 | 98 | 88 | 74 | 69 | හ | 82 |
| | Local Adjudication | ÷ | % Agu within 1 | Cum. | Мау | 96 | | | | | | | | | | | | | | | | |
| | _ | % Assigned | cases adjudicated | Cum. | Aug | 96 | 9/ | 29 | 84 | 96 | 06 | 86 | 11 | 56 | 91 | 87 | <u> </u> | 98 | 96 | 73 | 82 | 8 |
| | | % Ass | ca; adjudj | Cum. | May | 96 | | | | | | | | | | | | | | | | |
| | | % Cases | assigned wimin 6 weeks ⁵ | Cum. | Aug | 96 | 11 | \$ | \$ | 83 | 87 | 85 | 96 | 94 | 86 | 94 | 96 | 99 | 91 | 100 | 88 | 100 |
| | | %. | assigne 6 we | Cum. | Мау | 96 | | | | | | | | | | | | | | | | |
| | Documentation % Cases | assigned to | ation | Cum. | Aug | 96 | 71 | 35 | 82 | ಜ | \$ | 74 | 79 | 76 | 93 | 87 | 9/ | 87 | 89 | 100 | 69 | 80 |
| | Docume C | assign | local adjudication | Cum. | May | 96 | | | | | | | | | | | | | | | | |
| | % Provider | r which | nents Isted³ | Cum. | Aug | 96 | 8 | 8 | 71 | 88 | 96 | ည | 80 | 97 | 35 | 35 | 8 | 83 | 98 | 100 | 91 | 80 |
| | % Pro | visits fo | | Cum. | Мау | 96 | | | | | | | | | | | | | | | | |
| | | | cted ² % | Cum. | . Aug | 96 | 74 | 8 | 15 | ያ | 92 | 35 | 8 | 8 | ક્ક | 96 | 52 | 24 | ಚಿ | 0 | | 45 |
| | E | ; - | rom 33D: Collected | Cum. | May | 96 | | | | - | | | | | | | | | | | | |
| | Collectio | 33: | % Collected for rorm 33D: OS' Collecte | Cum. | . Aug | 96 | 82 | 75 | န | જ | 93 | 79 | 88 | 88 | 8 | 93 | 81 | 30 | 39 | 93 | 96 | 91 |
| | Form 33 Collection | Form 33: | 28 Collect OS _20 | Cum. | May | 96 | | | | | | | | | | | | | | | | |
| | | 33: | cted for | Cum. | . Aug | 96 | 95 | 97 | ಜ | 26 | ¥ | 88 | 66 | æ | 88 | 86 | 38 | 98 | 88 | 9 | 88 | 96 |
| | | Form 33: | % Collected for CT | Cum. | May | 96 | | | | | | | | | | | | | | | | |
| | | _ | | | | | Atlanta | Birmingham | Bowman | Brigham | Buffalo | Chicago | lowa | LaJolla | Memphis | Minneapolis | Newark | Pawtucket | Pittsburgh | Seattle | Tucson | UCDavis |

¹ Initial Form 33 mailings from CCC to OS participants was delayed approximately 6 months.

² Only Form 33, ver. 3 starting March 1996 require Form 33D.

³ Excludes closed cases for which no documents were requested.

[%] cases assigned of those for which documents were requested.

⁵ % cases adjudication within 12 weeks or have been waiting less than 12 weeks but not yet sent to local adjudication.

^{6%} adjudicated within 14 days or have been waiting less than 14 days but have not yet been adjudicated.

⁷ % closed within 14 weeks of Form 33 or have been waiting less than 14 weeks from Form 33.
⁸ Rank based on overall timeliness.

Table 9.1 (continued)

CC Performance Summary Data as of: 8/31/96

Outcomes Analysis - NCC

| | | | | | | | | | | | | | | | | _ | | | | | | _ | | | | | _ | | _ | _ |
|---------|--------------------|------------|-----------------------------|---------------|------|--------------------|----|---------|---------|------|---------|------------|--------|---------------|---------|-------|----|---------|--------|-------|-----------|-----|-----------|-----|----------|---------|------|-------------|--------------|-----------|
| | | | • | | | Hank | | | 2 | 2 | 4 | 7 | • | , | - 4 | 4 | 2 | | 20 | 80 | 4 | 2 | 6 | ₽ | 19 | | | 2 | 80 | • |
| <u></u> | 2890 | Ses | aks of | , 8 | Cum. | Aug 96 | | ļ | \$ 6 | 3 | 5 | 3 2 | 1 | 8 8 | 3 6 | 3 6 | Æ | 4 | 2 | 55 | - | S | 1 | 47 | 13 | | \$ | 11 | 20 | 3 |
| Overall | Ilmell | 2 2 | 14 weeks of | Form 33' | Cum. | May 96 | | | | | | | | | | | - | | | | | | | | | | | | | |
| _ | | • | % Agreement with Central | Adj. | Cum. | Aug 96 | | | | | | | | | | | | | | | | | | | _ | - | | | 1 | |
| | c . | ; | A A | | | May 96 | 1 | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | | |
| | Local Adjudication | | % Adjudicated | 4 days | Cum. | Aug 96 May 96 | | | | | | \$ | 3 | | | | ě | ٤ | 3 | | | 9 | 3 | | | | ٤ | 3 | | |
| | ocal Ad | | % Adju | within 1 | Cum. | May 9 | • | i | | | | | | | | | | | | | | | | | | | | | | |
| | | | % Assigned | g | | Aug 9 | Ł | | | | | 8 | 3 | | | | 2 | \$ \$ | 3 | | | S | 3 | | | | | 3 | | |
| | | | % § | adjed | Cum. | May 9 | 5 | | | | | | | | | | | | | | | | 1 | | 1 | | | | \downarrow | |
| | | | % Cases assigned within | 6 weeks | Cum. | Aug 9 | 6 | | | | | 75 | ≅ | 6 | 8 | | | 5 | 3 | ï | 5 | 8 8 | 3 | 5 | | 2 8 | 3 | 3 | | 2 |
| | | 1 | assigne | * 9 | Cum. | May 9 | 6 | | | | | | | | | | | | | | | | | | | 1 | | | \downarrow | |
| İ | Documentation | % Cases | assigned to | cation | Cum | . Aug 9 . May 9 | 6 | | | | | ß | 8 | ٥ | 2 | | | 8 | 8 | ļ | = | 4 | 3 | > | | 3 | | ਲ | ŀ | ဖ |
| | Docum | چ د | gsse | adjud | Cum | . May 9 | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | | % Provider | visits for which | sted3 | Cum | . Aug 9 | 65 | | 68 | | | ន | 86 | 85 | ٥ | | | 2 | 2 | | 2 | 98 | 8 | \$ | 2 | 8 | 8 | 8 | | 0 |
| | | % Pr | | | Cum | . May 9 | 6 | | | | | | . : | | | | ļ | | | | | | | | | | | | | |
| | | | خ خ | 70 | Сил | . Aug 9 | æ | | 29 | 25 | | 20 | 4 | 48 | 19 | 0 | 13 | 9 | 2 | | 8 | જ | 45 | 74 | 9 | 흗 | S | 8 | 2 | 않 |
| | c | | , 100 | 8 | Cum | . May 9 | 6 | | | | | | | | | | | | | | | | | | | | | | | L |
| | 33 Collection | | 33. | 3 -0 | | . Aug 9 | 96 | 7 | 8 | 87 | ٥ | 2 | 81 | 77 | 74 | 52 | 86 | 87 | 75 | 9 | 88 | 82 | 71 | 87 | ន | 4 | 12 | 2 | 8 | 8 |
| | Form 33 (| | Form 33: | SO. | Cum | . May 9 | 96 | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | | | | | ı. Aug s | 96 | S K | 6 | 83 | 98 | 97 | 86 | 36 | 91 | 75 | 8 | 100 | 91 | 29 | 86 | 97 | 8 | æ | 95 | 8 | 26 | 66 | 68 | ક |
| | | | Form 33: | Collected for | | ı. May : | 6 | | | | | | | | | | | | | | | | | | | | | | | |
| - | | | | | | | | Chapter | Chrimat | mpns | Detroit | Galnesvide | CWI PC | alak Pilak | ion | | | Son | lantic | Miami | Milwaukee | ep: |) Sign | and | Brid | Antonio | Do | Stony Brook | Forrance | Mornochar |
| | | | | | | | | | | 3 | Page 1 | 두 | 3 | Honolulu | Houston | Ivine | 3 | Madison | Med | Mai | Ě | Ž | NY CITY | Oak | Portland | San | Star | Sign | Į | 1 |

¹ Initial Form 33 mailings from CCC to OS participants was delayed approximately 6 months.
² Only Form 33, ver. 3 starting March 1996 require Form 33D.

³ Excludes closed cases for which no documents were requested.
⁴ % cases assigned of those for which documents were requested.
⁵ % cases adjudication within 12 weeks or have been waiting less than 12 weeks but not yet sent to local adjudication.
⁶ % adjudicated within 14 days or have been waiting less than 14 days but have not yet been adjudicated.
⁷ % closed within 14 weeks of Form 33 or have been waiting less than 14 weeks from Form 33.

8 Rank based on overall timeliness.

10. Timeline

WHI Manuals, Vol. 1 - Study Protocol and Polices, Protocol Section 11 - Timetable defines the study timeline, reflecting the progress and expectations as of August, 1994. The official startup of all activities has be implemented on schedule with the exception of OS and CaD recruitment. The delay in OS for Office of Management and Budget approval created problems for VCCs in managing CT ineligible women and in planning VCC operations to achieve full OS recruitment within the recruitment timeline. To address this issue, in August 1994, the NIH Project Office agreed to extend VCC recruitment period for OS for one year.

The delay in CaD start-up was a result of difficulties in obtaining the supplements from the manufacturer. This results in a small loss in the expected person-years of observation as about 2,800 women were randomized in the CT (HRT/DM) more than 1 year before CaD was officially open and thus they missed the scheduled randomization at the first year follow-up visit. Since these women were offered CaD participation at the second annual visit, the total loss in person years associated with this delay is small.

The startup of the NCCs has been similar to the VCC experience. Though the NCCs appeared to get off the mark more quickly than VCCs their recruitment curve is now quite similar to the VCC's. NCCs are being strongly encouraged to be as aggressive as possible in meeting their goals and in making up existing deficits. In particular, NCCs are being strongly encouraged to stress CT recruitment over OS.

To meet the shortfall in recruitment created by the funding of 40 CCs rather than 45, 15 CCs have been funded for increased recruitment (see Section 2.2). This additional recruitment will extend these VCCs' recruitment efforts through the NCC recruitment period (1998), and accounts for the equivalent of 4.25 additional CCs recruiting for DM, 5.25 recruiting for HRT and 4.75 recruiting for OS. (See Figure 2.1 - Enhanced Recruitment Sites.)

With the original end of VCC recruitment scheduled for August 31, 1996 (still applicable for those not pursuing enhanced recruitment), we projected some modest shortfalls in VCC recruitment into HRT and DM. The majority of VCCs without enhanced recruitment appear to have an adequate population base to achieve their goals so the Steering Committee elected to modify the definition of the end of recruitment (i.e., women in the pipeline by the end of the recruitment period may complete screening and be randomized) and to extend HRT recruitment for six months. In addition, all clinics with the ability to recruit above existing goals within age cells with anticipated shortfalls studywide were given additional encouragement to do so. Thus all VCCs are expected to continue active recruitment efforts during the next six months. This additional flexibility is needed to handle the tremendous workload of the clinics who are trying to finish recruitment while conducting follow-up, intervention, and outcome activities for a large number of women.

During the next six months, NCCs and VCCs with enhanced recruitment will continue their emphasis on recruitment even while they take on an increasing load of follow-up activities, interventions and outcomes processing. These combined requirements place a very heavy burden on

clinic operations and staff. To provide some assistance another streamlining effort is planned to help improve efficiency.

The CCC will be working with CCs on predicting and improving adherence and retention, further development of DM maintenance activities, and refining the procedures for outcomes documentation and adjudication.

The CCC will also be continuing the centralized follow-up of OS women begun in April 1996 and beginning the analysis of stored blood specimens. Additional efforts on quality assurance, substudy procedures and analyses, trial monitoring and reporting, and manuscript publications are also underway.

11. Design and Power

Clinical Trial power calculations were based on assumptions involving the accrual rates, baseline characteristics, adherence to intervention (drop-outs) and control (drop-ins or drift), loss to follow-up, and incidence rates in the control groups, as well as the hypothesized intervention effects. See Appendix 2-A3 of the WHI protocol (WHI Manuals, Vol. 1 - Study Protocol and Policies, Section 1-A3 - Statistical Power for WHI Clinical Trial and Observational Trial) for more details.

Table 11.1 - Design Assumptions and Current Estimates summarizes the design parameters under the current protocol and the related observable quantities. As noted in earlier sections, the data are not adequate yet to provide useful estimates of some parameters related to follow-up.

The lag in accrual and the under-recruitment of women aged 70-79 has been presented and discussed among WHI Investigators. Defining the end of recruitment to allow women in the pipeline by the end of recruitment to complete screening and extending HRT recruitment by 6 months should allow VCCs without enhanced recruitment to meet their overall goals if they can meet their current monthly goals. Vanguard Clinical Centers with enhanced recruitment and NCCs have 17 months to the end of recruitment as defined above. This timeline is achievable if the recent surge can be maintained. If recruitment proceeds at the pace of meeting monthly goals we would expect to meet DM goals in May 1998 and HRT goals in July 1998.

Table 11.2 - Sensitivity Power Analyses for DM and HRT gives the initial sensitivity analyses of the effect of recruitment delays and changes in the age distribution on the power for the primary endpoints of DM and HRT that were presented previously. For DM we examined a recruitment delay that would result in the average follow-up time being reduced by four months. For HRT we chose an average reduction of follow-up to be six months. We looked at the effect of an age distribution of 15:23:45:17 for the age categories 50-54, 55-59, 60-69, 70-79. We have also calculated the combined effects of recruitment lags and changes to the age distribution though not accounting for the longer lags in accruing the older ages.

The power for cancer endpoints is more sensitive to reductions in average follow-up than the power for CHD. This is attributable to our design assumption that the lag time to full-preventive effects for cancer is linear over ten years, whereas CHD effects reach their maximum level after three years. Thus reductions in follow-up for cancer reduces the opportunity to observe the maximum treatment differences. The power for CHD is more sensitive to the age distribution of the recruited population, owing to the stronger dependence of CHD rates on age.

For the most part, either of the deviations examined has only a modest effect on power (2% - 3% reduction); combined, the effects are more concerning, particularly for the ERT and CHD hypothesis. These analyses have guided the development of our recruitment monitoring plan. This process will require diligent supervision and continued effort on the part of CCs, however, to avoid any further losses.

Additional sensitivity analyses examining recruitment delays in CaD and adherence factors for all three clinical trial components are underway and will be presented at the December 1996 meeting of the DSMB.

Table 11.1

Design Assumptions and Current Estimates

| Design Assumptions | Monitoring Parameter | Design | <u>C</u> | urrent Estima | ite for |
|--------------------------|--|---------------------|-------------------|-------------------|------------|
| | | Value | <u>HRT</u> | <u>DM</u> | <u>CaD</u> |
| | | | | | |
| Uniform Accrual Rate | Average follow-up | 8.92 yrs. | 8.37 ¹ | 8.59 ¹ | 6.871 |
| m | | 7.92 yrs for CaD | | | |
| Baseline Characteristics | % randomized as | | | | |
| Age | 50-54 | 10% | 19% | 21% | 20% |
| | 55-59 | 20% | 23% | 26% | 25% |
| | 60-69 | 45% | 41% | 40% | 41% |
| | 70-79 | 25% | 18% | 14% | 14% |
| Hysterectomy Status | Intact Uterus | 55% | 60% | | |
| | Hysterectomized | 45% | 40% | | |
| Loss to Follow-up/ | Event rate (%/year) | | no | data available | è |
| Competing Risk | CHD | 2% | | | |
| | All others | 3% | | | |
| Outcomes | Incidence Rates among Control Group | | | | |
| Breast Cancer | (%/year) | 0.355% ² | no- | data available | e |
| Colon Cancer | | 0.160%2 | | | |
| CHD | | 0.294%2 | | | |
| Hip Fractures | | 0.258%2 | | | |

⁵⁵ Assumes monthly goals will be met in all remaining months and that all current deficits will be filled by redefining the end of recruitment and extending HRT recruitment for VCCs without enhanced recruitment by 6 months.

² These values represent the expected incidence among control women during the early years of the study. Aging effects and secular trends are incorporated in the design, as appropriate.

Table 11.1. (continued)

Design Assumption and Current Estimates

| Adherence | <u>Parameter</u> | <u>Design</u> | <u>Value</u> | Current Est | imate for |
|-----------------|-------------------------|---------------------|--------------|---------------------|-------------------|
| DM Intervention | % cal from fat | <u>Intervention</u> | Control | <u>Intervention</u> | Control |
| | Baseline | 38 | 38 | 34.43 | 34.4 ³ |
| | Year 01 | 21.7 | 37.8 | 23.14 | 34.0 ⁵ |
| | Year 02 | 22.6 | 37.2 | 25.5 ⁶ | 34.9 ⁷ |
| | Year 10 | 26 | 34 | | |
| HRT | % stopping intervention | | | | |
| | Year 1 | 69 | 6 | 9.59 | <i>7</i> 6 |
| | Years 2-10 | 3%/y | ear | No data av | /ailable. |
| CaD | % stopping intervention | | | | |
| | Year I | 69 | 6 | 13.49 | % ⁸ |
| | Years 2-9 | 3%/y | ear | No data av | ailable. |

³ Based on 1006 baseline Four Day Food Records (380 Intervention, 626 Control) and 5882 Year 1 Control group FFQ's (see Table 6.5).

⁴ Based on 172 Year 1 Four Day Food Records and 4040 Year 1 FFQs in the Intervention Arm.

⁵ Based on 277 Year 1 Four Day Food Records and 5882 Year 1 FFQs in the Control Arm.

⁶ Based on 356 Year 2 FFQs in the Intervention Arm

⁷ Based on 545 Year 2 FFQs in the Control Arm

⁸ Calculated as annualized rates using data from Table 4.3 - Intervention Status

Table 11.2
Sensitivity Power Analyses for DM and HRT

Dietary Modification and Breast Cancer

Power (%)

| <u>Year</u> | Intervention Effect (%) | Design | Average follow-up reduced by 4 months | Change in Age <u>Distribution</u> * | Change in Age Dist. AND average follow-up reduced by 4 months |
|-------------|-------------------------|--------|---------------------------------------|-------------------------------------|---|
| 2001 | 11 | 29 | 27 | 29 | 26 |
| | 12 | 37 | 33 | 36 | 33 |
| | 14 | 45 | 41 | 44 | 40 |
| 2004 | 11 | 65 | 61 | 64 | 60 |
| | 12 | 77 | 73 | 775 | 72 |
| | 14 | 87 | 84 | 86 | 83 |

Dietary Modification and Colorectal Cancer

Power (%)

| <u>Year</u> | Intervention Effect (%) | Design | Average follow-up reduced by 4 months | Change in Age Distribution* | Change in Age Dist. AND average follow-up reduced by 4 months |
|-------------|-------------------------|--------|---------------------------------------|--------------------------------|--|
| 2001 | 18 | 39 | 35 | 36 | 33 |
| | 20 | 47 | 43 | 43 | 39 |
| | 22 | 55 | 50 | 51 | 46 |
| 2004 | 18 | 84 | 81 | 81 | 77 |
| | 20 | 91 | 89 | 89 | 86 |
| | 22 | 96 | 94 | 94 | 92 |

^{*}Age distribution for the design is 10:20:45:25 for age categories 50-54, 55-59, 60-69, 70-79. Alternative distribution is 15:23:45:17.

Table 11.2 (continued) Sensitivity Power Analyses for DM and HRT

ERT and CHD

Power (%)

| <u>Year</u> | Intervention Effect (%) | Design | Average follow-up reduced by 6 months | Change in Age Distribution* | Change in Age Dist. AND average follow-up reduced by 6 months |
|-------------|-------------------------|--------|---------------------------------------|-----------------------------|---|
| 2001 | 25 | 46 | 41 | 40 | 35 |
| | 30 | 62 | 56 | 54 | 49 |
| | 35 | 76 | 70 | 68 | 62 |
| 2004 | 25 | 64 | 62 | 57 | 55 |
| | 30 | 81 | 79 | 74 | 71 |
| | 35 | 92 | 90 | 87 | 85 |

PERT and CHD

Power (%)

| <u>Year</u> | Intervention Effect (%) | <u>Design</u> | Average follow-up reduced by 6 months | Change in Age <u>Distribution</u> * | Change in Age Dist. AND average follow-up reduced by 6 months |
|-------------|----------------------------|---------------|---------------------------------------|-------------------------------------|--|
| 2001 | 25 | 54 | 48 | 47 | 42 |
| | 30 | 70 | 64 | 62 | 57 |
| | 35 | 84 | 79 | 77 | 71 |
| 2004 | 25 | 73 | 71 | 65 | 63 |
| | 30 | 88 | 86 | 82 | 80 |
| | 35 | 96 | 95 | 92 | 91 |

^{*}Age distribution for the design is 10:20:45:25 for age categories 50-54, 55-59, 60-69, 70-79. Alternative distribution is 15:23:45:17.

12. Study Activities

A number of WHI-related scientific endeavors have been initiated by study investigators. Publications in scholarly journals are approved through the Presentations and Publications Advisory Committee and the Project Office. Ancillary studies are approved by the Design and Analysis Advisory Committee and the Project Office. Those initiatives that could potentially threaten the integrity of the Clinical Trial results before the completion of the study are to be referred to the DSMB for review. A full statement of the relevant policies may be found in the WHI Manuals, Vol. 1 - Study Protocol and Policies, Section 3 - Study Policies.

Table 11.1 - Publications presents current and planned publications that have been approved by the Publications and Presentations Committee.

Table 11.2 - Ancillary Studies lists all ancillary study proposals received by the Design and Analysis Committee along with some key features of the studies and their current status.

Table 12.1 Publications

| Name of Manuscript | Writing Group | Data Focus | Type | Stage | Publisher |
|---|---|------------|------|-------|--|
| Informed consent in the Women's Health McTiernan, Franzi, Johnson, Initiative Clinical Trial and Observational Manson, Nevitt, Rossouw, Taylor, Study | McTiernan, Franzi, Johnson, Manson, Nevitt, Rossouw, Taylor, Carleton | Gen. | 2 | 10 | Journal of Women's Health, Vol 4, Num.5 |
| at diet practices of older women: ence and implication for dietary ment" | Patterson, Caggiula, Coates, Kristal, Ritenbaugh, Snetselaar, Stern, Tylavsky, Van Horn | Gen. | 2 | 10 | Journal of the American Dietetic Association, Vol 96, 670-679, 1996 |
| The role of randomized controlled trials Prentice, Rossouw, Join assessing the benefits and risks of long-Freedman, McTiernan term hormone replacement therapy: Example of the Women's Health Initiative | Prentice, Rossouw, Johnson, Freedman, McTiernan | CT | 2 | 10 | Menopause, Vol 3, No. 2, pp. 71-76 1996 |
| The evolution of the Women's Health Initiative: Perspectives from the NIH" | Rossouw, Finnegan, McGowan, Clifford | Gen. | 2 | 10 | Association, Vol. 50, 50-55, 1995 |
| | Tinker , Burrows, Henry, Patterson, Van Horn, Rupp | Gen. | 2 | 10 | Nutrition & Women's Health, Chapter 18, 510-542, 1996 |
| Women Health Initiative: Why now? What is it? What's new? | Matthews, Shumaker, Hunt, Bowen, Klesges, Kaplan, Ritenbaugh, Langer, Weiss | Gen. | 2 | 6 | American Psychlogist |
| A comprehensive data management system for multicenter studies | Anderson, Davis, Koch | Gen. | 2 | 8 | Controlled Clinical Trials |
| The effects of ethnicity on mammography Bush , utilization in a postmenopausal population | Bush, Langer | Gen. | 3 | ∞ | |

| Name of Manuscript | Writing Group | Data Focus | Type | Stage | Publisher |
|--|--|------------|------|-------|-------------------------------|
| Approaches to monitoring the results of long-term disease prevention trials: Examples from the Women's Health Initiative | Freedman, Anderson, Kipnis, Prentice, Wang, Rossouw, Wittes, DeMets | CT | 2 | 8 | Controlled Clinical Trials |
| WHI design manuscript | Prentice, Rossouw, Furberg, Johnson, Henderson, Cummings, Manson, Freedman, Oberman, Kuller | Gen. | 2 | ∞ | Controlled Clinical Trials |
| Combined hormone replacement therapy and occurrence of disease in postmenopausal women | Johnson, McTiernan, Bachman, Beresford, Dunn, Grady, Judd, Hunninghake, Manson | Gen. | 2 | 5 | |
| sting for restricted ment error | Wang, Anderson, Prentice | Gen. | 2 | 5 | |
| Factors associated with insurance status among participants in the WHI | Hsia, Sofaer, Lillington, Zapaka, Limacher, Kiefe, Sennott-Miller, Mason, Bowen, Kemper | Gen. | 2 | 3 | |
| Correlates of endogenous sex hormone concentrations in WHI | McTiernan, Wactawski-Wende, Chen, Meilahn, LaVelleur, Cummings, Hiatt, Baum, Hulka, Wang | CT | 2 | 3 | |
| Psychosocial and behavioral correlates of moderate alcohol consumption in women | Powell, Hymowitz, Criqui, Ockene, Finnegan, Castro, Trevisan, Curb, Hunt, Noonan | CT | 2 | 3 | |
| Patterns of antihypertensive treatment and Wassertheil-Smoller, Manson, control among postmenopausal women Wong, Lasser, Kotchen, Langer Grimm, Black, Psaty, Anderson | Wassertheil-Smoller, Manson, Wong, Lasser, Kotchen, Langer, Grimm, Black, Psaty, Anderson | SO | 2 | 3 | |
| Cardiovascular and other physiological correlates of depression | Wassertheil-Smoller, Talavera, Campbell, Shumaker, Ockene, Robbins, Dunbar, Greenland, Cochrane | Gen. | 2 | 3 | |
| Prevalence of pelvic organ prolapse and urinary incontinence in women | Clark, Nygaard, Harris, Varner, Chang, Hendrix, Barnabei, Maddox, McTiernan | CT | 2 | 2 | |

| Name of Manuscript | Writing Group | Data Focus | Type | Stage | Publisher |
|--|---|------------|------|-------|-----------|
| An examination of the differences in total Hebert, Beresford, Patterson, energy and several nutrient scores derived Chlebowski, St. Jeor, Coates, Elmer, from the FFQ vs estimates based on basal Hartman, Prentice metabolic requirements and Food Record - derived scores in the WHI | Hebert, Beresford, Patterson, Chlebowski, St. Jeor, Coates, Elmer, Hartman, Prentice | Gen. | 2 | 2 | |
| Body weight and anthropometric measures of adiposity | Manson, Kotchen, Perri, Lewis, Johnson, Freed, Hall, Allen, Foreyt, Tinker, Noonan, Stefanick | SO | 2 | 2 | |
| The relationship of dietary phytoestrogens Roman, menopausal to symptoms and major Brzyski, morbidity in postmenopausal women | Roman, Woods, Caggiula, Judd, Brzyski, Liu, Burke, Assaf, Patterson | CŢ | 2 | 2 | |
| Are antioxidants associated with bone mineral density in older women? | Seeley, Kritchevsky, Wactawski- Wende, Csuka, Haan, Cauley, Jackson, Caan, LaCriox, Wang | CT | 2 | 2 | |
| A comparative analysis of predictors of recruitment for Hispanic and Caucasian women in the WHI | Talavera, Fouad, Howard, Satterfield, Schenken, Simon, Porter, Bonk, Hunt, Wang | Gen. | 2 | 2 | |
| A comparison of health behaviors and valanis, Whitlock, Char health status among lesbian, bisexual and Bassford, Bowen, Carter heterosexual women enrolled in the WHI | Valanis, Whitlock, Charney, Bassford, Bowen, Carter | CJ | 2 | 2 | |

Type

1= Group authored (no individual names listed)2=Individual author - study-wide publication3= Other (local) publication

Stage

2= Approved

3=Analysis proposed

4= Analysis in progress

5= Draft manuscript

6= Final manuscript submitted to P&P Committee

7= Final manuscript approved and sent to WHI Project Office

8= Submitted

9= In press

16= Published

Table 12.2 Ancillary Studies

| | $\overline{}$ | | | | _ | _ | | | _ | | | | | | | — | | | |
|--|---------------|-----------------------|-----------------|---------------------------------|--------------|----------------|----------------------------------|---------------------------|----------------|----------------------|---------------------------------|-----------------------|--------------------|------------------------------------|-----------------------------|----------------|-----------------------|-----------------------------------|---------------------------------------|
| CCC Subcontract? (Y/N) | NA | AN | AN | YES | | YES | | | YES | YES | | Y N | | O _Z | | | | | |
| Final NIH PO Approval | NA | A A | NA | | ΝΑ | ٩V | Q. | | YES | Q. | Y Y | Ą. | Q. | YES | | ۸A | | | AN |
| Final D&A Approval | ΑN | NA | NA | | ΝA | NA | | | YES | ON | A Z | NA | O _N | YES | | ΑN | | | ₹ |
| Duration | 5 years | WHI | NA | 5 years | 1.5 years | 5 years | 9 years | 15 mos. | 7 years | 5 years | 5 years | 4 years | 12 years | 2 years | 4 years | 5 years | 2 years | 4 years | 4 years |
| Start Date | Ā | NA | NA | 4/1/96 | 4/1/95 | 1/1/96 | asap | 7/1/94 | 7/1/95 | 26/1//2 | 8/1/95 | 7/1/94 | ASAP | 7/1/94 | NA | 7/1/95 | 10/25/94 | 11/1/95 | Ą |
| Speci- mens? | Ā | NA | AN A | Ϋ́ | ΝΆ | NA | Υ Y | ΝΑ | NA | NA | urine | NA | ٧A | Ą Ą | A | NA | NA | Y V | 1.2 mi |
| Sample Size | 4,000 | 2,200 | N A | 10,922 | 160 | 1,200 | 6,500 | 1,500 | 650 | 80,000 | 009 | 360 | 150 | 500 | 1,300 | 005'\$ | 1,000 | 120 | 782 |
| Study Population | DW | SO | WHI Partners | DM Partners | DM | SO | нвт | WHI Partners | OS | DM | os | DM only | ст | os | OS | OS, 65+ | so | WHT | so |
| ID#s of Other Participating Clinics | 5 CCs | 100 | 1 00 | ALL | none | BUOU | 12, 14, 16, 22, 24, 25, 45 | none | none | All | none | 1 CC | อบดน | none | none | \$30.7 | auou | Birmingham , Atlanta, Miami | lowa, LaJolla, Chiago w.side |
| Active? | | | | | yes | | | | sək | | yes | | yes | yes | yes | | | | |
| Funding Status | dropped | pending submission | dropped | pending submission | funded | dropped | under review | pending submission | funded | dropped | funded | pending submission | funded | funded | pepunj | paddoup | pending submission | under review | dropped |
| Initial N#H PO Approval | AN | NA | NA | yes | NA | NA | NA | NA | NA | yes | NA | NA | NA A | NA | yes | A N | yes | yes | NA |
| Initial D&A Approval | Approved | Not an AS | Not an AS | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Declined | Approved | Approved | Approved | Approved | Approved | Approved | Approved |
| WHI Investigator | Greg Burke | Lew Kuller | Lew Kuller | Al Oberman | Deb Bowen | Phil Greenland | Lew Kuller | Robert Langer | Al Oberman | Lew Kuller | Robert Langer | Norm Lasser | Lew Kuller | Tom Moon | Maurizio Trevisan | Phil Greenland | Norm Lasser | Deb Bowen | Phil Greenland |
| Study's Principal Investigator(s) | John Crouse | Joel Weissfeld | Joel Weissfeld | Al Oberman James Shikany | Pamela Green | Susan Hughes | Lewis Kuller | Robert Langer | Cora E. Lewis | Elaine Meilahn | Daniel Kripke | Charles Mouton | Lewis Kuller | Scott Going, Tamsen Bassford | Jean Wactawski- Wende | Mary McDermott | Charles Mouton | Jim Grizzle | Anthony Orencia |
| Title (abbrev.) | ADAPT | PLCO-OS | PLCO-Partners | Prostate Cancer- Partners | Fat Distaste | Arthritis | Ankle/Arm BPI | Partner's Health Study | Oral Bone Loss | Urine Metabolites | Sleep and Mood Predictors | Empowerment | Spinal Stenosis | HDL Metabolism | Osteopenia | LEAD & BP! | Domestic Violence | Fat Aversion | Coagulation Proteins |
| Study ID# | AS1 | AS2 | AS3 | AS4 | ASS | AS6 | AS7 | ASB | AS9 | AS10 | AS11 | AS12 | AS13 | AS14 | AS15 | AS16 | AS17 | AS18 | AS19 |

Table 12.2 (continued)

| $\overline{}$ | | | | | | _ | | | | | - | | | | | | | | | | |
|--|------------------------------------|---------------------------------------|------------------------|--------------------|-----------------|---------------|----------------|---|----------------------------|---------------------------------|----------------------------|----------------------|----------------------|---------------------|--------------------|-----------------------------|------------------------------------|--------------------------------------|-------------------------------------|-----------------------|--|
| CCC Subcontract? (Y/N) | YES | YES | | | | YES | YES | YES | ON | | YES | ON | ON | ON | | possible | YES | | | YES 1 | |
| Finat NIH PO Approvat | NA | NA | | | | | | | ON | | | YES | õ | YES | | | | | | YES | |
| Final D&A Approval | NA | NA | | | | | | | ON | | | YES | Q. | YES | | | | | | YES | |
| Duration | 2 years | 5 years | 9 years | 8 years | 2 years | 2 years | 5 years | 5 уевгs | 5 year follow-up | 6 months | 4 years | | | 6-8 months | 4 years | 4 years | | NA | NA | 6 years | |
| Stert Date | 2/1/96 | NA | NA | NA | 1/3/95 | 7/1/95 | 4/1/96 | 96/1/9 | NA | 9/1/95 | 6/1/96 | ΑN | ΑN | 7/31/95 | 5/1/96 | 7/1/96 | | 9/1/96 | 9/1/96 | 3/1/96 | |
| Speci- mens? | A N | AN | NA | NA | NA | ΑN | ΨZ | 2 ml | 1.5 ml | NA | 2.5 ml | NA | NA NA | NA | NA | NA | NA | N A | NA | NA | |
| Sample Size | 2,666 | 2,666 | 500 | 100,000 | 168 | 2,700 | 11,374 | 2,600 | NA | 300 | 67,000 | 300 | 400 | 069 | 400 | 3,000 | NA | NA | NA | 4,800 | |
| Study Population | so | ст | ст | so | so | so | HRT | CaD/OS | NYC OS ppts. | нят | so | so | NA | SO | СТ | NA | нят | AN | NA | HRT women | |
| ID#s of Other Participating Clinics | lrvine | 2 CCs | none | ΑII | none | попе | ALL | ALL | none | none | ALL | none | попе | none | попе | lowa | ALL | Brirringham , Buffalo, LaJolla | Brimingham , Buffalo, LaJolla | ALL except Seattle | |
| Active? | | | | | | | | | | | | | | yes | | | | | | yes | |
| Funding Status | dropped | dropped | dropped | Not an AS | under review | under | under | under review | pending submission | under raview | pending submission | funded | under review | papunj | under review | under review | under review | pending submission | pending submission | funded | |
| Initial NIH PO Approval | AN | NA | NA | ΑN | yes | yes | yes | yes | yes | yes | yes | yes | | yes | yes | yes | yes | NA | NA | yes | |
| Initial D&A Approval | Approved | Approved | Approved | Not an AS | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Decision Pending | Decision Pending | Approved | |
| WHI Investigator | Rowan Chlebowski Harbor UCLA | Rowan Chlebowski Harbor UCLA | Richard Grimm | Rebecca Jackson | Robert Langer | David Curb | Robert Wallace | David Sheps | S. Wassertheil- Smoller | JoAnn Manson | S. Wassertheil- Smoller | Al Oberman | Robert Langer | Al Oberman | Susan Hendrix | Jane Kotchen | David Sheps | ЈоАпп Мапѕол | JoAnn Manson | Curt Furberg | |
| Sludy's Principal Investigator(s) | Robert Detrano | Robert Detrano | Jennifer Robinson | Randall Harris | Diane Schneider | Kamal Masaki | James Cerhan | Barbara Hulka | S. Wassertheil- Smoller | Michael Gaziano JoAnn Manson | Geoffrey Kabat | Robert Kleinstein | Kathryn Boe | Charlotte Mayo | Darothy Nelson | Arthur Hartz | Barbara Hulka | JoAnn Manson | Paul Ridker | Sally Shumaker | |
| Title (abbrev.) | EBCT-1 (Coronary Screening) | EBCT-2 (Elfect of DM, HRT, CaD) | Vascular Compliance | NSAIDS | Sketetal Health | Ankle-Arm BPI | Knee-Hip OA | Vitamin D, Calcium, & Breast Cancer | Aging | Oxidation Status | Lung Cancer | Eye Care Use | Recruitment Tech. | HRT and Body Fat | Bone Morphology | Risk Factors for Fatigue | HRT and Mammographic Density | Lipid Markers | Hemostatis | WHI Memory Study | |
| Study ID# | AS20 | AS21 | AS22 | AS23 | AS24 | AS25 | AS26 | AS27 | AS28 | AS29 | AS30 | AS31 | AS32 | A533 | AS34 | AS35 | AS36 | AS37 | AS38 | AS39 | |
| | | | | | | | | | | | | | | | | | | | | | |

Table 12.2 (continued)

| | | | Т | | | | | | ··· T | | | - | —т | | ······································ | | Y | |
|--|-----------------------------------|------------------------|------------------------------------|-----------------------|------------------|--|-----------------------|----------------------|--------------------------|-------------------|-----------------------|-----------------------|----------------------------|------------------------|--|-----------------------------|--------------------------------------|---|
| CCC Subcontract? (Y/N) | ON | ON | O _N | ON | PC | PC . | sen | ON | | | ON N | NA | | Y Y | | YES | O | ON . |
| Final NIH PO Approval | Q. | A N | ON | ON. | YES | | | YES | YES | NA | | ΝA | | NA | | | | |
| Finat D&A Approval | ON | | ON | ON | YES | | | YES | YES | AN A | | AN | | A. | | | | |
| Duration | NA | 5 years | - | 4 years | NA | 2 years | 5 years | | 5 / Mo. | AN | 1 yr | | 4 years | 4 years | 4 years | 4 years | 2 years | 2 увагs |
| Start Date | NA | 10/1/95 | NA | 10/1/95 | asap | 8/1/96 | 12/1/96 | | 2/1/96 | | | | 2/1/97 | 4/1/97 | 10/1/96 | 9/1/6 | 9/1/96 | 96/1/6 |
| Speci- mens? | NA | poold | NA | blood, urine | vaginal | NA | NA | NA | NA | NA | | | 2mľ | blood, urine | N/A | N/A | N/A | N/A |
| Sample Size | All | 24 | Αľ | 362 | 100 | 1,350 | 34,200 | | 1,607 | | | 400 | 782 | 17,500 | 400 | 17,270 | 260 | 120 |
| Study Population | NYC ppts. | Houston ppts. | so | Los Angeles CT | HRT ppts. | Women | DM Husbands | WO | DM, HRT, OS | MO | | so | so | so | WO | DM, HRT, OS | Wa | so |
| ID#s of Other Participating Clinics | попе | none | ALL | none | none | 14, 16, 21, 30, 48, 49, 50, 53, 65, 67, | All | none | нопе | none | none | none | ₽ | 20 | попе | 4 | | none |
| Active? | yes | | | | yes | | | yes | yes | | | | | | | | | |
| Funding Status | pending submission | pending submission | pending submission | pending submission | funded | pending submission | pending submission | papunj | funded | pending | pending submission | pending submission | pending submission | pending submission | pending submission | pending submission | pending submission | under review |
| Initial NIH PO Approval | yes | NA | NA | NA | yes | yes | yes | yes | yes | NA | yes | NA | yes | NA A | ٧V | yes | yes | yes |
| Initial D&A Approval | Approved | Declined | Declined | Declined | Approved | Approved | Approved | Approved | Approved | Declined | Approved | Deckned | Approved | Declined | Declined | Approved | Approved | Approved |
| WHI Investigator | Sylvia Wassertheil· Smoller | John Foreyt | Vallery Miller | Howard Judd | Philip Greenland | Langer/Lo | Yasmin Rahmani | RossPrentice | John Foreyt | A. McTieman | Sylvia Smoller | | | | | | | |
| Study's Principal Investigator(s) | S. Wassertheil- Smoller | Joel Marrisett | Judith Hsia Shoshanna Solaer | William Goodman | Anthony | James R. Herbert | Albert Oberman | Langer/Lo | Syfvia Smoller | Yasmin Rahmani | BethBurrows | Adrian LeBlanc | Anne McTieman | Geoffrey Kabat | Albert Oberman | Gregory Talavera | Alice Thomson | Cheryl Kitenbaugh |
| Title (abbrev.) | Mammography Behavior | Metab. Lipoproteins | Insurance | Bone Mass | Vaginal pH | RSBD Self- Report in the WHI | Prostate & Colorectal | Diet & Motivation | Prostate cancer pilot | ADA- PILOT | ADA-PILOT | Bone Quality in OS | Endogenous Sex Hormones | Diet & Hormone Dev. | Women & Minority | Predictors of Participation | Behavioral & Psychosocial Predictors | Hispanic Women's Advocacy and Reten, Strategies |
| Study ID# | AS40 | AS41 | AS42 | AS43 | AS44 | AS45 | AS46 | AS47 | AS48 | AS49 | AS50 | AS51 | AS52 | AS53 | AS54 | AS55 | AS56 | AS57 |

Table 12.2 (continued)

| | | | | _ | _ | | |
|--|--|--------------------------------------|---|---|----------------------------|-----------------------|----------------------------|
| CCC Subcontract? (Y/N) | ON | | | | | | |
| Final NIH PO Approval | | | | | | YES | |
| Final D&A Approval | | | | | | | |
| Duration | 3 years | : | | | 9 years | 2 years | 3 years |
| Start Date | 9/1/96 | | | | | 90/06/6 | |
| Speci- mens? | N/A | | | | | | |
| Sample Size | 120 | | | | 3,000 | 800 | 009 |
| Study Population | | | | | нят | so | |
| ID#s of Other Participating Clinics | опоп | | | | | | |
| Active? | | | | | - | | |
| Funding Status | pending submission | pending submission | pending submission | pending submission | pending submission | pending submission | pending submission |
| Initial NIH PO Approval | yes | NA | sek | yes | yes | yes | |
| Initial D&A Approval | Approved | Declined | Approved | Approved | Approved | Approved | Declined |
| WHI Investigator | | | | | | | |
| Study's Principal Investigator(s) | Marianna Baum | Marianna Baum | Al Oberman | Robbins | | Pam Haines | |
| Title (abbrev.) | Enrollment of Hispanic Women in Prevent. Trials | Prevalence of thyroid problems | Diet and prostate CA in WHI spouses | Memory in HRT in WHIMS participants | Age Refated Macufopathy | Eating Style Index | Mammography Sensitivity |
| Study ID# | ASSB | AS59 | AS 60 | AS 61 | AS 62 | AS 63 | AS 64 |