

Women's Health Initiative Clinical Trial and Observational Study

Annual Report

Volume 1: Study Progress September 1, 1993 to August 31, 1994

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WHI Annual Report Volume 1 Study Progress

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Executive Summary

The Women's Health Initiative Clinical Trial and Observational Study was launched into the field on September 1, 1993. Recruitment into the Hormone Replacement Therapy (HRT) component and the Dietary Modification (DM) component of the Clinical Trial is underway with 4,496 women currently randomized, 1,447 to HRT (59.6% of cumulative goal) and 3,665 to DM (78.7% of cumulative goal). Recruitment into the Calcium and Vitamin D (CaD) component is scheduled to begin at the first annual follow-up. Enrollment into the OS, delayed by the need to obtain OMB approval, was officially opened on September 1, 1994.

The lag in recruitment to HRT and DM is related to both some initial delays in Clinical Center startup and in the size and complexity of the program. A major streamlining effort was undertaken to make the program fit within the existing budget. Since that time good progress has been made in meeting monthly goals. Continued effort will be needed to meet the cumulative goals. Attention is also needed to meet subgroup goals for age, hysterectomy status, and minority populations.

With the minimal follow-up data currently available, the adherence to HRT cannot yet be accurately estimated. Intervention activities for DM are proceeding with 70 intervention groups formed and excellent completion of sessions and self-monitoring reports of fat consumption. The major issues in DM are the delays in assigning women to intervention groups and, for clinic operation, the size of the groups.

Quality assurance issues, such as timeliness and completeness of data, have achieved a satisfactory level. Variation between sites should be further monitored for clarification of existing problems and further improvements.

Further development of follow-up and outcomes procedures is underway. The existing data are limited but are included in this report for completeness. More detail will be provided in the future. Activities of the CaD and OS components will also be monitored over the coming year.

1. Preliminary Remarks

This report documents study activities of the Women's Health Initiative Clinical Trial (CT) and Observational Study (OS) during the period September 1, 1993 to August 31, 1994. Volume 1: Study Progress summarizes enrollment, follow-up, intervention, outcomes, and data quality issues. Study-wide and Clinical Center (CC) specific performance reports are included. Volume 2: Clinical Trial Monitoring compares randomization groups for each CT component (Hormone Replacement Therapy (HRT), Dietary Modification (DM), and Calcium and Vitamin D [CaD]) with respect to follow-up, safety and outcomes. Volume 1 is intended for review and reference by all WHI centers, committees and investigators. To protect the blinding and confidentiality of results, Volume 2 is distributed to the WHI Data and Safety Monitoring Board (DSMB) and appropriate National Institutes of Health (NIH) and Clinical Coordinating Center (CCC) staff.

All reports summarize data provided to the CCC by August 31, 1994. Except for *Table 2.1. - Cumulative Recruitment Activity Summary* describing recruitment strategies by CC, 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:

- Ogden BioServices, Rockville, Maryland, CCC subcontractor for specimen repository and drug distribution (Harrison Hoppes, PhD, President).
- Epicore, 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).

Table 1.1.

Database Abbreviations for WHI CCs

Abbreviation	CC Institution and Location	Principal Investigator
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
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 MPH
CHICAGO	Northwestern University Chicago and Evanston, Illinois	Phillip 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	Thomas Moon, PhD
UCDAVIS	University of California, Davis Sacramento, California	John Robbins, MD

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 Hormone Replacement Therapy (HRT) or Dietary Modification (DM) components are invited to Screening Visit 1 (SV1). For efficiency, many CCs ask women to complete Form 60 - Food Frequency Questionnaire (FFQ) to determine dietary eligibility prior to scheduling SV1.

Women attending SV1 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 SV1 or through mail contact immediately thereafter. Women still eligible for HRT or DM are given component-specific informed consent documents and are scheduled for Screening 2.

Women attending SV2 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 (SV3) 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 receive appropriate laboratory results.

At SV3, 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. Women are randomized to HRT, DM, or both, as appropriate, at this visit.

Women who become ineligible for or uninterested 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 Calcium and Vitamin D component (CaD) are invited to participate 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 more variable between 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.

Note also that the WHILMA data collected before SV1 is labeled as SV0, regardless of the format of data collection (visit, mail, or telephone contact).

2.2. Recruitment

Recruitment efforts of CCs are tailored to the local population and resources. Table 2.1. - Cumulative Recruitment Activity Summary summarizes the types and volumes of various activities conducted by each CC between September 1, 1993 and August 31, 1994. The initial NIH announcement of Vanguard Clinical Center (VCCs) on March 8, 1993 generated considerable interest. Most VCCs collected up to 3,000 names of interested women. Initial screening efforts focused on these enriched lists that were not exhausted until the spring of 1994. The experience documented in this report thus represents the results of recruitment efforts primarily directed at highly motivated women.

2.3. Screening

Screening for the CT components officially opened in VCCs on September 1, 1993. Ten VCCs began screening participants by the end of September. Local IRB issues, facilities and staffing delays, and competing study recruitment delayed the start of screening activities at several sites until October (four VCCs) and November (two VCCs).

Figure 2.1. - Projected and Actual Screening Visits displays cumulative study-wide screening activities by month with the projected number required based on current yield information. The first four months of recruitment showed activities well below the initially projected required number but considerable effort has been made to overcome the initial shortfall. To date, the study has conducted 12,858 SV1s, 7,017 SV2s, and 5,072 SV3s. It was noted early on that screening and data collection activities as originally implemented were too onerous. In November 1993, a Recruitment and Screening Task Force was formed and asked to make recommendations to improve the efficiency of the program, particularly regarding screening and eligibility. The most important change increased the efficiency of early screening activities, primarily by identifying more of CT ineligible women before SV1, thereby reducing the number of SV1s required. These changes were implemented in the first quarter of 1994.

Original projections assumed that 34% of SV1 women would proceed to SV2, 96% of SV2 women would proceed to SV3, and 98% of SV3 women would be randomized. From these and an average time of one month between screening visits, we calculated that, to meet VCC recruitment goals by August 31, 1996, the following level of screening activities should be maintained beginning by dates indicated: 131 SV1s per month as of October 1993; 45 SV2s per month as of November 1993; and 43 SV3s per month as of December 1993.

Current data suggest that these initial projections were inaccurate, especially with recruitment tailored for CT alone. Yields by stage during this reporting period (shown in *Table 2.2. - Recruitment Yield by Stage*) were as follows:

	Yield Es	timates	Project	ed # of Monthly	Visits/CC
Stage	<u>Initial</u>	Current	<u>Initial</u>	Current CT only	Current CT + OS
SV1	34%	81%	131	62	108
SV2	96%	94%	45	50	50
SV3	98%	91%	43	47	47

This suggests that 69% of women attending SV1s are eventually randomized, more than twice the original estimate of 33%. Table 2.3. - Clinical Center Specific Recruitment Yields summarizes the VCC-specific yields by stage. We also note that across all VCCs, the yield of SV0 is approximately 71%. For VCCs regularly entering all prescreening data, the SV0 yield is approximately 62%.

Table 2.4. - Race and Ethnicity Specific Recruitment Yields by Stage and Table 2.5. - Age Specific Recruitment Yields by Stage present summaries of yields for CT randomizations by race/ethnicity and age category. Though there are few women currently randomized in some racial/ethnic categories, we note that the estimated cumulative yield from SV1 varies from 61% among Asian/Pacific Islanders to 71% among Native Americans. Among those categories with adequate numbers to provide stable estimates, however, the cumulative yields range only from 66% to 69%. Yields from SV0 are more variable but it is not possible to determine whether this is actually variation in eligibility and willingness to participate or an artifact of the missing data on ineligibles that varies greatly by CC and hence by race/ethnicity. There is some evidence of a lower yield in older women; among women over the age of 70 attending SV1, 65% would be randomized whereas among women younger than 70, the yield is estimated to be near 70%. A similar trend is seen in the SV0 yields.

Using these yield estimates, the projected number of visits required for CT enrollment alone in a steady state recruitment period of 36 months would be: 62 SV1s per month beginning in the second month of recruitment; 50 SV2s per month beginning in the third month of recruitment; and 47 SV3s per month beginning in the fourth month of recruitment. Compared to these revised projections, the overall study performance for screening during the period September 1, 1993 to August 31, 1994 is: SV1-112%; SV2-87.7%, and SV3-74.9%.

The expected number of OS enrollments from this plan would be 603 per CC (18 per month over 33 months, assuming 95% of CT ineligibles enroll in OS). To achieve the OS goal of 2,200 participants per CC in 36 months, each CC needs to enroll 62 OS participants per month. The number of SV1s needed for joint CT and OS recruitment is approximately 108 per month (again assuming a 95% enrollment rate of OS eligible women).

Individual VCC performance is summarized in *Tables 2.6*. through 2.9. - Clinical Center Ranking by Screening Visit Count (SV0-SV3). These reports show the ranking of CCs by total number of screening visits conducted within each type (SV0, SV1, SV2, SV3). Since most women who are ineligible for CT are identified at SV0 and data from these women are often not entered, the number of women contacted for SV0 activities is thought to be

substantially underestimated by this report. The values shown here should be interpreted as lower bounds on the number of women undergoing prescreening activities. The level of SV1, SV2 and SV3 activities are shown both to rank VCCs and to compare their cumulative activity with that projected from revised yield estimates.

There is considerable variability in the number of screening activities conducted among VCCs. The variability in the number of SV1s is especially large, reflecting a combination of startup delays, variation in CT eligibility, and data entry practices. Using the revised projections calculated above for CT recruitment only, 12 VCCs would surpass the cumulative SV1 goal of 682, two VCCs would surpass the cumulative SV2 goal of 500, and three VCCs would have 90% or more of the SV3 goal of 423.

2.4. Randomization and Enrollment

Figure 2.2. - Projected and Actual HRT and DM Randomizations shows the projected and actual number of women randomized into HRT and DM by month. As noted in the screening activities, the first four months of study operations showed much less activity than expected. Not until March, 1994, were significant numbers of women randomized at most sites. Since that time, however, considerable progress has been made to meet the accrual goals.

Table 2.10. - Randomization Activity by Study Component and Month shows that 1,447 women have been randomized to HRT. This represents 60% of the cumulative study-wide goal. In the most recent month of recruitment (August 1994) 260 women were randomized (97% of monthly goal). To meet cumulative goals for HRT within six months (by March, 1995), VCCs must randomize an average of 433 women (27 per VCC) per month or 160% of the monthly goal. A randomization rate of 130% of goal would result in our meeting cumulative VCC goals by September 1995.

Randomizations into DM are 3,665 women (79% of the cumulative goal to date). In August, the total number randomized was 646 or 125% of the study-wide monthly goal. With an average monthly recruitment of 132% of monthly goal (686 for all VCCs or 43 per VCC per month), the cumulative goal for DM would be reached in six months. At the average randomization rate observed over the last four months (616/month) we would reach cumulative goals by July 1995 (10 months).

The number of women currently participating in both HRT and DM is 616 or 13.7% of the total CT enrollment of 4,496 women. The CT sample size estimates of 63,000 assume an overlap of 15.8%. This lower than projected overlap probably results from the lag in HRT randomizations.

Table 2.11. - Clinical Center Randomization Activity shows the cumulative and most recent month's randomizations into each study component by CC, with CC ranking by the total number of women randomized. One VCC (Iowa) has randomized 162 women into HRT, achieving 107% of their cumulative goal. In August, five VCCs randomized more than 100% of their monthly HRT goal. Fourteen VCCs randomized more than 100% of their monthly DM goal in August and two VCCs (Minneapolis and Seattle) have randomized 107% of their cumulative DM goals; these same CCs have exceeded their monthly goals for six consecutive months.

We note considerable variation among VCCs in the overlap between CT components (from 7% to 25%).

Since no CT participant has yet reached the time for her annual visit, there have been no randomizations to CaD. It is expected that CaD medications will be available in December 1994. Randomizations into CaD should begin at that time.

No women have been enrolled into OS pending OMB and IRB approvals.

2.5. Exclusions

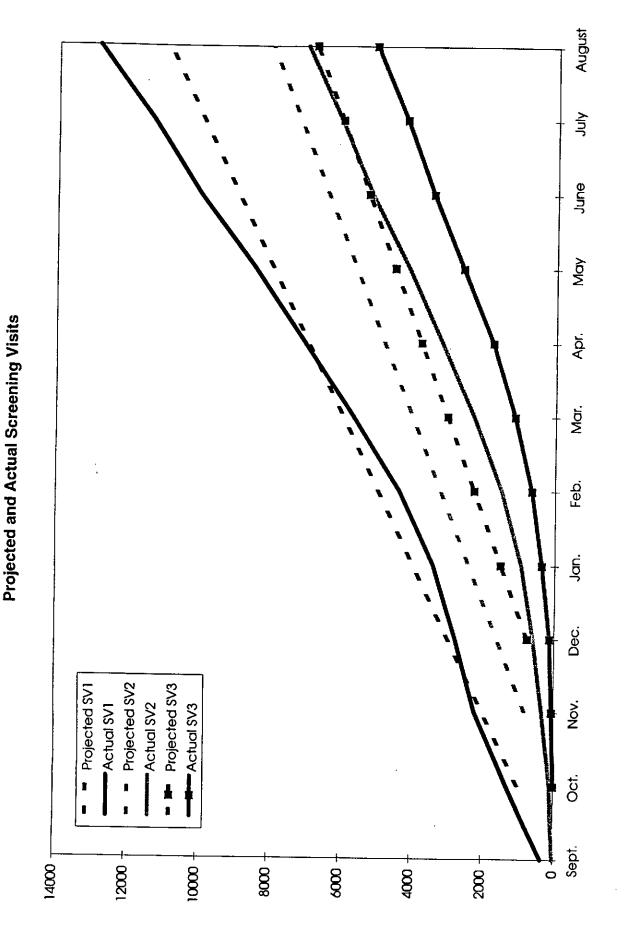
Available data on reasons for CT exclusions can be given only a loose interpretation because of missing data on ineligibles.

During the prescreening activities of SV0, the primary reason for exclusion for HRT is lack of interest. For HRT, the most prevalent exclusion criteria are those related to interest in HRT willingness to be randomized. During the Eligibility Screen (Form 2/3) conducted at SV0, only 27% of women indicated that they are interested in the hormone study. Among women with uteri (59%), 26% were interested, and among women currently on hormones (40%), 24% were interested. Interest is higher in minority women (41% in Hispanic and 31% in African/American) than in Whites (26%). The primary reason for excluding women from DM prior to SV1 is dietary fat intake. Using the cutpoint of 32%, approximately 50% of women are being excluded from DM.

For women attending an SV1, the primary exclusion is based on lack of interest (consent). Table 2.12. - Reasons for Refusing/Revoking Consent by Study Component 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. Overall, 85% of women asked to sign the screening consent have agreed to do so; 37% of women offered HRT participation and 82% of women offered DM participation have signed the component-specific consents.

Among those women who attend a clinic visit but do not consent to screening procedures, commonly reported reasons for not participating include: study limitations (wanting to participate in one or more of the active interventions, 12.8%); personal issues (12.9%); and study contacts and travel issues (over 9% each). For HRT the primary reason was study limitations (34.6%), with worries about symptoms, procedures or risks (18.6%), and "other" (21%) representing a large proportion of the stated reasons. For DM, required study contacts, personal issues, other, and no stated reason given by 18%, 16%, 25% and 15% of the women, respectively.

Figure 2.1



Data as of August 31, 1994

Data as of August 31, 1994

Figure 2.2

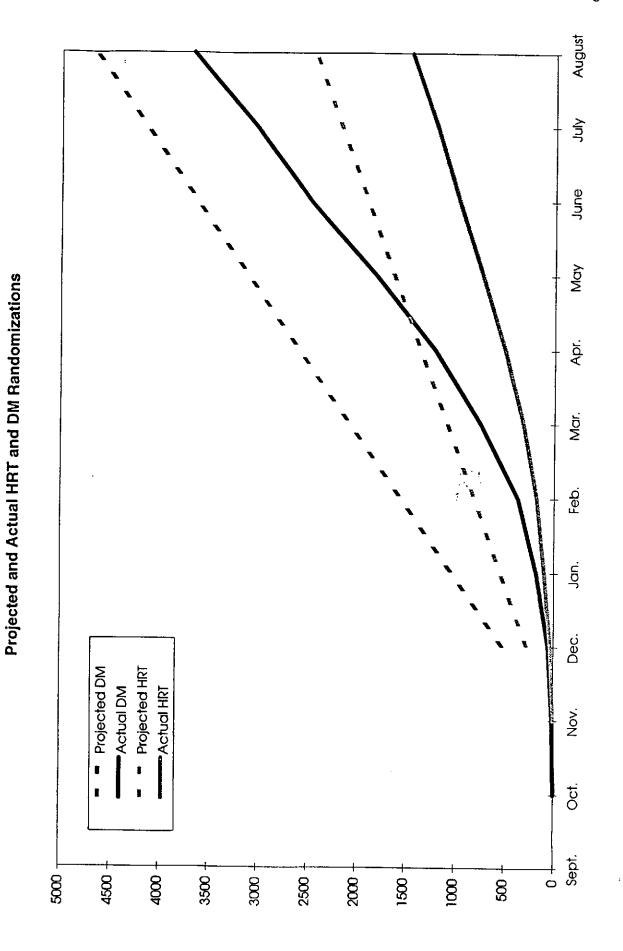


Table 2.1 Cumulative Recruitment Activity Summary Date: September 1, 1993 - August 30, 1994

				New Ar	New Articles or Reports	Reports	Ann	Public Service Announcements	ce ents	Ğ	Presentations	Ø	
		Letters & Brochures	Repeat Letters & Brochures	In Print Media	On IV	On Radio	In Print Media	On IV	On Radio*	To Older Women	To MDs & Health Profes-	of Officer	Other
Vanguard Clinical Centers													
University of Alabama	# of Events	126685	2000	9	9	က	0	0	0	27	8	7	
Birmingham	# of Responses	2716	0	197	62	15	0	0	7 4	210	17	5 C	
University of Arizona	# of Events	34625	1876	52	34	24	-	2	-	115	25	3 3	
Tucson/Phoenix	# of Responses	1536	178	1058	335	48	æ	7	0	220	27	2	573
Bowman Gray School of Med.	# of Events	22345	820	7	4	2	0	-	0	5	٥	6	3
Winston-Salem	# of Responses	1460	400	1031	300	4	0	හි	0	- 82	0	C	8
Brigham and Women's Hosp.	# of Events	18263	0	14	က	61	0	0	2	2	40	<u> </u>	2
Boston	# of Responses	4180	0	0	0	0	0	0	0	0	0	· c	125
University of California, Davis	# of Events	67343	370	19	4	-	9	0	0	14	0 8	4	
Davis	# of Responses	3648	155	242	94	0	119	0	0	55	Ċ	7	Ċ
Univ. of Calif., San Diego	# of Events	31789	49	13	12	6	-	-	5	SS	23	Ę	
La Jolla/Chula Vista	# of Responses	1223	0	410	599	7	Ŋ	0	2	87	=	, r	27
Emory Univ. School of Med.	# of Events	18950	0	8	1	0	0	0	0	59	· 60	5 6	i
Atlanta	# of Responses	2855	0	272	237	0	-0	0	0	167	· ~	7	
F. Hutchinson Cancer Res. Ctr.	# of Events	45107	0	15	4	4	0	0	0	6	1 47	- c	
Seattle	# of Responses	6121	0	75	0	Ö	0	0	0	0	-	· ·	Ę
	# of Events	88289	0	47	9	4	0	0	0	-	2	2	?
lowa City/Bettendorf	# of Responses	3859	0	220	0	0	0	0	0	0	ō	O	0

Table 2.1 Cumulative Recruitment Activity Summary Date: September 1, 1993 - August 30, 1994

			1	New Ar	New Articles or Reports	eports	Ank Ank	Public Service Announcements	e surts	Pr	Presentations	v	
		Letters & Brochures	Repeat Letters & Brochures	In Print Media	On IV	On Radio	In Print Media	On IV*	On Radio•	To Older Women	To MDs & Health Profes- slonals	To Officer	Other
Vanguard Clinical Centers													
Univ. of Med. & Dent. of N.J. # of Events	vents	43061	6493	∞	-	-	0	0	0	-		0	
Newark # of Res	# of Responses	761	0	219	3	7	0	0	0	2	0	O	0
Memorial Hospital of R. I. # of Events	vents	15880	0	53	21	12	0	8	0	28	11	19	
Pawtucket # of Res	# of Responses	1425	0	38	7	35	0	J	0	34	2	8	529
University of Minnesota # of Events	/ents	17129	0	0	0	0	0	0	0	0	0	0	
Minneapolis # of Res	# of Responses	3194	0	0	0	0	0	0	0	0	0	0	0
State University of N.Y. # of Events	/ents	63487	0	61	5	4	0	_	9	18	6	12	
Buffalo # of Res	# of Responses	1775	0	8	220	35	0	4	18	153	4	16	243
Northwestern University # of Events	/ents	75218	300	01	က	2	0	4	4	7	6	7	
Chicago/Evanston # of Res	# of Responses	4466	0	0	134	0	0	0	0	43	9	9	810
University of Pittsburgh # of Events	/ents	85921	11035	16	9	0	4	0	0	6	3	3	
Pittsburgh # of Res	# of Responses	2845	76	92	110	O	0	0	0	3	9	13	0
University of Tennessee # of Events	/ents	64239	0	6	2	7	0	က	0	œ	4	4	
Memphis # of Res	# of Responses	1948	0	95	41	13	2	5	2	0	0	0	8
GRAND TOTALS: # of Events	ents	798630	22973	294	121	68	12	8	20	346	163	141	
# of Res	# of Responses	44012	830	4610	2142	164	134	62	38	992	74	257	2488

Recruitment Yield by Stage Table 2.2

						Number	Number Required
				Cum Yi	Cum Yield from	for Recru	for Recruitment Into
Stage	State	N	%	SV0	SV1	CT only	CTTOS
SVO	Entering Stage	27742	100.00%				
	Exclusions	8225	29.65%				
	Yield of Stage	19517	70.35%	70.35%		`	
	Pending [1]	9150	46.88%				
SV1	Entering Stage	12252	100.00%			62/month	108/month
	Exclusions	2357	19.24%				
	Yield of Stage	9895	80.76%	56.82%	80.76%		· · · · · · ·
	Pending	3099	31.32%				
SV2	Entering Stage	9829	100.00%			50/month	50/month
	Exclusions	382	5.63%				
	Yield of Stage	6404	94.37%	53.62%	76.22%		
	Pending	1491	23.28%	_	-		
SV3	Entering Stage	4935	100.00%			47/month	47/month
	Exclusions	152	3.08%				
	Yield of Stage	4783	96.92%	51.97%	73.87%		
	Pending	287	%00.9	-		-	
	Randomizations	4496	94.00%	48.85%	69.44%	43/month	43/month
	OS Enrollments						62/month

[1] Pending is defined as women still eligible based on current data who have not proceeded to next stage. Percent pending is percent of yield of stage.

Table 2.3 Clinical Center Specific Recruitment Yields

		OAS.	SV1	SV2	SV3	Rand	Randomized	Cumulative
Clinical Center	z	Yield	Yield	Yield	Yield	z	Yield	Yield of SV1
Atlanta	2221	61.28%	%09:26	96.76%	96.31%	206	98.56%	87.81%
Birmingham	2263	78.88%	89.88%	96.87%	98.99%	283	96.59%	83.25%
Bowman	985	87.23%	80.77%	91.76%	96.13%	277	92.95%	66.22%
Brigham	2135	66.18%	93.86%	97.38%	98.44%	312	98.73%	88.83%
Buffalo	1390	54.18%	91.73%	96.08%	98.26%	278	98.58%	85.37%
Chicago	1557	78.89%	74.52%	94.46%	94.78%	229	97.03%	64.74%
lowa City	3477	45.75%	85.82%	89.21%	93.35%	305	98.71%	70.55%
LaJolla	1001	%09.66	100.00%	99.32%	100.00%	272	84.74%	84.16%
Memphis	1419	91.25%	89.05%	98.33%	99:20%	338	91.11%	79.14%
Minneapolis	2299	79.59%	70.91%	91.33%	95.19%	372	98.94%	%66.09
Newark	815	99.75%	44.61%	93.39%	96.59%	196	69.26%	27.87%
Pawtucket	1091	60.55%	92.49%	92.54%	95.25%	330	96.77%	78.89%
Pittsburgh	777	99.35%	77.79%	94.11%	96.78%	280	93.02%	65.91%
Seattle	2762	52.77%	%69'92	95.46%	95.60%	359	97.29%	68.09%
Tucson	1528	76.79%	76.65%	82.54%	96.97%	180	93.75%	57.52%
UCDavis	2115	75.64%	87.33%	98.49%	99.31%	279	97.55%	83.33%

Table 2.4 Race and Ethnicity Specific Recruitment Yields by Stage

			Native Ame	American	L		Asian/Pacific Islander	sific Islan	nder	8	Black/African Americans	an Ame	icane
ا				Cum Yi	eld from			Cum Y	Cum Yield from			<u>۲</u>	Cim Vield from
Stage	State	z	%	SVO	SV0 SV1	2	%	SV0	SV1	z	%	S S	
045	Entering Stage	97	100.00%			210	100.00%			2007	100.00%		5
	Exclusions	<u>၉</u>	30.93%			22	27.14%			370	18.44%		_
	Yield of Stage		%20.69	69.07%		153	72.86%	72.86%		1637	81.56%	81.56%	
	Pending [1]	31	46.27%	1		80	52.29%			901	55.04%		
SV1	Entering Stage	39	100.00%			79	100.00%			833	100.00%		
	Exclusions	^	17.95%			18	22.78%		•	157	18.85%		_
	Yield of Stage	35	82.05%	56.67%	82.05%	61	77.22%	56.26%	77.22%	929	81.15%	66.19%	81.15%
	Pending	12	37.50%			19	31.15%			215	31.80%		
SV2	Entering Stage	20	100.00%			42	100.00%			461	100.00%		
	Exclusions	-	2.00%			7	4.76%			23	4.99%		
	Yield of Stage	9	95.00%	53.84%	77.95%	40	95.24%	53.58%	73.54%	438	95.01%	62.89%	77.10%
	Pending	_	36.84%		<u> </u>	0	25.00%			132	30.14%		
SV3	Entering Stage	12	100.00%			99	100.00%			306	100.00%		
	Exclusions	0	0.00%			ო	10.00%	-		12	3.92%	•	
	Yield of Stage	12	100.00%	53.84%	77.95%	27	%00.06	48.22%	66.18%	294	96.08%	60.42%	74.08%
	Pending	-	8.33%	<u> </u>		0	7.41%	*-	~	 8	10.20%	_	
	Randomizations	Ξ	91.67%	49.35%	71.45%	25	92.59%	44.65%	61.28%	264	89.80%	54.26%	66.52%

[1] Pending is defined as women still eligible based on current data who have not proceeded to next stage. Percent pending is percent of yield of stage.

Table 2.4 Race and Ethnicity Specific Recruitment Yields by Stage

			His	Hispanics			M	Whites			Other E	Other Ethnicities	Si
				Cum Yi	n Yield from			Cum Yi	Cum Yield from			Cum Y	Cum Yield from
Stage	State	z	%	SV0	SV1	z	%	SVO	SV1	z	%	SVO	SV1
0AS	Entering Stage	557	100.00%			24233	100.00%			249	100.00%		
	Exclusions	92	11.67%			7559	31.19%		. .	73	29.32%		
	Yield of Stage	492	88.33%	88.33%		16674	68.81%	68.81%		176	70.68%	70.68%	
	Pending	127	25.81%			7646	45.86%			88	20.00%		
SV1	Entering Stage	384	100.00%			10629	100.00%			102	100.00%		
-	Exclusions	42	10.94%			2088	19.64%			15	14.71%		
	Yield of Stage	342	89.06%	78.67%	89.06%	8541	80.36%	55.29%	80.36%	87	85.29%	60.29%	85.29%
	Pending	88	25.73%	·		2595	30.38%		-	30	34.48%		
SV2	Entering Stage	253	100.00%			5937	100.00%			26	100.00%		
	Exclusions	22	8.70%	-		330	5.56%		77.	ო	5.36%	_	
	Yield of Stage	231	91.30%	71.83%	81.32%	2607	94.44%	52.22%	75.89%	53	94.64%	27.06%	80.72%
	Pending	29	29.00%			1252	22.33%			13	24.53%		ŧ
SV3	Entering Stage	165	100.00%			4375	100.00%			14	100.00%		
	Exclusions	ო	1.82%			131	2.99%			ო	7.32%		
	Yield of Stage	162	98.18%	70.52%	79.84%	4244	97.01%	20.65%	73.62%	88	92.68%	52.88%	74.82%
	Pending	25	15.43%	•		224	5.28%	••		4	10.53%		
	Randomizations	137	84.57%	59.64%	67.52%	4020	94.72%	47.98%	69.73%	34	89.47%	47.32%	66.94%

Table 2.5
Age Specific Recruitment Yields by Stage

			Age	Ages 50-54			Ages	Ages 55-59			Ages	Ages 60-69			Ages	Ages 70-79	
				Cum Y	Cum Yield from			Cum Yi	Cum Yield from			Cum Yie	Cum Yield from			Cum Yi	eld from
Stage	_	z	%		SV1	Z	%	SV0	SV1	z	%	SV0	SV1	z	%	SVO	SV0 SV1
0 2 8	Entering Stage	5556	100.00%			2993	100.00%			10798	100.00%			4983	100.00%		
	Exclusions	1546	27.83%			1568	26.16%			3215	29.77%	·		1764	35.40%		_
	Yield of Stage	4020	72.35%	72.35%		4425	73.84%	73.84%		7583	70.23%	70.23%		3219	64.60%	64.60%	
	Pending [1]	1966	48.91%			2038	46.06%			3427	45.19%			1482	46.04%	<u>.</u>	
SV1	Entering Stage	2403	2403 100.00%			2847	100.00%			4794	100.00%			2016	100.00%		
	Exclusions	471	19.60%			514	18.05%			887	18.50%			434	21.53%		
	Yield of Stage	1932	80.40%	58.17%	80.40%	2333	81.95%	60.51%	81.95%	3907	81.50%	57.23%	81.50%	1582	78.47%	20.69%	78.47%
 -	Pending	536	27.74%			642	27.52%			1223	31.30%			266	35.78%		
SV2	Entering Stage	1393	1393 100.00%			1689	100.00%			2678	100.00%			1016	100.00%		
	Exclusions	62	4.45%			88	5.21%			159	5.94%			72	7.09%	•	
	Yield of Stage	1331	95.55%	25.58%	76.82%	1601	94.79%	57.35%	%89'.22	2519	94.06%	53.83%	76.66%	944	92.91%	47.10%	72.91%
	Pending	294	22.09%			321	20.05%			570	22.63%			297	31.46%		-
SV3	Entering Stage	1043	1043 100.00%			1283	100.00%			1960	1960 100.00%			649	100.00%		
	Exclusions	8	3.07%			34	2.65%			22	2.81%			છ	4.78%		
	Yield of Stage	1011	96.93%	53.88%	74.46%	1249	97.35%	55.83%	75.62%	1905	97.19%	52.32%	74.51%	618	95.22%	44.85%	69.43%
	Pending	68	6.73%			74	2.68%	٠		113	2.93%	1		35	5.66%		
	Randomized	943	93.27%	50.25%	69.46%	1178	94.32%	52.66%	71.32%	1792	94.07%	49.22%	%60.02	583	94.34%	42.31%	65.50%

[1] Pending is defined as women still eligible based on current data who have not proceeded to next stage. Percent pending is percent of yield of stage.

Clinical Center Ranking by Screening Visit Count

Clinic SVO Ranking

		Organization	022
Rank	Ð	Name	Count
} i			
-	IOWACITY	Preventive Intervention Center	ı
(7)	SEATTLE	WHI Seattle Clinical Center	7 7 7 7
m	MINNEAPO	Berman Center for Clinical Research	70/7
4	BIRMING	UAB Preventive Medicine	7 7 7 7
Ŋ	ATLANTA	Emory University Women's Month twitter	5077
9	BRIGHAM	Bricham and Women's Housital	1777
7	21/140711	Conoral Tatourn Webin	2135
٠.	CTAUTO	deneral internal medicine	2115
10	CHICAGO	WHI Clinic Northwestern Univ Med School	1557
ט	TUCSON	Arizona Disease Prevention Center	1500
10	MEMPHIS	UT Prevention Center Memohis	077
11	RIFFALO	WNV Varginard Clinian Content	1419
C		min vanguata cituteat center	1390
77	PAWIOCK	Women's Health Initiative	1001
13	LAJOLLA	UCSD's Women's Health Initiative vnc	1001
14	BOWMAN	Women's Health Initiative of the mails	7007
1 4	NICE AND A	wears a meatem interactive of the Triad	385
η : Τ	NEWAKK	Newark WHI Center	815
91	PITTSBUR	Pittsburgh WHI Center	777
	•		
SVO Totals	otals		27832

09/30/94 08:17 Data as of: 08/31/94

Clinic SV1 Ranking

089 Current SV1 Goal (62 per month since October 01, 1993):

Rank	Clinic	Organization Name	SV1 Count	SV1 Goal	SV1 Percent of Goal
1	PITTSBUR	Pittsburgh WHI Center	1353	680	100 001
Cŧ	TUCSON	Arizona Disease Prevention Center	1010	000	70.00T
m	MEMPHIS	UT Prevention Center, Memohis	1004	089	147 65
4	CHICAGO	WHI Clinic Northwestern Univ Med School	979	680	143 97
ហ	NEWARK	Newark WHI Center	965	089	141 91
9	MINNEAPO	Berman Center for Clinical Research	963	089	141.62
7	SEATTLE	WHI Seattle Clinical Center	814	680	119 71
∞	UCDAVIS	General Internal Medicine	767	680	112.75
σ	BIRMING	UAB Preventive Medicine	741	089	108 97
10	BOWMAN	Women's Health Initiative of the Triad	729	680	107.21
11	IOWACITY	Preventive Intervention Center	728	680	107.06
12	LAJOLLA	UCSD's Women's Health Initiative VCC	726	680	106.76
13	BUFFALO	WNY Vanguard Clinical Center	568	680	20 CC
14	BRIGHAM	Brigham and Women's Hospital	560	680	82.35
15	PAWTUCK	Women's Health Initiative	501	680	73.68
16	ATLANTA	Emory University Women's Health Initiati	450	680	66.18
SV1 1	SV1 Totals		12950	10000	
1			00071	10880	81.811

09/30/94 08:17 Data as of: 08/31/94

Clinical Center Ranking by Screening Visit Count

Table 2.8

Clinic SV2 Ranking

Current SV2 Goal (50 per month since November 01, 1993):

498

Rank	Clinic	Organization Name	SV2	SV2	SV2 Percent
1111				1 2	OI GOBI
+	PITTSRIB	Dittshurgh Will Conton		1	
ŗ	C TOTAL CO	TOTAL TIPE TOTAL TELES	515	498	103.41
7 (SEAT LIE	WHI Seattle Clinical Center	512	407	100 001
m	MINNEAPO	Berman Center for Clinical Describ	1 6	000	10.201
4	TOWNCT	DESCRIPTION THE CLIMATE AND ADDRESS OF THE COLUMN THE C	498	498	100.00
1 11	MEMBERS	THE ACTION THE THE TON CONTEST	489	498	98,19
ን ነ	MEMPHIS	UT Prevention Center, Memphis	486	498	07 50
٥	TUCSON	Arizona Disease Prevention Center		1 7	77.77
7	F.A.TOT.T.A	HOGD'S Women's Health Thinks.	777	47.00	89.16
- a		ocar a women a nearth initiative VCC	442	498	88.76
0 (BOWMAIN	Women's Health Initiative of the Triad	441	807	900
עכ	PAWTUCK	Women's Health Initiative	1 -	7	00.00
10	BITFFALO	MAN When the state of the state	44T	498	88.55
) e	CMATTER	min vanguara cinical center	423	498	84.94
77	DITENTO	UAB Freventive Medicine	416	490	1 CO
12	UCDAVIS	General Internal Madicine) L	000	83.33
13	NEWARK	Nowart full Coltain	415	498	83,33
7 (TO TOTAL	Mewain will celler	389	498	78.11
# I	DRIGHAM	Brigham and Women's Hospital	385	498	12.77
15	CHICAGO	WHT Clinic Northwoother man and a) () ·	TC . / /
16	A-TT. ANTTA	The Catalac Not climes cettle only med school	376	498	75.50
+	WI NUTTE	EMMOLY UNIVERSITY WOMEN'S HEALth Initiati	345	498	69.28
					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SVZ TOTALS	OCALB		7017	1968	88.06

09/30/94 08:17 Data as of: 08/31/94

Clinical Center Ranking by Screening Visit Count

Table 2.9

Clinic SV3 Ranking

Current SV3 Goal (47 per month since December 01, 1993):

421

Rank	Clinic	Organization Name	SV3 Count	SV3 Goal	SV3 Percent of Goal
7	MINNEAPO	Berman Center for Climical Bosconic	1 (1 1	
,	T T T T T T T T T T T T T T T T T T T	will gard celler for citized Research	400	421	95.01
9 (SEALTE	WHI Seattle Clinical Center	387	421	91 92
m	MEMPHIS	UT Prevention Center, Memohis	000	1 -	77.76
4	PAWTUCK	Women's Health Initiating	ים ים ים ים	421	90.26
ľ	TOWACTHY	Decision the contract of	365	421	86.70
) V	1110111	revenitive incervention Center	333	421	79.10
Pί	TWO CETT	UCSD's Women's Health Initiative VCC	329	421	71 97
7	BOWMAN		200	1 5	1000
00	BRIGHAM		0.20	T 7 F	7/ - 9/
0	directed	Pittill all Wollell'S HOSPICAL	323	421	76.72
,	FILISBUR	Fictsburgh WHI Center	320	421	76 01
7	NEWARK	Newark WHI Center	317	107	ייני פרי שלי
11	BUFFALO	WNV Vanculard Clinical Context	100	177	13.30
1.	DITOMINIC	The Property Called Celled	307	421	72.92
4 6	DITITION	Und Frevencive Medicine	302	421	71.73
ή·	UCDAVIS	General Internal Medicine	293	421	69 60
14	CHICAGO	WHI Clinic Northwestern Univ Med School	25.2	10.	
7	TITIOSON	Dried Dischart Branch Comment Comment	707	T 7 %	38.80
71	A TO COL	ALLEGUIA DISEASE FIEVENCION CENTER	223	421	52.97
P	ALMMIA	Emory University Women's Health Initiati	218	421	51.78
	•			1	
EVS T	SV3 Totals		5072	6736	75.30

DIET MODIFICATION RANDOMIZATIONS

HORMONE REPLACEMENT THERAPY RANDOMIZATIONS

Data As Of: 08/31/94 09/30/94 07:17

TOTAL CLINICAL TRIAL RANDOMIZATIONS

	Overlap 0.00% 22.22% 21.13% 16.46% 14.19% 14.19% 14.57% 13.65% 13.65% 13.77% 13.77%
	e l
	25.00% 25.00% 20.97% 20.97% 11.91% 11.91% 11.91% 11.91% 11.91% 11.91% 11.91% 11.91% 11.91% 11.91% 11.91% 11.91% 11.91% 11.91%
	HRT/DM Cum. # % Overlap % Cum. Overlap 0 0.00% 0.00% 2 25.00% 22.22% 15 20.97% 21.13% 39 14.46% 16.46% 67 11.91% 14.19% 132 14.41% 14.30% 216 15.00% 13.55% 13.77% 616 13.39% 13.77%
	HRT/DM # 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	CT Cum. • 10 10 10 10 10 10 10 10 10 10 10 10 10
	CT # 10 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
517.3	10.00% 0.00% 0.00% 0.00% 10.24
Goal per Month = 517.3	Cum. Goal 0.0 0.0 0.0 517.3 1034.7 1552.0 2586.7 3104.0 3621.3 4138.7
Goal	Cum. #
	Number
269.6	18.18 12.24 12.24 12.24 14.76 55.04 55.04 59.648
Goal per Month = 269.6	Cum. Goal 0.0 0.0 0.0 269.6 539.2 808.7 1078.3 1347.9 1617.5 1887.0 2156.6
Goal p	Cum. # 0 0 0 3 3 3 3 3 3 3 3 4 9 8 7 2 4 9 8 7 2 4 9 6 4 1187 1447
	Number 0 0 3 3 3 65 77 137 137 226 226 223
	Year Month 1993 September October November December 1994 January February March April Nay June July August

Randomizations For Month: AUG 94

Data As Of: 08/31/94 09/30/94 07:15

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	HOROMO (Month) (Cumula	NE REPLACEMENT SANDOMIZATIONS Y Goal Per Clin	ECHOMONE REPLACEMENT THERAPY RANDOMIZATIONS [Monthly Goal Per Clinic = 16.8] [Cumulative Monthly Goal = 151.6)	DI R (Monthly (Cumulat	DIET MODIFICATION RANDOMIZATIONS 19 Goal Per Clini, ative Monthly Goa	DIET MODIFICATION RANDCHIZATIONS (Monthly Goal Per Clinic = 32.3) (Cumulative Monthly Goal = 291.0)			TOT	Total Clinical Trial Randomizations	7	
Rank Clinic	Number	Com.	% of Cum. Goal	Munber	Cum.	% of Cum. Goal	*	# Cm.	HRT/DM #	HRT/DM Cum. #	% Overlap	% Cum. Overlap
1 MINNEAPO 2 SEATTLE	13	104	68.59%	42	311	106.87%	49	372	9	43	12.24%	11.56%
3 MEMPHIS	13	135	80 TO 88	÷ 5	350	106.878	57	359	~	31	3.51%	8.648
4 PAWTUCK	15	124	81.77	2.5	25.0	801.70 804.70	9 .	338	S.	57	10.42%	16.86%
5 BRIGHAM	6	62	40.89	37	275	00 o	- ;	330	ın ·	46	16.138	13.948
6 IOWACITY	35	162	106.838	47	208	71 428	9 -	312	₹;	25	9.52%	8.01%
7 BIRMING	30	116	76.50%	55	238	96C	1 0	600	7 :	50	15.49	21.318
8 PITTSBUR	11	120	79.148	17	204	, , , , , , , , , , , , , , , , , , ,	5	707	0,	7	23.19%	25.098
9 UCDAVIS	18	69	45.50%	20	234	20 E C C C	* 5	007	7 1	7	16.678	15.71%
10 BUFFALO	11	72	47.48%	54	233	B11:00	10	677		24	11.48%	8.09.8
11 BOWMAN	14	90	59,358	4.	227	# FC # FC	70	8/7	♥ (7.69%	11.878
12 LAJOLEA	119	96	63.31%	36	226	77.016	# r	717	'n	40	9.268	14.448
13 CHICAGO	6	45	29.68%		200	# CC 04	7 .	7/7	10	20	23.268	18.384
14 ATLANTA	28	9	39.57	42	175	\$0.00 40.00	9 L	677	♥ ;	16	9.30%	9.66.9
15 NEWARK	6	63	41.55	45	157	6 4 0 C C	0 c	206	71	53	25.00%	14.08%
16 TUCSON	14	20	32,97%	. 4	0 7 1	P10.00	2	961	o	24	10.00%	12.248
		-				BD6.00	4	180	iń	18	10.20%	10.00\$
Totals	260	1447	59.64%	646	3665	78.72%	799	4496	101	616	13.39%	13.70%

Table 2.12

Reasons for Refusing/Revoking Consent By Study Component

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Refused/Revoked Percent Count Refused/Revoked 20 1.70 208 17.72 156 13.29 0.00 289 24.62 190 26 2.21 181 26 10.73 5 0.43
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Refused/Revoked Count Refused
Consent———————————————————————————————————
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Revoked	302 184 305
% ! !	12.44 59.97 13.15
Refused	1683 3961 869
% ! ! %	85.22 36.97 82.05
Signed	11533 2442 5423
Forms	13534 6605 6609
Consent Name	SCREENING CONSENT HRT CONSENT DMT CONSENT

3. Baseline Characteristics

3.1. Design Parameters and Study Goals

Age and, for HRT, hysterectomy status are important design factors in determining the required sample size for the CT. Table 3.1. - Randomization/Enrollment Summary by Study Component, Age and Hysterectomy Status displays the distribution of age and hysterectomy status by study component. Note that the prescribed age distribution for each component is 10%, 15%, 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 is to be limited to 30%.

The study has a clear deficit in the oldest age category; only 13.5% of HRT participants and 12.5% of DM participants are 70-79 years of age. With respect to uterine status, 42% of women randomized to HRT have had hysterectomies. While there is some variability in the degree, the trend is uniform across VCCs. At the August 2, 1994 Executive Committee meeting, VCCs were asked to begin targeting older women through preferential recruitment and screening of these women.

Race and ethnicity goals have been defined to assure the study's ability to address particular questions in minority populations. The study-wide goal is 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 Tuscon (Hispanic and Native American).

Race and ethnicity are determined by self-report on Form 2/3 - Eligibility Screen in accordance with the U.S. Census defined categories. Table 3.2. - Distribution of Race and Ethnicity Among Randomized/Enrolled Participants by Clinical Center presents the distribution of race and ethnicity among all women randomized or enrolled to WHI by CC and funding category (Pool 1 or 2).

Among Pool 1 VCCs, 21% of currently recruited women are from racial or ethnic minorities, with most of these being either Hispanic (11.7%) or Black/African American (7.8%). Among Pool 2 VCCs, minority women represent 7.6% of the accrued population. To address the low representation of minority women, the Executive Committee in August 1994 formed a Minority Recruitment Task Force and charged it with identifying the barriers to and methods for enhancing minority recruitment.

3.2. Selected Baseline Predictors

To further characterize the recruited population, *Tables 3.3.-3.11. - Questionnaire Responses* by *Enrollment Status* present the distributions of selected baseline variables (race/ethnicity, marital status, income, education, ever smoker, alcohol, parity, age at first pregnancy, family

history of breast cancer) by study component. The exact wording of associated questions can be found by referring to the WHI form indicated at the bottom of each page.

Table 3.12. - Physical Measures by Enrollment Status presents distributions of weight, height, body mass index and blood pressure in randomized women.

WHIP0570 1.1

HRT Randomization Summary

09/30/94 08:18 Data as of: 08/31/94

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Study Component	Age Range		Randomized in August	Total Randomized	Age Distribution	Cum. Goal Through Aug.	Percent of Goal
HBT/Hvatovoctom				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			•
ייייי יול פרפו בררר	90-06 Km		17	66	16.3	74.2	133.46
	20-00 10-00	•	20	127	20.9	144 0	88.19
	69-09	_	57	286	47.0	327.3	87.39
	70-79	_	16	96	15.8	183.3	52.38
			:		1 1 1 1		1
	Subtotal	tal	110	809	100.0	728.7	83.43
HRT/Non-Hysterectomy	ectomy 50-54		24	114	4 4		i
				1,0	0.01	1/0.2	78.74
	69-09		2	7 7	45.6	340.4	63.17
	70-79		200	067	C. 0.4	763.6	51.07
	?		7	001	11.9	423.3	23.63
	Subtotal	(4)	150	1 6	1 6		1
		1	201	623	100.0	1697.5	49.43
	HRT TOTE	(11)	260				1
			7	\ 5 5 7		2426.2	59.64
DM Randomization Summary	On Burmary						
Study	Age	Ranc	Randomized	Total	or d		
Component	Range			Randomized	Dietribution	The contract of the contract o	rercent
• • • • • • • • • • • • • • • • • • • •		!			יייייייייייייייייייייייייייייייייייייי	intough And.	or Goal
ž	50-54		133	910	1 22	0 777	
	55-59		177	666	0.11	n	175.41
	69-09		240	1307	1.72	6.626	106,73
	70-79		9	101	1.65	2094.5	66.70
	2		2 1	9	12.5	1165.1	39.22
	DM Total	tal	646	1566			
		- - -	•		0.000	4656.0	78.72
Observational &	Observational Study Enrollment Summary	Summary					
		1					
		Enrollment	Cummulative	a)	Age		
Component Ra	Range	in August	Enrollment	t Distribution	tion		
05 50	50-54	0	l		0.0		
55	55-59	0			0.0		
09	69-09	0			0.0		
97	70-79	0		0	0.0		
Ė			-	1	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		
2	rotal	0		•	0.0		

Table 3.2
Distribution of Race and Ethnicity among
Randomized/Enrolled Participants by Clinical Center

Data As Of: 08/31/94

09/30/94 10:48

	Am. Indian/ Alaskan Native Rand/Enrollments Actual Actual	dian/ Nativa ollments Actual	Asian/Pacific Islander Rand/Enrollments Actual Actual 9	Neian/Pacific Islander Id/Enrollments Actual Actual	Black/ Amer Rand/Enr Actual	Black/African American Rand/Enrollments Actual Actual	Hispanic Rand/Enrollments Actual Actual	unic bliments Actual		Mbite Rand/Enrollments Actual Actual	Other Rand/Enrollments Actual Actual	Total Rand/Enroll Actual
Pool 1	1 1	-		-	1			` !	1	P (*	* !
ATLANTA	1	9,0	7	1.0	21	10.2	н	0.5	180	87.4	1 0.5	206
BIRMING	1	4.0	0	0.0	44	15.5	0	0.0	238	84.1	0.0	E 80 24
LAJOILA	-	v .0	e	1.1	ΙM	1.1	27	27.6	185	68.0	5 1.8	272
TUCSON	1	9.0	7	9.0	ស	2.8	34	18.9	138	76.7	1 0.6	180
Sub Total		0.4	1 10	9.0	73	7.8	110	11.7	741	78.7	T.0 T	941
Pool 2												
BOWMAN	1	0.4	0	0.0	31	11.2	8	0.7	242	87.4	1 0.4	277
BRIGHAM	•	0.0	8	9.0	16	5.1	m	1.0	288	92.6	2 0.6	311
BUFFALO	-	0.4	0	0.0	11	4.0	0	0.0	265	95.3	1 0.4	278
CHICAGO	0	0'0	m	1.3	17	7.4	м	1,3	205	89.5	1 0.4	229
IOWACITY	0	0.0	٥	0.0	8	0.7		0.3	302	0.66	0.0	305
MEMPHIS	0	0.0	0	0.0	43	12.8	1	0.3	290	86.6	1 0.3	335
MINNEAPO	7	0.3	Ħ	0.3	v	1.3	7	0.5	362	97.3	1 0.3	372
NEWARK	0	0.0	•	0.0	33	16.8	7	1.0	160	81.6	1 0.5	196
PAWTUCK	0	0.0	0	0.0	e	6.0	1	0,3	320	97.3	5 1.5	329
PITTSBUR	1	0.4	0	0.0	10	3.6	-4	0.4	266	95.0	2 0.7	280
SEATTLE	0	0.0	m	9.0	12	3.3	7	9.0	335	93.3	7 1.9	359
UCDAVIS	E.	1.1	10	3.6	60	2.9	ф	3.2	244	87.5	5 1.8	279
Sub Total	^	1	19	0.5	191	5.4	72	0.8	3279	92.4	27 0.8	3550
TOTAL	17	0.2	25	9.0	264	5.9	137	3.1	4020	89.5	34 0.8	4491

Table 3.3

Questionnaire Responses By Enrollment Status

HRT/DM Pot 0.2 0.3 6.8 88.0	100.0
HRT / DM / 1 2 2 4 4 2 2 6 5 4 2 8 6 4 2 8 6 4 2 8 6 6 8 6 6 8 6 6 6 6 6 6 6 6 6 6 6 6	616
PG C C C C C C C C C C C C C C C C C C C	100.0
001y 8 175 77 2744 255	3049
######################################	100.0
BRT Only 2 6 47 734 734 5 6	831
Question Response Response Meaning American Indian or Alaskan Native Asian or Pacific Islander Black or African-American Hispanic White Other Value not entered	
	Total
Short Verbiage Racial or ethnic group	

Questionnaire Fields Used On Report

Verbiage		Racial or ethnic group Racial or ethnic group
Version Field Order Ve		
		2 1
Form		7 7
Field Id	111111	1218 2532

09/30/94 11:57

Table 3.4 Questionnaire Responses By Enrollment Status

HRT DM Pct Only 3.5 134 17.6 418 15.8 373 61.3 2073 1.3 47 0.2 1	DM HRT Pct /DM 4.4 20 13.7 90 12.2 100 68.0 399 1.5 6 0.0 0
	DM DM DM Only Pct 134 4.4 4.4 4.4 4.4 4.4 12.2 2073 68.0 47 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
i .	ga kel -

Questionnaire Fields Used On Report

	25
	1
1	20
	1745

Table 3.5 Questionnaire Responses By Enrollment Status

09/30/94 12:11

Short Verbiage	Question Response	Response Meaning	HRT	HRT	DM Only	Pot	HRT /DM	HRT/DM Pct
Total family income	ı	Less than \$10.000	1 0 0	7 7		1 0	1 6	1 4
	2	\$10.000 to \$19.999	100	5.6	, o	, c	n (5.0
	~	\$20 000 to \$34 000	7 4 6		000	0.00	76	L4.3
) <	450,000 CO 404,337	777	79.6	189	22.2	182	29.2
	# L	435,000 TO 449,999	161	19.4	689	22.6	118	19.2
	ית	\$50,000 to \$74,999	135	16.2	608	19.9	115	18.7
	ا ع	\$75,000 to \$99,999	51	6.1	272	8.0	32	5.2
		\$100,000 to \$149,999	30	3.6	164	5.4	12	σ -
	ω,	\$150,000 or more	15	1.8	83	2.7	7	
	9	Don't know	19	2.3	69	2.2	0	. T
		Questionnaire not entered	7	0.2	+	0.0	0	0.0
		Value not entered	13	2.3	83	2.7	10	1.6
			1 1 4 1 1	1 1 1 1	1111	1 1 1 1	1 1 1 1	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
	TOCAT		831	100.0	3049	100.0	919	100.0

Questionnaire Fields Used On Report

Total family income
34
~
20
1755

Table 3.6

Questionnaire Responses By Enrollment Status

09/30/94 12:25

Short	Onestion	Response	į	;				
Verbiage	Response	Meaning	HRT Only	Pot	Only Only	Pot Tot	HRT / DM	HRT/DM Pct
Highest grade in school	1	Didn't so to school	1 7	1 4	l 1 1 1		 	1 1 1 1
	2	Grade achool (1-4 volum)	٠,	H.0	0	0.0	0	0.0
	· ~	Grade school (F.e. mark)	14	1.7	ιń	0.3	9	1.0
) -	Game bine altern (3-0 years)	16	1.9	24	8.0	13	2.1
	יטי	Source fill school (9-11 years)	42	5.1	69	2.3	33	5.4
	7 Y	High school diploma or G.E.D.	161	19.4	498	16.3	148	2.4.0
	20	Vocational or training school	96	11.6	273	0.6	75	12.5
	~ c		221	26.6	971	31.8	157	20 20 30 30 30 30 30 30 30 30 30 30 30 30 30
		College graduate or Baccalaureate	84	10.1	352	11.5	1 10 10	ο ο α
	ν .		98	10.3	362	11.9	55	0
	110		90	10.8	438	14.4	99	10.7
	41	Ductoral Degree	15	1.8	52	1.7	7	1.1
		Vuestionnaire not entered	7	0.5	~	0.0	0	0
		value not entered	m	0.4	4	0.1	н	0.2
	Total		100	1 0				1
			83T	700.0	3049	100.0	616	100.0

Questionnaire Fields Used On Report

r Verblage		in school
d Form Version Field Order		20
Version		1
Porm	1111	20
Field Id		1741

Table 3.7

Questionnaire Responses By Enrollment Status

09/30/94 01:56

HRT HRT DM DM HRT HRT/DM Only Pct Only Pct /DM Pct 421 50.7 1487 48.8 320 51.9 401 48.3 1533 50.3 291 47.2 7 0.8 23 0.8 3 0.5 2 0.2 6 0.2 2 0.3	100.0 3049 100.0 616
naire not entered	
Short Verbiage Response Meaning Smoked 100 cigarettes 1 Yes Value not	Total

Report
g
Used
Fields
Questionnaire

Verbiage		Smoked 100 cigarettes
Field Id Form Version Field Order Verbiage		8
Version	1 1 1 1 1	1
Porm	 - -	34
Field Id		2019

Table 3.8

Questionnaire Responses By Enrollment Status

09/30/94 01:30

12 alcoholic drinks ever
831 100.0 3049 100.0 616

Questionnaire Fields Used On Report

Verbiage		12 alcoholic drinks ever
ld Form Version Field Order Verbiage		28
Version	# 1 1 1 1	-
Form	1 1 1 1	34
Field Id		2039

Table 3.9 Questionnaire Responses by Enrollment Status

: 04	08/31/94
10	of:
/94	as
6/08/60	Data

Live births

Short Verbiage

	Response Range	HRT	HRT	MC	MO	HRT	HRT/DM	
1 1 1 1 1 1		ZTTO	ו גע	Only	Pot	ΣΩ/ 	Pot	
	None	17	2.0	59	1.9	11	α	
		68	8.2	282	9.5	45		
	9 (183	22.0	789	25.9	140	22.7	
	n ~	214	25.8	760	24.9	156	25.3	
	3 " ti	143	17.2	461	15.1	200	11.	
	O 4	99	7.9	188	6.2	200	11.0	
	ם ני	33	4.0	117		30	* 0 7	
		22	2.6	43	1.4	15	4.6	
	o of more	23	2.8	44	1.4	8		
	No value encered	62	7.5	306	10.0	49	0.0	
		1 1 1	1 1 1 1					
	TOTAL	831	100.0	3049	100.0	616	100	

Questionnaire Fields Used On Report

Verbiage		Live births
Field Order	1	12
Version	1 1 1 1 1	.
Form	1	31
Field Id		1775

Table 3.10

rollment Status

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2	
lire Responses	
Questionnaire	

09/30/94 08:16

Short Verbiage	Response Range	HRT Only	HRT	DM Only	DM	HRT /DM	HRT/DM Pct
Age first full-term pregnancy	20	115	13.8	367	12.0	116	100
	20-24	366	44.0	1341	44.0	268	43.6
	67-C7	193	23.5	722	23.7	132	21.4
	35.13	62	7.5	189	6.2	29	4.7
	40-44	07	1.5	47	-T	2	8.0
	No value entered	83	10.2	380	12.1	0 7	0.0
	F) 	1 0		3 !	, T T T T T T T T T T T T T T T T T T T
	Total	831	100.0	3049	100.0	919	100.0

Questionnaire Fields Used On Report

Verbiage		Age first full-term pregnancy
l Form Version Field Order Verbiage		10
Version		1
Form	1	31
Field Id		1773

09/30/94 01:03

Table 3.11 Questionnaire Responses By Enrollment Status

Only	15 2 510 16 3	0.7 51 1.7 12	0.5 14 0.5 3 51.7 1647 54.0 345	100.0 3049 100.0 616
Response Meaning No	Yes	Don't know	Value not entered	
Short Verbiage Response Meaning Female relatives breast cancer 0 No	1	6		Total

Questionnaire Fields Used On Report

Verbiage		Female relatives breast cancer
Field Id Form Version Field Order Verbiage		68
Version		-
Form	† 	32
Field Id		1895

Physical Measures by Enrollment Status

Data As Of: 08/31/94 09/30/94 07:35

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	the transfer

	HORMONE	HORMONE REPLACEMENT THERAPY	THERAPT	DIR	DIET MODIFICATION	ATION		TOTAL	
Measure	Z	N Mean SE		×	N Mean	NS.	Ż	Mean	85
WEIGHT KG	1447	1447 74.92 0.39	0.39	3665	3665 74.88 0.24	0.24	4496	4496 74.39	0.21
HEIGHT CM	1447	161.77	0.16	3665	162.32	162.32 0.10	4496	4496 162,22 0.09	60.0
BMI	1447	28.63	0.14	3665	3665 28.47	0.10	4496	4496 28.31	0.09
SYSTOLIC 1	1447	129.09	0.47	3665	128.26	0.30	4496	128.33	
DIASTOLIC 1	1447	76.81	0.24	3665	3665 76.73	0.15	4496	4496 76.70	

4. Follow-up Activities

4.1. Overview

Routine follow-up contacts for the CT are designed to ascertain outcomes, assure safety, and assess adherence to interventions. The follow-up schedule consists of annual clinic visits for all CT women, a semi-annual clinic visit 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 six months post-randomization as the designated contact window.

4.2. Adherence to Contact Schedule

Table 4.1. - Adherence to First Semi-Annual Contact by Clinical Center displays adherence to contact schedule by CC for the first semi-annual contact. Data are shown only for women whose contact window was completed by August 31, 1994, indicating that a contact should have occurred.

Current data indicate that 72% of the semi-annual visits required to date have been conducted, with 59% occurring within the 4-week window. There is considerable variability between Clinical Centers on performance of follow-up contacts (between 6% and 100%). The low number of visits due at many VCCs indicate that follow-up activities have not yet become a routine activity. A delay in finalizing some follow-up instruments and in the entering these data contributes to the low number of reported follow-up contacts. VCCs are in the process of completing these data. No data are yet available for the 6 week HRT telephone contact because of the delay in finalizing and implementing the instrument.

4.3. Participation Status

Women may refuse to participate in continued intervention or follow-up activities. Women who withdraw from further intervention are to be 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 submitted on *Form 7 - Participation Status*. Currently, no data are available from this form.

09/30/94 07:19 Data As Of: 08/31/94

. Table 4.1 Adherence to First Semi-Annual Contact by Clinical Center

	Number	Number		Number	Number Conducted
Cinic	Due*	Conducted	ed	In Window*	low**
			111111111	1 1 1 1	11 11 11 11 11 11 11 11 11 11 11 11 11
ATLANTA	0				
BIRMING	19	15	(78.95%)	13	(68.42%)
BOWMAN	16	· CO	ഗ	-	(6 25%)
BRIGHAM	24		(29.17%)	, ,	(20.178)
BUFFALO	37	27	(72.978)	22	(59.46%)
CHICAGO	ø	m	(20.00%)	1	(16.67%)
IOWACITY	9	9	(100.00%)	9	(100.00%)
LAJOLLA	24	9	(25.00%)	ı K	(20.83%)
MEMPHIS	46	37	(80.43%)	36	(78.26%)
MINNEAPO	69	99	(92.658)	57	(82.61%)
NEWARK	4	m	(75.00%)	2	(50.00%)
PAWTUCK	15	15	(100.00%)	6	(80.00)
PITTSBUR	27	21	(77,78%)	18	(66.67%)
SEATTLE	m	m	(100.00%)		(33 338)
TUCSON	17	-	(5.88%)	-	(5,88%)
UCDAVIS	38	37	(97.37%)	27	(71.05%)
Totals	351	252	(71.79%)	206	(58.69%)

* Number Due ** Number Conducted in Window = Members having a first semi-annual visit between 5.5 and 6.5 months after randomization

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 the routine follow-up clinic visits using the number of tablets remaining in the returned bottles and the length of interval between visits. Changes to study medications can occur because of hormone-related symptoms, other adverse effects, or hysterectomy. These changes can be to change dose, to add progesterone, change to an open-label hormone, or change to another blinded study hormone (from PERT to ERT after a hysterectomy).

Because of the limited number of follow-up visits conducted to date, we report only on the study-wide results. Of 152 women with HRT medication adherence data available at the first semi-annual follow-up visit, the average proportion of tablet consumption at six months was 94.6%. Four women have had some change in their study hormone prescription.

5.2. Symptoms

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

Of the 102 HRT participants with uteri and data reported from their first semi-annual visit, 8.8% report bleeding. One HRT participant has reported breast changes and one has reported other symptoms at the first semi-annual visit. There have been 35 reports of bleeding, one report of breast changes and one report of other symptoms from non-routine contacts of HRT participants.

5.3. Adverse Effects

There has been one adverse effect (deep vein thrombosis) reported.

5.4. Unblinding

Unblinding to HRT is indicated for management of severe symptoms and for serious adverse effects. As of August 31, 1994, 11 HRT participants' assignments had been unblinded, 10 as a response to reported symptoms and one related to procedural errors.

6. Dietary 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 in assigning those women randomized in the Dietary Change (intervention) arm into an intervention group. Ideally, all women in the Dietary Change arm should start intervention sessions within 12 weeks of randomization. Women waiting 20 weeks or more must be classified as minimal participants and other remedial action must be taken. See WHI Manuals, Vol 2 - Procedures, Section 6.10.6. - Levels of DM Intervention Participation for further details.

Tables 6.1. - Waiting Time for Start of Intervention Among DM Intervention Participants and 6.2. - DM Participants Awaiting Intervention Start-Up display the timeliness of initiating intervention by Clinical Center. Table 6.1. shows the length of time women waited between being randomized and starting intervention. Of the 1,455 women randomized to DM intervention, 781 have started intervention. Of the 781 women who have started intervention, 678 (86.8%) started within 12 weeks post-randomization. Table 6.2. shows the number of women waiting to start intervention. Of 1,455 DM participants randomized to the Dietary Change arm, 674 (46.3%) are awaiting group assignment and the start of intervention. Of the women awaiting intervention startup, 130 (19.3%) have been waiting 12 weeks or more and 62 (9.2%) have been waiting 16 weeks or more.

6.2. Adherence to the Intervention Program

Adherence to the DM intervention is assessed by attendance to group intervention sessions, and by self-monitoring reports of fat, fruit, vegetable, and grain scores. *Table 6.3. - Dietary Modification Session Adherence Summary* displays the study-wide reports of session attendance and completion (where completion equals group attendance plus make-up attendance), and the average of the self-monitoring scores by session.

Table 6.4. - Percent of Participants Completing Dietary Sessions displays session attendance for each Vanguard Clinical Center.

Attendance study-wide ranges from 97.8% at session 1 to 93.2% at session 7 to 90.4% at session 10 (*Table 6.3.*). Sessions move from weekly to biweekly at session 7 and from biweekly to monthly at session 10. Experience from the Women's Health Trial suggest that attendance will decline when the time interval between sessions becomes longer. Note that scores have not been recorded yet for session 10 pending a change in data recording procedures. This accounts for the low member count for scores at session 10.

The study-wide average fat gram score declined from 47.4 at session 2, when participants begin turning in their fat scores, to 26.8 at session 8 when participants are expected to have met their fat gram goals. Assigned fat gram goals range from 29-37, with 32-34 being most frequently assigned. Fat gram goals are individually defined in Protocol Section 4.2.2. from participant height and baseline total energy intake. The CCC monitors fat scores at sessions 8, 12, and 16, with the expectation that participants should have attained their fat gram goals

by session 8. Fat scores are collected and recorded at each session beginning with session 3 so that participants and nutritionists can track progress toward the goal.

The study-wide average fruit/vegetable score was 5.6 servings at session 8 when participants begin turning in their fruit/vegetable scores. This score is already above the DM intervention goal of 5 fruit/vegetable servings daily. Data (member count for scores) are insufficient to evaluate beyond session 9. The CCC monitors fruit/vegetable scores at sessions 12 and 16, with the expectation that participants should have attained their fruit/vegetable goals by session 12. Participants turn in fruit/vegetable scores beginning with session 8 so that they and their nutritionists can track progress toward their goals.

The study-wide average grain score was 4.7 at session 8 when participants begin turning in their grain scores. This score is below the DM intervention goal of six servings daily. Data (member count for scores) are insufficient to evaluate beyond session 9. The CCC monitors grain scores at session 16, with the expectation that participants should have attained their grain goals by session 16. Participants turn in their grain scores beginning with session 8 so that they and their nutritionists can track progress toward their goals.

6.3. Number of Active Groups and Group Sizes

The number of active groups and group sizes are displayed in Table 6.5. - Number of DM Intervention Women Assigned to Diet Groups at Session 01. Seventy groups are active, i.e., participants have been assigned to a group. All VCCs have conducted at least one group through session 6. One VCC has conducted at least one group through session 13. No VCCs have conducted session 14 or beyond.

The recommended group size is 8-15 participants, with the ideal range being 10-12 participants. Groups that are too small may lead to staff overload. Groups that are too large lead potentially to poor group dynamics. Forty-four percent of the groups are in the ideal size range. One VCC has two groups that are smaller than the recommended size. One VCC has one group that is larger than the recommended size.

6.4. Comparison of Dietary Intake

Dietary intake in DM is assessed at baseline and post-randomization in both the Intervention and Comparison arms with three instruments: the FFQ, the 4DFR, and the 24 Hour Recall (24HR). Currently only baseline values of the FFQ are available.

WHIP0433 1.1

Women's Health Initiative
Waiting Time for Start of Intervention Among DM Intervention Participants
By Clinical Center Table 6.1

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Data

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Table 6.2
Women's Health Initiative
DM Participants Awaiting Intervention Startup
By Clinical Center

Data As Of: 08/31/94

09/29/94 05:43

							time	e since r	since randomization	ation			; (((
Clinic	Randomized to DM/INT	Awaiting DM Intervention	Pct Total	< 4 Weeks	Pct Total	4-<8 Weeks	Pct Total	8-<12 Weeks	Pct Total	12-<16 Weeks	Pet Total	16+ Weeks	Potal
A DITA Y DIA			 		1	1 1 1	 	1	1	1			
ALLMINIA	9 0	44	64.7	2	4.5	14	31.8	α	18.2	α	18.0	1,2	,
BIRMING	76	99	68.0	2	3.0	22	73	5	000		100	7 .	0.73
BOWMAN	90	49	54.4	100	7	1 1	י י י	71	0 0	7 (19.7	οĭ	15.2
BRIGHAM	109	į v	ייי	1 -		9 6		ο· Τ·	36.1	13	26.5	2	4.1
BITERALO	000) r	- 1 (· ·	L13	7.17	14	23.3	16	26.7	16	26.7
	יי ר	O 1	1.24	T)	7.5	13	32.5	12	30.0	œ	20.0	4	10.0
CHICAGO	11	36	46.8	, -	2.8	o,	25.0	9	25.0	_	19.4	, -	9 6
IOWACITY	83	62	74.7	7	11.3	13	21.0		19.4	- "		7 5	0 . 0 . 0
LAJOLLA	88	34	38.2	•	0) F	. 00	- 1		7	, t	, T	#·/7
MEMPHIS	103	72		1 -	, ,) L	4.67	0 ;	4.42	٥	17.6	7	20.6
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PAWIOCK	66	24	24.2	0	0.0	00	33.3	α		י מ	1 0	י ר	- c
PITTSBUR	81	19	23.5	,	о С	•		•	, ,	۰ د) ·	7	g.B
SEATITIE	122	ווי ני		9 6	2 (# ·	T: 77	ע	7.75	7)	15.8	~	n,
MOOCILE	771	7 1	4.0	7	3.8	11	20.8	ഗ	9.4	16	30.2	19	35.8
TODACT	00	TC	85.0	2	w 6.	14	27.5	12	23.5	11	21.6	12	23.5
OCDAVIS	y 5	56	28.0	7	7.7	18	69.2	5	19.2	-	Θ.	i C	
•)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1	1 1 1 1	1 4 4 4 4 1	1 1 1		1 1 1	1	1	1)
Totals	1455	674	46.3	28	4.2	212	31.5	173	25.7	138	20.5	123	18.2

	e Summary
	dherenc
Table 6.3	Session A
Tab	/ Modification S
	Dietary

Data As Of: 08/31/94

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Scores Average Servings							0		· · ·	٠	7. P	ָ י י	יער	1.					4.6
Grain Member Count	1	> c	-	> c	0	> <	α	300	225) P	י ע			· C	c	o C	o C	· C	169
Scores Average Servings	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						ν Υ	ים ים ים			2.9	, C	9))					5.8
Member Count	1	0 0	o c	0 0	> C	0 0	000	300	225	4	56	17	7	0	0	0	0	0	169
Scores Average Grams	101	47.4	# C C C	30.4	28.2	27.3	26.6	26.8	26.3	26.4	24.1	24.7	27.4						26.8
נו ען נו		4.4	5.5	29.0	514	451	370	310	231	4	26	17	7	0	0	0	0	0	169
Perc	97.82	97.32	97.07	96.88	97.06	94.97	93.18	92.72	94.36	90.43	89.86	90.48	80.00	00.0	00.0	00.0	00.0	0.00	100.00
Completed Session		689	630	620	295	491	396	331	251	104	62	19	8	0	0	0	0	0	182
Attended Session		626	268	549	200	433	351	282	213	91	52	17	80	0	0	0	0	0	0
Members Evaluated		708	649	640	579	517	425	357	266	115	69	21	10	0	0	0	0	0	182
Members Assigned	810	759	710	667	618	579	539	494	324	232	133	5.5 5.0 6.0	10	0 (o (-	5 (0 ;	324
Session ID	01	02	03	0.4	95	90	/0	8 C	ν (c	7,	T ;	71	۲ ۱ ۲	1.4 1.5	To	T C	/ T		19 (Individual)

09/30/94 07:54 Data as of: 08/31/94

Table 6.4
Percent of Participants Completing Dietary Sessions
By Clinical Center

03
100.00
90.32
96.67
94.76
98.18
100.00
100.00
100.00
100.00
100.00
94.34
98.18
92.86
88.89
96.36

Table 6.5

Number of DM Intervention Women Assigned to Diet Groups at Session 01 By Clinical Center

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Women v 15	ţ
Session 01 Total Total 1 50.0 0 0 0.0 2 50.0 1 25.0 1 16.7 2 28.6 2 28.6 2 28.6 3 3.3 3 3.3 4 34.3	
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in Each Group At Pot 13-1 Total Women Total Women 100.0 0.0 100.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 26.7 42.9 0.0 28.6 33.3 16.7 44.3	
Women Assigned 10-12 tal Women 10-12 Women 10-12 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	
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Women 8-9 Women 0 0 0 0 0 2 2 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	
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Number of Groups Groups 2 2 4 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
Clinic Name	

7. Outcomes

7.1. Overview

Outcomes are ascertained at routine follow-up visits. Initial reports of clinical outcomes are obtained on Form 33 - Medical History Update or through routine procedures during the annual visit (e.g., mammography, endometrial aspirations, ECGs). Depending on the type, outcomes may be accepted based on self-report, or local and central adjudication may be required. See Vol. 2 - Procedures, Section 17 - Outcome Procedures for further details.

7.2. Initial Report of Outcomes

As of August 31, 1994, Form 33 - Medical History Update data were available for 312 women. There were 32 women reporting hospitalizations since randomization. Self-reported outcomes from this form include: heart or circulatory problems--2; cancer--1; stroke/TIA--1.

7.3. Confirmed Outcomes

No outcomes have been confirmed. Documentation and adjudication awaits implementation of outcomes procedures currently under development.

8. Quality Assurance

Data quality in WHI is promoted through standardized documentation and data collection instruments, central training and certification for lead personnel, local training and certification for other staff, checklists, direct observation, database monitoring (edit checks), duplication, and site visits.

To address additional VCC operational concerns beyond those of recruitment and screening, the Executive Committee in December 1993 formed a Streamlining Task Force (STF). One of the charges to the STF was to review the quality assurance program and make recommendations for streamlining. Recommendations for QA from the STF included: focus on high priority items; allow greater flexibility in the local QA implementation; rely more heavily on automated data checks. To meet these objectives, the decisions were made to accept all self-administered forms other than eligibility or outcomes related items without review with the participant and to convert most data collection forms to mark-sense (bubble) format.

8.1. Timeliness of Data

Table 8.1. - Timeliness of Data by Clinical Center summarizes the timeliness of data entry by CC. Acceptable performance is defined as 80% of data entered within 14 days of participant encounter and 95% entered within 30 days. Excellent performance is defined as 90% in 14 days and 98% entered within 30 days. Study-wide performance shows that 72% of data collected are entered within seven days, 84% within 14 days, and 94% within 30 days. Three VCCs (Buffalo, Minneapolis, and Seattle) have achieved excellent performance. Three other VCCs have acceptable performance (Atlanta, Iowa, and Tucson). Table 8.2. - Timeliness of Data Entry by Form summarizes timeliness of data entry by form. Forms capturing clinical or lab results are especially prone to data entry delays. This reflects the significant burden many CCs face in obtaining results from outside providers.

8.2. Completeness of Baseline Data

Table 8.3. - Completeness of Data on Randomized Participants summarizes the completeness of baseline data at form level for randomized participants by study component and task (form). Overall, the proportion of women missing a required baseline data form is less than 1%. Note that a WHILMA algorithm checks for entry of all eligibility data and the encounter information (header) for all other baseline forms as a prerequisite to randomization, thus assuring a high level of complete data.

Summaries of missing data at the level of the individual fields have not been prepared. Examples of the frequency of missing values for selected variables may be found in *Tables 3.3.-3.6. -- Questionnaire Responses by Enrollment Status*. For race/ethnicity, marital status, family income and education, the frequencies of missing values ("Value not entered") were 0.1%, 0.2%, 2.5%, and 0.2%, respectively.

8.3. Post-Randomization Changes in Eligibility Data

As noted above, the entry and automated evaluation of all eligibility data is required in WHILMA prior to randomization. CCs have the ability to edit all locally entered data, although warning messages are displayed whenever eligibility data are modified.

Table 8.4. - Post-Randomization Changes in Eligibility Data displays all changes made to eligibility data post-randomization. No participant became ineligible based on these changes. The age stratum for one participant's randomizations to HRT and DM is made incorrect by one change.

8.4. Specimen Data Quality

WHI specimens are defined generically as products collected from participants that require further central processing before data are generated for the study database. Examples of specimens are blood and urine aliquots, electrocardiograms, bone densitometry, 4DFRs, and endometrial aspirations. These specimens are collected and logged by CC staff and sent directly to the appropriate central processing site. Data are provided to the CCC from the central processing site and the CCC is responsible for linking these data to existing information in WHILMA.

Three CCC subcontractors (Ogden, Epicore, and UCSF) have provided data tracking information as of August 31, 1994. Data presented here show matching rates between WHILMA tracking data and those data provided by the central processing sites. These reports are used to alert the CCC to problems in identifying and retrieving centrally-processed data. The proper identification of all of these products is critical to long term case-control analyses.

Because of the separate processes involved in satellite site operation, tracking reports in this section show site-specific data.

8.4.1. Blood and Urine Specimens

Table 8.5. - Matching Rates for Blood Draw IDs (Received at Ogden) summarizes blood and urine specimens received by Ogden by Clinical Center and the matching rate to Form 100 - Blood Collection and Processing entered into WHILMA. As of August 31, Ogden has received specimens from 9,475 blood draws of which 294 could not be matched to WHILMA data. This 3.1% unmatched may be attributable to normal lag time to data entry although labeling problems cannot be ruled out entirely at this time. Table 8.6. - Matching Rates for Blood Draw IDs (Logged Into WHILMA) summarizes Form 100 data in WHILMA and the proportion of these specimens actually received at Ogden. Of 10,073 specimen draws reported in WHLMA, 8.9% have not been received by Ogden. Those specimens not matched probably reflect delays in shipment to Ogden and some confusion about procedures for specimens of women found to be CT ineligible. While this proportion of unmatched specimens is higher than hoped, clarification with some VCCs about their internal procedures should reduce this to an acceptable level.

Each blood draw is designed to produce 12 required aliquots. Table 8.7. - Percent Complete Blood Sample Aliquots in Storage summarizes the completeness of blood collection and storage by Clinical Center, based on unique blood draws actually received at the repository. Of these, 96.9% of draws have the complete set of aliquots. The range among Clinical Centers is from 87.7% to 99.7% of specimens. In the case of difficult blood draws, current procedures allow for the collection of only the bloods required for safety analyses (CBCs and triglycerides). Among the 4,496 women randomized, 34 (0.8%) had only safety bloods collected.

Table 8.8. - Matching Rates for Urine Draw IDs (Received at Ogden) summarizes urine specimens received by Ogden from the VCCs participating in the Osteoporosis substudy. Ogden has received specimens from 2,114 collections, of which 2,025 could be identified in WHILMA. The remaining 4.2% that cannot currently be identified is within the range expected from key entry delays. Among those specimens logged into WHILMA, Table 8.9. - Matching Rates for Urine Collection IDs (Logged Into WHILMA) indicates that 15.2% have not been received at Ogden. Further tracking of these unmatched specimens is underway. 99% of stored urine specimens have the required number of aliquots.

8.4.2. Electrocardiograms

Table 8.10. - Matching Rates for ECG IDs (Received at Epicore) summarizes the ECGs submitted by CCs to Epicore and the proportion of these matched to Form 86 - ECG data in WHILMA. Of the 5,804 ECGs received by Epicore for WHI, 4.8% of the ECGs could not be matched. This value is within the limits expected from normal key-entry delays, but the variation between CCs indicates that attention to local procedures is required. Table 8.11. - Matching Rates for ECG IDs (Logged Into WHILMA) summarizes Form 86 data in WHILMA and the proportion of these ECGs received by Epicore. Of the 6,318 ECGs reported in WHILMA, 12.5% have not been received by Epicore. This value is higher than expected given that ECGs are transmitted electronically from the CCs to Epicore after each group of 10-12 ECGs is obtained. Failure to match is most likely due to using an incorrect study ID number. Additional attention to these procedures is needed to increase the matching rate to an acceptable level.

Quality scores for ECGs are defined on a scale of 1 (highest quality) to 5 (lowest). Epicore assigns a quality score to ECG as part of their central reading. Table 8.12. - ECG Quality Grades summarizes quality of ECGs by Clinical Center. Grades 4 and 5 are considered unacceptable grades. Continued follow-up of machinery and technicians is required to reduce the rates of unacceptable ECGs.

8.4.3. Bone Densitometry

Tables 8.13. - Matching Rates for Bone Scan IDs (Received at UCSF) and 8.14. - Matching Rates for Bone Scan IDs (Logged into WHILMA) provide a summary of bone densitometry tracking data for the three osteoporosis substudy CCs. UCSF has received 1,366 bone scans of which 7.8% could not be matched to Form 87 - Bone Densitometry data in WHILMA, again somewhat higher than expected by data entry delays. Of the 1,303 bone scans reported in WHILMA, 3.3% have not been received by UCSF. Since bone scans are submitted only

monthly, this unmatched quantity is well within the limits expected from normal processing delays.

Timeliness of Data Entry Study-Wide by Clinical Center Table 8.1

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org ID	Clinic Name	rotal Forms	No Data	% of Total	0-7 Days	% of Total	8-14 Dave	% of	15-30	% e	30+	% of
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71.	BIKMING	14830	12	0.1	7492	r C	200		9000	ö.	, 58 9	4.8
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15	BUFFALO	10801	, t		8/0/	7.00	1263	11.8	1685	15.8	658	2
16	CHICAGO	10001	n c	·	9655	88.6	582	5.3	439	4	202	10
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Sum

09/29/94 06:10 Data As Of: 08/31/94

Timeliness of Data Entry By Form Table 8.2

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		29586	408	10492	9053	13973	9689	6927	53	2	11393	7496	7475	6219	312	6526	851	7443	6108	76	20720	3839	10647	2206	1279	200	6375	6604	6348		30	1911
	Task Name	ELIGIBILITY SCREENING	HRT WASHOUT	3	FINAL ELIGIBILITY ASSESS	SCREENING CONSENT		DMT CONSENT	OS CONSENT	CAD CONSENT	PERSONAL INFORMATION	MEDICAL HISTORY	REPRODUCTIVE HISTORY		MEDICAL HISTORY UPDATE	PERSONAL HABITS		THOUGHTS AND FEELINGS	DAILY LIFE (2)	ON-STUDY BLEEDING	FOOD FREQUENCY	FOUR DAY FOOD RECORD	PHYSICAL MEASUREMENTS		ENDOMETRIAL ASPIRATION	ULIKASOUND	BKEAST EXAM	MAMMOGKAM		BONE DENSITOMETRY	OOPHORECTOMY	
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Completeness of Data on Randomized Participants by Study Component and Required Forms

Table 8.3

Data As Of: 08/31/94

Randomizations DM HRT

1447

3665

Task Name	DM Keyed	æ	HRT Keyed	æ
701011111111111111111111111111111111111		1 1 1		1 1
ELIGIBILITY SCREENING	3665	100.00%	1447	100.00%
ELIGIBILITY REVIEW	3665	100.00%	1447	100 00%
FINAL ELIGIBILITY ASSESSMENT	3665	100.00%	1447	100.00%
SCREENING CONSENT	3665	100.00%	1447	100.00%
HRT CONSENT			1447	100.00%
DMT CONSENT	3665	100.00%		
ERSONAL INFORMATION	3665	100.00%	1447	100.00%
EDICAL HISTORY	3661	968.66	1446	99.938
EPRODUCTIVE HISTORY	3660	99.868	1445	898.868
AMILY HISTORY	3649	99.568	1439	99.45%
ERSONAL HABITS	3641	99.358	1437	99.318
THOUGHTS AND FEELINGS	3657	99.788	1446	99,938
FOOD FREQUENCY	3663	99.958	1446	99,938
FOUR DAY FOOD RECORD	3665	100.00%	• ! !)))
PHYSICAL MEASUREMENTS	3665	100.00%	1447	100.00%
ELVIC/PAP SMEAR			1447	100.00%
BREAST EXAM	3665	100.00%	1447	100.00%
MAMMOGRAM	3665	100.00%	1447	100.00%
ECG	3647	99.51%	1445	99.868
BLOOD DRAW	3665	100.00%	1447	100.00\$
	SCREENING CONSENT HRT CONSENT DMT CONSENT PERSONAL INFORMATION MEDICAL HISTORY FAMILY HISTORY FAMILY HISTORY FAMILY HISTORY FAMILY HISTORY FOOD FREQUENCY FOOD FREQUENCY FOUR DAY FOOD RECORD PHYSICAL MEASUREMENTS PELVIC/PAP SMEAR BREAST EXAM MAMMOGRAM ECG BLOOD DRAW	THEENING CONSENT THE CONSENT	EENING CONSENT SOUND INFORMATION SOUND I	EENING CONSENT CONSENT CONSENT CONSENT CONSENT CONSENT CONSENT SOUNT INFORMATION SOUNT SOU

Table 8.4

Post-Randomization Changes in Eligibility Data

09/29/94 06:25 Data as of: 08/31/94

Lated	E	YES	YES	YES							YES	YES	YES	YES	YES	YES
Associated Study	HRT	YES		YES	YES		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Criteria	Affected	AGE >= 50 AND < 80 MENOPAUSE, DM & OS MENOPAUSE, HRT	BMI	BMI	PAP SMEAR / PELVIC EXAM		PAP SHEAR / PELVIC EXAM	PAP SMEAR / PELVIC EXAM	PAP SMEAR / PELVIC EXAM	ENDOMETRIAL HYPERPLASIA	CANCER, MAMMOGRAM & CBE	CANCER, MAMMOGRAM & CBE				
Current	Value	04/24/43		70.2	90	0	-	0	02/23/94	02/03/94	08/23/93	11/22/93	10/01/93	06/14/94	06/53/94	0
Remon	For Response Change	Incorrect date entered previously	Diet staff deemed her ineligible due to BMI	wrong measurement/reweighed	Current information incorrect. Uterine size 6 weeks not 0 weeks.	Information missing in this field. Correct response is no.	Hard copy of 81 was lost, GYN gave results on phone, hard copy found and is being entered	original hard copy lost and then found	Year was indicated incorrectly for collection date should be 02/23/94.	NP wrote incorrect dateout of range	error	error	error	New Mammograh	addendum added following receipt of old films	update comparison report
Change	Date of the second	08/02/94	07/20/94	08/10/94	07/20/94	07/20/94	08/26/94	08/26/94	07/05/94	08/08/94	07/22/94	07/22/94	07/22/94	06/30/94	08/31/94	07/20/94
Original	Permanan	04/24/33		60.2	00		0		02/23/93	02/04/94	02/24/94	10/01/94	09/01/94	10/25/93	06/29/94	1
Kember		13 10823 L	21 10788 н	12 10043 M	14 10076 Y	14 10076 Y	13 10927 X	13 10927 X	30 10256 N	18 10189 A	26 10280 K	26 10284 0	26 10086 X	28 10007 P	26 10632 R	19 10913 P
S Short		Birth date	DM - BMI > 40	Weight	Uterine size weeks	Enlarged since last exam	Adnexae	Mass	Date collected	Date of endometrial aspiration	Date of mammogram	Summary of report				
Field n Order			15	c o	22	23	24	25	28	-	1		1			4
Form Vereion		0	0	-		-	1	1		1	-			-		-
Form 10	:	ro	w	80	81	81	ŧ	81	81	83	85	85	85	82	92	95

WHIP0593 1.1

Table 8.4 (Cont.)

Post-Randomization Changes in Eligibility Data

	3
	40/11/94
25	à
90	
194	0
/62/60	
60	Sat a

Associated Study ERT DM	;	YES	YES
A440	1	YES	YES
Criteria Affected		CANCER, MAMNOGRAM & CBE	CANCER, MAMMOGRAM & CBE
Current Value		0	0
Reason For Response Change		08/10/94 Addendum to original mammo report (received &-28-94) indicates no significant interval change in microcalcifications and pt can be followed yearly	08/26/94 6 mo followup mammo. results
Change Date	,	08/10/94	08/26/94
Original Response		pel	
Member ID		14 11416 H	11 10344 N
Short Verbiage		4 Summary of report	Follow-up results
Field Order		₹	80
Form Form ID Version		T.	H
Porm ID	:	82	82

WHIP0593 1.1

Data As Of: 08/31/94

Table 8.5 Matching Rates for Blood Draw IDs based on Specimens Received at Ogden by Clinical Center

CLINIC	Number of Ogden Draws	Number of Ogden Draws Match/w WHI Forms (ID)	Ogden Draws Not Match/w WHI Forms	% Not Matched
ATLANTA	423	404		
BETTENDO	256	251	, u	חיכ יייר
BIRMING	516	0000	ט ה ה	0.6
BOWMAN	523	491	33	1.0
BRIGHAM	445	4 4 4	30	7.0
BUFFALO	520	510	3 C	T 0
CHICAGO	324	310	0 6	A
EVANSTON	410	373	1. C	n c
IOWACITY	379	373), L
LAJOLLA	267	561	v	D
MEMPHIS	662	9	90	7.7
MINNEAPO	638	m	, c) C
NEWARK	427	426		
PAWTUCK	472	445	27	91.
PITTSBUR	1149	1116	i m	
SEATTLE	669	687	22) -
TUCSON	467	427	1.4	· α
UCDAVIS	598	290	œ	D::1
Total	9475	9181	294	3.1

WHIP1042

Table 8.6
Matching Rates for Blood Draw Ids based on Specimens Logged into WHILMA, by Clinical Center

Data As Of: 08/31/94

09/30/94 02:06

ATLANTA BETTENDO BIRMING BOWMAN BRIGHAM BUFFALO CHICAGO	*	Ogden (ID, Date)	Ogden Number	% Not Matched
TTA INDO ING IN IAM ILO GO				
INDO ING IN IAM ILO GO	404	404	C	
NG NN IAM ILO GO	274	251	2 %	0.00
IN TAM KLO KGO	535	2005	3 K	ט ע
IAM LLO GO	584	491) m	ָ טָּיָת
ALO AGO	463	443) C	U. D. A.
730	524	510	14	C C
	345	310	1 E	
NOLS	375	373		H . C
TI.	373	373	10	
A.I.	595	561	34	7.5
IIS	637	636		6
APO	662	638	2.4	3 W
¥	609	426	183	0.08
ICK	457	445	12	9.2
XI	96	0	96	0.001
BUR	1129	1116		1.0
37.	701	687	14	2:.
N	633	428	205	3.2
IS	677	589	88	13.0
Totals	10073	9181	892	8.9

Table 8.7
Percent Complete Blood Sample Aliquots in Storage by Clinic Center

CLINIC	Clinic Total	Total Complete	% Complete
MINNEAPO	111111111111111111111111111111111111111		
PAWITICK	227	000	7.60
UCDAVIS	1 0 L	¥. €0.⊓	99.4
MEMPHIS	0 0	2 6 C C C C C C C C C C C C C C C C C C	0.00
BRIGHAM	445	ה ה ה	y
CHICAGO	324	0 t t	
IOWACITY	379	926 976	0.00
EVANSTON	410	403	
PITTSBUR	1149	1127	2.00
BUFFALO	520) 	1.00
BIRMING	516	515	20.T
BETTENDO	256	248	9.40
NEWARK	427	412	ייני
LAJOLLA	567	542	000
ATLANTA	423	403	0,00
SEATTLE	669	547	2.00
TUCSON	467	AC P	20 C
BOWMAN	523	472	91.6
Totals	9475	9181	1 40
		1 > 1	A

Data As Of: 08/31/94

Table 8.8 Matching Rates for Urine Draw IDs based on Specimens Received at Ogden by Clinical Center

% Not Matched	13.4
Ogden Draws Not Match/w WHI Forms	22 61 89
Number of Ogden Draws Match/w WHI Forms (ID)	493 1137 395 2025
Number of Ogden Draws	515 1143 456 2114
CLINIC	BIRMING PITTSBUR TUCSON Total

Table 8.9

Matching Rates for Urine Collection IDs based on Specimens Logged into WHILMA, by Clinical Center

Tabl
Matching Rates for Urine Col

Data As Of: 08/31/94

09/30/94 01:30

CLINIC	0 -	Number of WHI Specimen Forms Match/w Ogden (ID, Date)	WHI Specimen Forms Not Match/w Ogden Number	% Not Matched
BIRMING	529	493	36	8.9
HOENIX	83	0	83	0.001
ITTSBUR	1192	1137	55	4.5
UCSON	582	394	188	32.3
Totals	2386	2024	362	15.2

WHIP1047

8.1.241 8.1.241 8.1.200 8.1.200 8.1.200 6.1.20 % Not Matched Epicore ECG's Not Match/w WHI ECG FORMS 277 274 1674 354 314 131 168 342 342 464 Number of Epicore ECG's Match/w WHI ECG Forms (ID, Date) 241 375 9 457 376 241 320 Number of Epicore ECG'8 BRIGHAM BUFFALO CHICAGO EVANSTON IOWACITY LAJOLLA MEMPHIS BETTENDO BIRMING PITTSBUR SEATTLE TUCSON NEWARK PAWTUCK PHOENIX ATLANTA BOWMAN **JCDAVIS** CLINIC Totals

WHIP1022

Table 8.11

Rates for ECG IDs based on ECGs Logged into WHILMA, by Clinical Center

Kat	
Matching	
08/31/94	
of:	
a	
Data	

09/29/94 03:42

353 333 50 50 50 70 130 154 131 131 20 20 50 70 130 130 140 140 188 168 20 20 10.6 20

WHIP1021

Table 8.12 ECG Quality Grades

							Percent
	Total			Grades			Unacceptable
Clinic Name	ECGs	1	2	ဗ	America.	3.7.7.2.5	(Grades 4-5)
Minneapolis	465	422	39	4	0	0 11 11 11	0.00%
Chicago	135	87	39	က	<u>15</u>		4.44%
Bettendorf	170	87	56	17			5.88%
Buffalo	365	241	84	18	įœ		6.03%
Birmingham	360	154	143	41	4	5	6.11%
UCDavis	339	162	121	32			7.08%
Brigham	341	171	118	25	8	ET 119	7.92%
Pawtucket	388	212	119	25	9	26	8.25%
Phoenix	12	2	9	0	0		8.33%
Evanston	. 173	101	49	æ	7		8.67%
Newark	264	143	72	26	9		8.71%
Iowa City	252	91	111	28	01	12	8.73%
LaJolla	355	188	105	28	6	25	9.58%
Memphis	416	242	66	34	E E E E E E E E E E	F 126	9.86%
Atlanta	304	169	20	34	(0)	23	10.20%
Pittsburgh	466	221	140	47	118	H 140	12.45%
Bowman	331	132	107	45	0	18 34	14.20%
Tucson	566	82	114	30	9144	12000年	15.04%
Seattle	402	153	136	44	24	45	17.16%
Total	5804	3063	1728	489	489 (1882) 170 (1882) 354	## 354	%80'6

09/29/94 03:43 Matching Rates for Bone Scan IDs Based on Bone Scans Received at UCSF by Clinical Centers Data as of: 08/31/94 09/29/94 03:43

% Not Matched	M . W . S. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	13.2
UCSF SC Not Matc WHI SCAN FO	16 18	72
Number of UCSF Scans Match/w WHI Scan Forms (ID, Date)	494	474
Number of UCSF Scans	512	546
CLINIC	PITTSBUR TUCSON	Total

Table 8.14 Matching Rates for Bone Scan IDs Based on Bone Scans Logged Into WHILMA by Clinical Centers (Form Cutoff Date: 08/31/94) 09/29/94 03:43

% Not Matched	/ · · · · · · · · · · · · · · · · · · ·	0.001	o. c	
WHI Scan Forms 'Not Match/w UCSF Scans	₹ cc	ο α	25 6	43
Number of WHI Scan Forms Match/w UCSF Scans (ID, Date)	0	494	474	1260
Number of WHI Scan Forms	ω	502		1303
CLINIC	PHOENIX	PITTSBUR	TUCSON	Total

WHIP1051

9. Adherence to Study Timeline

Protocol Section 11 defines the study timeline, reflecting the progress and expectations as of August, 1994.

Protocol approval for study initiation was obtained from the WHI Executive Committee on July 1, 1993, from the WHI Data and Safety Monitoring Board on June 16, 1993, and from the Fred Hutchinson Cancer Research Center's Institutional Review Board on August 19, 1993. The Investigational New Drug (IND) application to the FDA was approved in July 1993. Study procedures and forms were approved in parallel. During the summer of 1993, the WHI also underwent an extensive review by the Institute of Medicine.

In spite of an initial delay of about three months in the award of the VCCs, recruitment in the WHI CT was officially opened on schedule on September 1, 1993 through the determined effort of many WHI investigators and staff. Ten VCCs were able to begin screening visits in the first month, though IRB, facilities and staffing problems, and competing study recruitment delayed screening in some VCCs until October (four VCCs) or November (two VCCs). The first randomization occurred on October 29, 1993.

The startup for the OS was delayed by the need to obtain OMB clearance for all forms, procedures, and participant materials used for OS women. The OS was officially opened for enrollment on September 1, 1994. The delay in the opening of the OS 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. This delay will result in a loss of approximately 35,200 years of observation (4% of expected).

On September 29, 1994, 24 new CCs were named. These CCs are scheduled to begin recruitment and screening in February 1995 with accrual to be completed by January 31, 1998. With each CC's recruitment goals defined on the basis of 45 CCs rather than the 40 actually funded, this will result in a deficit of 7,000 participants in the CT and over 11,000 in the OS. To address this shortfall, VCCs are being invited to make proposals to recruit beyond their currently funded levels during the period of February 1995 through January 1998.

During the next six months, VCCs will conduct their first annual follow-up visits for CT participants. The first annual visit will provide key information on study adherence and some intermediate endpoints. Enrollment into CaD, planned to occur in the 8-week window surrounding the first annual visit, will begin as soon as study medications are available. We are currently working under the assumption that these supplies will be supplied to us by December, 1994. The first CaD randomization should occur shortly thereafter.

CONFIDENTIAL



Women's Health Initiative Clinical Trial and Observational Study

Annual Report

Volume 2: Clinical Trial Monitoring September 1, 1993 to August 31, 1994

Prepared by
WHI Clinical Coordinating Center
Fred Hutchinson Cancer Research Center

Ross Prentice, Principal Investigator

Funded by National Institutes of Health Contract No. N01-WH-2-2110
October 3, 1994

WHI Annual Report Volume 2 Clinical Trial Monitoring

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		•		

1. Preliminary Remarks

This report documents study activities of the Women's Health Initiative Clinical Trial (CT) during the period September 1, 1993 to August 31, 1994 as reflected by data provided to the Clinical Coordinating Center (CCC) by the Vanguard Clinical Centers (VCCs, funded in Spring 1993) and the CCC subcontractors (central laboratories) by August 31, 1994. The WHI Annual Report, Volume 2: Clinical Trial Monitoring presents issues of particular interest to the WHI Data and Safety Monitoring Board (DSMB). Presentations include those designed to address the feasibility of the design and the safety and ethical issues of continuing the randomized Clinical Trial (CT) components as defined by the current Protocol. To protect the blinding and confidentiality of these results, the WHI Annual Report, Volume 2 circulation is limited to the WHI DSMB and appropriate NIH and CCC staff. The reader is referred to the WHI Annual Report, Volume 1: Study Progress for more detailed information on study activities of a non-confidential nature.

All data presented here are derived from WHILMA, the study database, or in the case of serious adverse effects, by direct communication. Data managed in WHILMA are those defined by standardized data collection procedures and instruments (see WHI Manuals, Volume 2 - Procedures and Volume 3 - Forms). As the first Annual Report for WHI, data on many aspects are not yet complete. In some instances, simple listings are shown or sparse tables are presented to demonstrate a proposed reporting format. Other data summaries will be developed as the study and database mature.

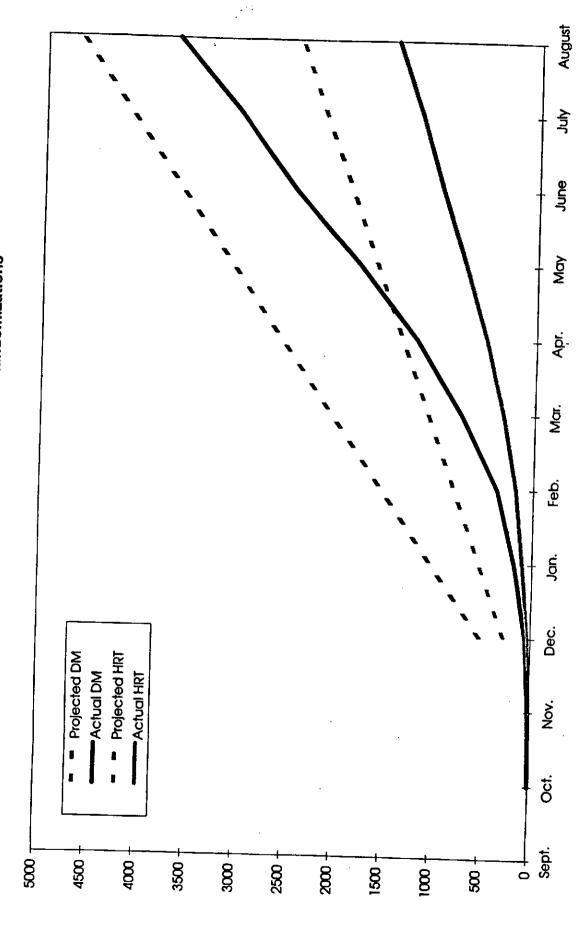
2. Enrollment

Enrollment into WHI is a multistage process consisting of recruitment, screening and randomization into the CT (or registration into the Observational Study). Vol. 1 - Study Protocol and Policies, Protocol Section 5.2. - Enrollment describes the model screening process. Briefly, eligibility and willingness to participate in either the Hormone Replacement Therapy (HRT) component, the Dietary Modification (DM) component, or both are determined through a series of three Screening Visits (SV1-SV3). Clinical Centers (CCs) may tailor the process to local needs, subject to the constraints of informed consent and prerandomization data requirements. Power calculations assumed a uniform accrual during a 36-month recruitment period. For the purposes of establishing CC goals, we made the following assumptions: (1) the expected time from initial contact to SV3 would be three months; and (2) CCs should reach full accrual (randomization rates) by month 4 (December 1993 for VCCs). From these we calculated monthly goals of 16.8 HRT and 32.3 DM randomizations per month per CC or 270 HRT and 517 DM randomizations per month for all 16 VCCs.

Figure 2.1 - Projected and Actual Cumulative Randomizations by Month displays the cumulative randomizations and goals for the HRT and DM components. As of August 31, 1994 the WHI had randomized 4,496 women into the CT. Of these, 1,447 are randomized to HRT (59.6% of cumulative goal) and 3,665 are randomized to DM (78.7% of cumulative goal). While the cumulative goals have not yet been reached, Figure 2.2. - DM and HRT Randomizations per Month shows that monthly DM randomization goals have been exceeded for the last four months and randomizations into HRT are approaching the monthly goals (97% in August). The lag in HRT accrual is partly due to a lower than anticipated interest in the HRT component. It is also affected by a longer average screening interval associated with the HRT washout and run-in periods. If the current rate of accrual can be maintained (125% of monthly goal), the VCCs should be able to meet their cumulative goals for DM within the next year. Though VCCs have made good progress toward meeting the monthly HRT goals, additional effort will be required to cover the existing shortfall.

The randomization scheme for WHI is based on a randomized permuted block algorithm, stratified by CC site, by age category (50-54, 55-59, 60-69, 70-79) and, for HRT, by hysterectomy status. Randomization ratios are defined as 30:28:42 for ERT:PERT:placebo in HRT and 4:6 for Intervention:Control in DM. Figure 2.3. - Randomization Assignments in the Partial Factorial Design shows a comparison of the number expected in each cell by design (compare to Figure 1 of the Protocol in Vol. 1 - Study Protocol and Policies, Section 2 - Protocol) under the current sample size and the number assigned. Of the 1,447 women randomized to HRT, 468 (32.3%) were assigned to ERT, 335 (23.2%) were assigned to PERT, and 644 (44.5%) were assigned to placebo. Of the 3,665 women randomized into DM, 1,455 (39.7%) were randomized to Intervention and 2,210 (60.3%) to Control.

 $^{
m Figure}$ 2.1. Projected and Actual HRT and DM Randomizations



Data as of August 31, 1994

DM and HRT Randomizations per Month

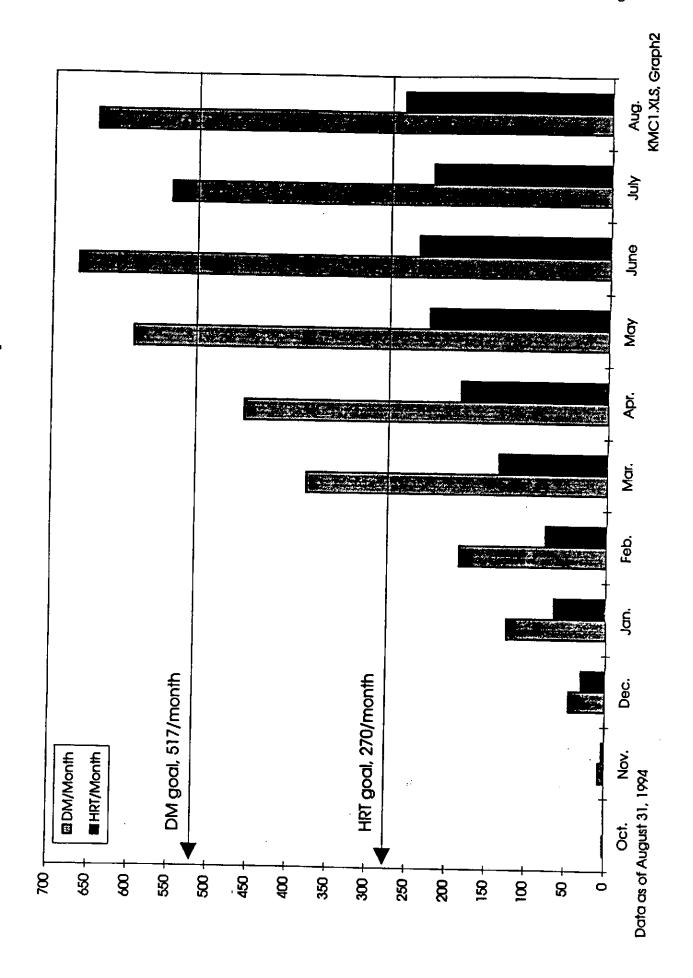
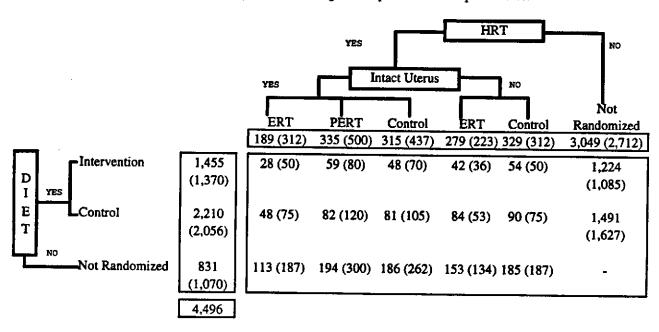


Figure 2.3.
Randomization Assignments in Partial Factorial Design

Number of women randomized in each cell with number projected from total sample size and design assumptions shown in parentheses.



3. Baseline Characteristics

3.1. Design Parameters and Study Goals

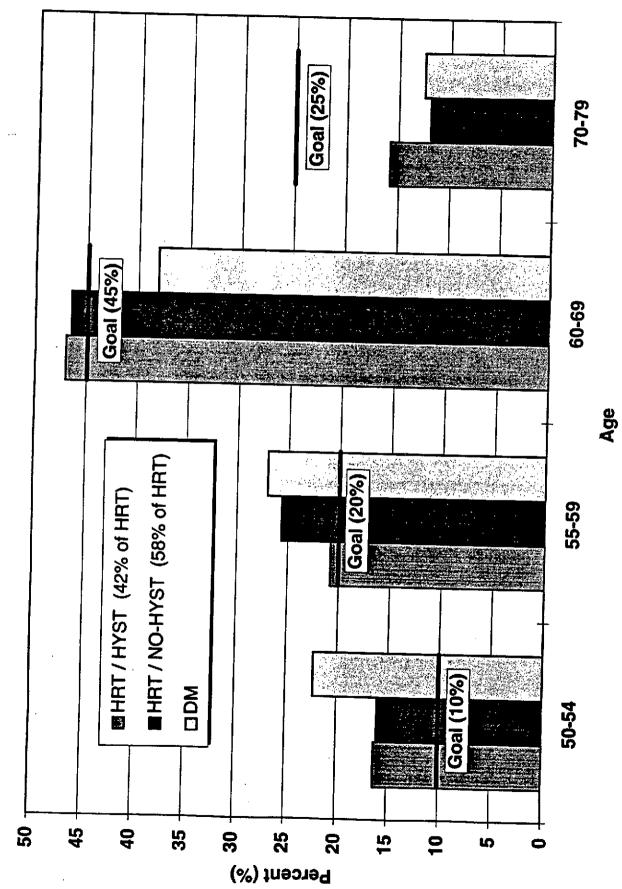
Age and, for HRT, hysterectomy status are design factors used in determining the required sample size for the CT. Figure 3.1. - Age Distribution by Study Component and Hysterectomy Status displays the current age among randomized women in each distribution component. Note that the prescribed age distribution for each 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 is to be limited to 30%.

The study has a clear deficit in the oldest age category; only 13.5% of HRT participants and 12.5% of DM participants are 70-79 years of age. 42% of women randomized to HRT have had hysterectomies. While there is some variability in the degree, these trends are uniform across CCs. The lower than anticipated number of women in the oldest age range affects the power of all CT components since the largest proportion of outcomes are expected to occur in this group of women. The higher prevalence of hysterectomies at baseline affects the power of the PERT vs. Placebo comparison. Since women with hysterectomies are not randomized to PERT, a higher prevalence of hysterectomy would reduce the sample size for the PERT vs. Placebo comparison. At the August 2, 1994 Executive Committee meeting, VCCs were asked to begin targeting older women through preferential recruitment and screening of these women.

3.2. Distribution and Balance on Selected Baseline Characteristics

To demonstrate the balance achieved on other baseline characteristics, Tables 3.1. through 3.9. - Questionnaire Response by Randomization Assignment present treatment arm-specific distributions for the following selected variables: race/ethnicity, marital status, income, education, ever smoker, alcohol, family history of breast cancer, parity, age at first pregnancy. Table 3.10. - Physical Measures by Randomization Assignment shows the treatment arm-specific distributions for height, weight, body mass index, and blood pressure.

Age Distribution by Study Component and Hysterectomy Status



Data as of August 31, 1994

Int * Control * 10.2 10 0.7 130 5.9 42 2.9 61 2.8 1300 89.3 1986 89.9 1455 100.0 2210 100.0
Int
ERT % PERT % Placement 0 0.0 0 0.0 0 0.0 3 0.5 4 0.9 2 0.6 2 0.3 31 6.6 16 4.8 42 6.5 24 5.1 14 4.2 22 3.4 409 87.4 297 88.7 570 88.5 0 0.0 5 1.5 4 0.6 0 0.0 335 100.0 644 100.0
PERT * PERT * 10 0.0 2 0.6 16 4.8 14 4.2 297 88.7 5 1.5 1 0.3
ERT % 0 0.0 4 0.9 31 6.6 24 5.1 409 87.4 0 0.0 468 100.0
Questionnaire Response
Werblage

Questionnaire Fields Used On Report

Verbiage		Racial or ethnic group	Racial or ethnic group
Field Order		10	18
Version		~ (7
Form	:	~ (,
Field Id Form Version		1618	7607

ė

09/07/94 09:52

Table Questionnaire R By Randomization
o ¥

Int & Control &	100.0 2209 1
RT % PERT % Placement % Placebo % % % % % % % % % % % % % % % % % % %	643 100.0
PERT	334 100.0
2 🖺	
Questionnaire Response Never married Divorced or separated Widowed Presently married Living in a marriage-like relationsh Value not entered	Total
Short Verblage Marital status	

Questionnaire Fields Used On Report

Varbiage		Marital status
Field Order		25
Version		-
Form	1	20
Field Id		1745

09/07/94 09:57

Table 3.3.

Questionnaire Responses	By Randomization Assignment

Int * Control * 43 3.0 43 22.7 539 24.4 530 22.7 539 24.4 531 20.0 432 19.6 4 4.4 112 5.1 56 2.5 32 2.2 2.2 45 2.0 32 2.2 2.2 45 2.0 32 2.2 515 515 515 515 515 515 515 515 515 51
•
Hormone Replaceme PERT % 22 6.6 49 14.7 80 24.0 66 19.8 63 18.9 15 4.5 15 4.5 9 2.7 334 100.0
ERT 29 6.7 77 16.5 140 29.5 91 19.4 74 15.8 24 5.1 9 1.9 9 1.9 9 1.9 8 1.7 1.5 8 1.7 1.7 1.5 8 1.7 1.5 8 1.7 1.5 8 1.7 1.5 8 1.7 1.5 8 1.7 1.5 8 1.7 1.7 1.5 8 1.7 1.7 1.5 8 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7
Questionnaire Response Less than \$10,000 \$10,000 to \$19,999 \$20,000 to \$34,999 \$50,000 to \$74,999 \$75,000 to \$74,999 \$150,000 or more Don't know Value not entered
Short Verbiage Total family income

Questionnaire Fields Used On Report

Field Id	Form	n Version #1	Field Order	Verbiage
	1			
1755	20		34	Total family inco

Table 3.4. Questionnaire Responses By Randomization Assignment

Diet Modification	0.0	23 1.0	399 18.1 218 9.9 666 30.1	235 10.6 · 244 11.0 319 14.4	31 1.4	2209 100.0
Diet M	0 0.0	38 2.6 37 17.0		1/2 11.8 173 11.9 185 12.7	28 1.9 3 0.2	1455 100.0
ment	0 0 0 0 0 0 0 0 0 0	13 2.0 24 3.7 146 22.7	70 10.9 160 24.9	73 11.4	10	643 100.0
ERT % PERT % Placebo	0.00	14 4.2 67 20.1	39 11.7 81 24.3 32 9 6	39 11.7 41 12.3	2 0.6	334 1
ERT %	1 0 0 0 1 1 9 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	37 7.9 96 20.5	62 13.2 137 29.3 36 7.7	33 7.1 42 9.0 5 1 1	1 0.2	468 100.0
Questionnaire Response	Didn't go to school Grade school (1-4 years) Grade school (5-8 years)	Some high school (9-11 years) High school diploma or G.E.D. Vocational or training school	Some college or Associate Degree College graduate or Baccalaureate	Some college alter college graduatio Master's Degree Doctoral Degree	Value not entered	10cm
Short Verbiage	in school				•	

Questionnaire Fields Used On Report

Field Id Form Version Field Order Verbiage		Highest grade in school
Field Order		07
Version		-
Form	20	3
Field Id	1741	4 = 7.4

09/07/94 10:48

Table 3.5. Questionnaire Responses By Randomization Assignment

.

Control & Control & 2 1106 50.5 1080 49.3 5 0.2 2191 100.0
Int % 701 48.4 744 51.4 3 0.2 1448 100.0
ERT % PERT % Placement 240 51.4 170 50.7 331 52.1 225 48.2 164 49.0 303 47.7 2 0.4 1 0.3 1 0.2 467 100.0 335 100.0 635 100.0
PERT % 170 50.7 164 49.0 1 0.3 335 100.0
ERT * 240 51.4 225 48.2 2 0.4 467 100.0
Questionnaire Response No Yes Value not entered
Short Smoked 100 cigarettes

Questionnaire Fields Used on Report

	Smoked 100 cigarettes
	∞
	· -
1	34
	2019

Questi Rv Pando

Table 3.6.

Int % Control % 164 11.3 238 10.9 1281 88.5 1951 89.0 3 0.2 2 0.1 1448 100.0 2191 100.0
ERT % PERT % Placement
Hormone Replaces PERT % 44 13.1 290 86.6 1 0.3
•
Questionnaire Response No Yes Value not entered
<pre>short Verblage 12 alcoholic drinks ever</pre>

Questionnaire Fields Used On Report

Field Id Form Vergion Field Order Verbiage			12 alcoholic drinks ever
Field order			28
Version	1 1 1 1	•	-
Form	1	7.0	# 1
Field Id	1111111	0600	000

Lable 3./.	Questionnaire Responses	By Randomization Assignment

09/07/94 10:18

Int % Control % 377 26.0 618 28.1 250 17.2 348 15.8 27 1.9 36 1.6 797 54.9 1195 54.4 1451 100.0 2197 100.0
Int % 377 26.0 250 17.2 27 1.9 797 54.9
ERT % PERT % PIACEMENT. 137 29.3 103 30.7 193 30.3 74 15.8 58 17.3 82 12.9 7 1.5 3 0.9 8 1.3 249 53.3 171 51.0 355 55.6 467 100.0 335 100.0 638 100.0
PERT % 103 30.7 58 17.3 3 1.0 171 51.0
ERT * 137 29.3 74 15.8 74 15.8 249 53.3 467 100.0
Questionnaire Response No Yes Don't know Value not entered Total
Short Verbiage Female relatives breast cancer

Questionnaire Fields Used On Report

Verbiage		Female relatives breast cancer
Field Id Form Version Field Order Verbiage		89
Version	1 1 1 1 1 1	~
Form	1 1 1	32
Field Id		1895

09/09/94 03:48

Questionnaire Response Ranges By Study Component and Treatment Assignment
Data as of: 08/31/94

Short Verbiage	Questionnaire Response Ranga	1	ł	rmone R	eplacem	Hormone Replacement		Q	iet Mod	Diet Modification	! ! !
			• !	FERT	* :	Flacebo	*		ję.	Control	æ
Live births	None	7	1.5		α -	1.1	6		1 6	1 3	
		47	0	, ,		1 4) r		 V .	5 di 1	۲.۶
	2	7) ())	9	T:/	143	ω. 80.	184	ო დ
	3 C	707	8.17	1.5	21.5	149	23.1	364	25.0	565	25.6
	2 •	108	23.1	86	25.7	176	27.3	338	23.2	578	26.2
	d i	79	16.9	41	12.2	105	16.3	218	15.0	300	16.6
	an '	25	11.1	33	6.6	51	7.9	107	7 4	, - 3 T	
	١٩٠	18	3.8	16	8.4	29	4	72	. 4	101	0 -
	_	10	2.1	11	m m	16	, C	. (, ,	, ר ה	7 Y
	8 or more	15	3.2	10	3,0	16	, C	200) a	0 4	, i
	No value entered	40	8.5	30	9.0	41	6.4	137	4	218	10
					1						
	Total	468	100.0	335 1	100.0	644	100.0	1455	100.0	2210	100.0

Questionnaire Fields Used On Report

Verblage		Live births
. Field order Verblage		12
Field Id Form Version		
Port	1 1 1	31
Field Id	1 1 1 1 1 1 1	1775

09/09/94 03:13

Table 3.9. Questionnaire Response Ranges By Study Component and Treatment Assignment

Int % Control % 177 12.2 306 13.8 670 46.0 939 42.5 335 23.0 519 23.5 74 5.1 144 6.5 29 1.3 3 0.2 0 0.0 173 11.9 273 12.4 1455 100.0 2210 100.0
Int % 12.2 670 46.0 335 23.0 74 5.1 23 1.6 3 1.6
ERT % PERT % Placement Placebo % Pla
PERT 43 12.8 139 41.5 79 23.6 24 7.2 8 2.4 2 0.6 40 11.9
ERT 88 18.8 209 44.7 91 19.4 26 5.6 4 0.9 0 0.0 250 10.7 468 100.0
Questionnaire Response Ranges Less than 20 20-24 25-29 30-34 35-39 40-44 No value entered
Werbiage Verbiage Age first full- term pregnancy

Questionnaire Fields Used On Report

Verbiage			Age first full-term pregnancy
Field Id Form Version Field Order Verbiage			07
Version			→
Porm	1	7.	10
Field id		1773	7

Table 3.10. Physical Measurements by Randomization Arm

Data As Of: 08/31/94 09/29/94 01:29

		j		ONE REPLAC	POWERING METAACEMENT THERAPY					DIES MANAGEMENT	***************************************				
	ESTROCKY	-	PROGESTIN/ESTEDOSE	SEBOSEN									TOTAL	ŧ	
					ESTRUMEN PLACEBO	90	PROGESTIN PLACERO	CERO	DIET INTERCEMENT	THE TOTAL	1111	1			•
Headure	Mae W	•	3							2011	CONTROL				ł
		4		6	N Mean	Ħ	See .	•	3	1					
WEIGHT KO	468 74.94 0.69	0.69	335 73.47 0.81	18.0				1	Ma was well		Mean an	Ħ	×	N Nean FR	
					70.67	6.0	170 75.80 1.09	1.09	1455 75.17 0.38	0.38	2210 74 69 0 30				ļ,
HEIGHT CM	468 161.44 0.29	0.29	335 162.11	1 0.36	474 161.75 0.27	0.27	170 162 06	,		;			4436 74,39 0.21	39 0.2	.
BMI	468 28.73	20	***		!			•	1455 162.38 0.16	0.16	2210 162.28 0.13	0.13	4496 162.22	22 0.09	
			323 47.98	0.30	474 28.91 0.25	0.25	170 28.87	0.40	1455 28.62 0 10		4	;			
SYSTOLIC 1	468 129,94	0.80	335 127.26	0.94	474 129 58	:		;		9	4410 28.38 0.11	0.11	4496 28.31	31 0.09	•
DIASTOLIC	668 78 93 0 42	;			3	5	1/0 129.01	1.49	1455 128.28 0.48	0.48	2210 128.24	0.38	4496 128.33	33 0.27	_
	16:01	7.0	333 76.03	0.32	474 76.97 0.43	0.43	170 77.59	99.0	1455 76.87	0.24	2210 76.64 0 20	6	7077		
													4436 76.70	70 0.14	_

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4. Follow-up Activities

4.1. Overview

Routine follow-up contacts for the CT are designed to ascertain outcomes, to assure safety, and to assess adherence to interventions. The follow-up schedule consists of telephone contacts at six weeks post-randomization for HRT, semi-annual clinic visits for HRT, semi-annual contacts (visits, telephone or mail contacts at CC discretion) for DM, and annual clinic visits for all CT women. The Protocol defines a four week interval surrounding the anniversary of randomization or surrounding six months post-randomization as the designated contact window. Completeness of follow-up is an important indicator of the adequacy of outcome ascertainment procedures. For DM, identical follow-up activities across the unblinded treatment arms is necessary to assure unbiased outcome ascertainment.

The first annual visit is the most comprehensive follow-up visit. Most baseline measures as well as the specimen collection is repeated for all CT women to provide estimates of intervention effects on intermediate endpoints. For cost efficiency, many procedures are performed throughout the follow-up period on only a subsample of participants.

4.2. Adherence to Contact Schedule

Table 4.1. - Adherence to First Semi-Annual Contact displays adherence to contact schedule for the first semi-annual contact. Data are shown only for women whose contact window was completed by August 31, 1994, indicating that a contact should have occurred. Since the first CT randomization was October 29, 1993, no annual visits are due yet. In future reports we will show follow-up activity by randomization assignment.

Adherence to contact schedule is lower than desirable overall. This represents delays in finalizing, implementing and entering the follow-up instruments, delays in scheduling follow-up visits because of anticipated protocol changes regarding follow-up, and the need to catch up on the randomization goals.

4.3. Participation Status

Women may refuse to participate in continued intervention or follow-up activities. Women who withdraw from further intervention are encouraged to participate in routine follow-up procedures to promote complete outcome ascertainment. Women who decline Protocoldefined safety-related follow-up procedures are withdrawn from the intervention. Reports of women changing their participation status post-randomization are submitted on Form 7-Participation Status. Currently no data are available from this form.

. Adherence to First Semi-Annual Contact by Clinical Center

Data As Of: 08/31/94

09/30/94 07:19

	Number	Mumber		Mimbor	the state of the s
Clinic	Due*	Conducted	pe:	In Wind	Window**
115111	11111				
ATLANTA	0				
BIRMING	19	15	(78.95%)	د -	1467 437
BOWMAN	16	i i	(31.05%)	7 -	(424.00)
BRIGHAM	24	, ,			(30.23%)
BUFFALO	3.7	27	(4/0 (/)	` c	- 1
CHICAGO		<u> </u>	(800	77	(02,404)
AU HORBOT		1	(30.001)	-	(10.6/%)
TOMACITI	۰	ص	(100.00%)	9	(100.00%)
LAJOLLA	24	9	(25.00%)	£	(20,83%)
MEMPHIS	46	37	(80.43%)	3	(78 268)
MINNEAPO	69	99	(95,65%)	, n	(80,000)
NEWARK	7	, ~	(75,008)	, ((400.00)
PAWTIICK	<u>۔</u> بر	, <u>r</u>	(400.001)	4 6	(900.00)
THE COURT OF	7 6	7	(\$00.001)	J	٠
FITISBUR	17	21	•	18	(66.67%)
SEATTLE	m	m	(100.00%)	-	(33, 33%)
TUCSON	17	-1	(2.88%)	7	ď
UCDAVIS	38	37	(97.378)	27	
	+				
Totals	351	252	(71.798)	206	(58.69%)

* Number Due ** Number Conducted in Window = Members having a first semi-annual visit between 5.5 and 6.5 months after randomization

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 number of tablets remaining in the returned bottles and the length of the interval between visits. Changes to study medications can 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. - Medication Rates by Randomization Assignment presents adherence to study hormones by treatment arm and CC at the first semi-annual follow-up visit. In the placebo group, 94% of the prescribed tablets were consumed; for both the ERT and PERT groups, the average consumption rate was 95%. The small number of values available makes it unreasonable to draw any strong inference even for this early adherence point.

Four women have had a documented change in their study hormone prescription. These changes are listed in *Table 5.2. - Changes in HRT Medication*. In all cases except the one (involving a post-randomization hysterectomy), the clinic gynecologist was unblinded prior to changing the prescription. These changes are consistent with Protocol-defined treatment of symptoms. In two cases, the change was only to add short-term progestin to the randomized hormone assignment.

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.

Table 5.3. - Reports of Bleeding by Randomization Assignment presents the number of reports of bleeding (among women with uteri) by treatment arm and contact type. Nine women (eight PERT, one ERT) have reported bleeding at their first semi-annual visit; four PERT cases and one ERT case resulted in unblinding for management of this symptom. Among non-routine contacts, 4% of ERT and 8% of PERT are reporting bleeding problems. There have been no reports of bleeding among women on placebo. No data are yet available from the 6-week telephone contact.

5.3. Adverse Effects

There has been one adverse effect (deep vein thrombosis) reported in a 71 year old woman with a history of DVT associated with birth control pills and knee replacements. This woman had been randomized to PERT approximately six weeks prior to the event.

5.4. Unblinding

Unblinding to the HRT 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, 1994, 11 HRT participants' assignment had been unblinded. *Table 5.5. - HRT Unblindings*, provides a listing of all unblindings and relevant data. EPLC and PPLC are database variables indicating the estrogen placebo and the combined progestin plus estrogen placebo, respectively.

5.5. Laboratory Monitoring

Plans for specimen analyses to be used for monitoring purposes are currently under discussion among WHI Investigators. It is anticipated that the battery of tests to be applied to a 6% cohort of CT participants will be finalized shortly. Simultaneous analyses of baseline and year 1 samples in these women should begin by mid to late 1995. We anticipate that initial treatment group comparisons of these values will be available for our 1996 report.

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Avg 0.95 1.03 1.01 0.97 0.94 0.92 0.92 0.95 0.95 0.72 0.94 PLACEBO Members Avg 0.99 0.90 0.85 0.95 0.95 1.00 0.97 0.95 0.99 0.95 PERT Members Avg 0.99 $\frac{1.01}{0.62}$ 0.98 1.09 0.94 0.91 0.95 0.84 0.97 0.97 0.97 0.95 Members LAJOLLA MEMPHIS MINNEAPO NEWARK PAWTUCK PITTSBUR SEATTLE TUCSON BRIGHAM BUFFALO CHICAGO IOWACITY BIRMING BOWMAN ATLANTA UCDAVIS Clinic Total

Table 5.2. Changes in Dispensed Medications

Data As Of: 08/31/94

09/16/94 01:10

			Medic	dication Exceptions	Open Label	Open Label Dispensetions.
Member ID 16 10042 P	Medication at Randomization PERT	Medication Exception ERT	Effective Date	Exception Reason	Dispensation Date	Dispensed
21 10092 Y	ERT			symptoms; prescribed switch to ERT		•
21 10218 M	PERT	ERT	06/27/94	Participant will have hysterectomy	08/10/94 08/10/94	MP10mg MP10mg
25 10218 Q	PERT			6/29/94 - EMM.	08/30/94	MP10mg

09/19/94 01:37

Treatment	6 W.	6 Week Contact	; ; ;	Semi-Annual Visit	nal Visit		Non-Re	Non-Routine Contact	act
Arm ERT PERT Placebo	a Form 10 Bleeding		e :	Semi-Annual Visit	Bleeding 1	18.28	Number Randomized	Number Bleeding	3. 1. 2. 3. 3. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.

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E.	RPLC	ERT	SRT	ERT	PERT	PERT	PERT	PERT	PERT	PERT	PERT
Study	HRT	HRT	HRT	HRT	HRT	HRT	HRT	HRT	HRT	HRT	HRT
Reason for unblinding	pt seriously depressed; tearful; unable to get out or move around	To check for appropriate randomization	Abnormal bleeding	Excessive Bleeding	vaginal bleeding past 6 months	bleeding at 6 months	bleeding at 6 months	BLEEDING AT SIX MONTH VISIT	Severe breast tenderness, persistant (but not severe) bleeding.	has deep vain thrombosis which could be caused by HRT	PRIMARY CARB PHYSICIAN REQUEST - STROKE RIGHT EYE
PI Override	z	> -	z	z	>	>-	>	>-	z	z	>
Treat without unblinding	 	z	> -	>-	z	z	z	z	> -	> -	>-
GYN Consult	*	z	>•	>	>	>	>	> +	>	> -	×
Medical Reason	z	z	z	2	z	Z	×	z	Z	2	>
HRT adv Medical	z	z	z	2:	z	z	z	z	z	z	z
HRT adv	5 4	z	>	×	>	×	⊁	*	> -	>	z
Clinic	NEWARK	UCDAVIS	MEMPHIS	IOWACITY	PITTSBUR	MINNEAPO	HINNEAPO	MINNEAPO	CHICAGO	IONACITY	PANTUCK
Member 1D	26 10190 M	12/01/93 12/03/93 · 30 10056 U	02/03/94 06/28/94 24 10353 M	21 10092 Y	28 10043 P	01/11/94 07/15/94 25 10065 Y	25 10224 W	25 10218 0	02/01/94 05/31/94 16 10042 P	05/02/94 06/20/94 21 10198 P	07/28/94 08/30/94 23 10805 A
Umblind Date	04/25/94 05/31/94	12/03/93	06/28/94	02/10/94 06/13/94	12/02/93 07/14/94	07/15/94	07/15/94	07/28/94	05/31/94	06/20/94	08/30/94
Randomization Unblind Date Date	04/25/94	12/01/93	02/03/94	02/10/94	12/02/93	01/11/94	01/11/94 07/15/94	01/31/94 07/28/94	02/01/94	05/02/94	07/28/94

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6. Dietary Modification Status

6.1. Timeliness of Intervention

Because the Dietary Modification (DM) intervention is delivered in a group format, the first major hurdle in conducting the DM intervention is in assigning those women randomized in the Dietary Change (intervention) arm into an intervention group. Ideally, all women in the Dietary Change arm should start intervention sessions within 12 weeks of randomization. Women waiting 20 weeks or more must be classified as minimal participants and other remedial action must be taken. See WHI Manuals, Vol. 2 - Procedures, Section 6.10.6. - Levels of DM Intervention Participation for further details.

Tables 6.1. - Waiting Time for Start of Intervention Among DM Intervention Participants and 6.2. - DM Participants Awaiting Intervention Start-Up display the timeliness of initiating intervention by Clinical Center. Table 6.1. shows the length of time women waited between being randomized and starting intervention. Of the 1,455 women randomized to DM intervention, 781 have started intervention. Of the 781 women who have started intervention, 678 (86.8%) started within 12 weeks post-randomization. Table 6.2. shows the number of women waiting to start intervention. Of 1,455 DM participants randomized to the Dietary Change arm, 674 (46.3%) are awaiting group assignment and the start of intervention. Of the women awaiting intervention startup, 130 (19.3%) have been waiting 12 weeks or more and 62 (9.2%) have been waiting 16 weeks or more.

6.2. Adherence to the Intervention Program

Adherence to the DM intervention is assessed by attendance to group intervention sessions, and by self-monitoring reports of fat, fruit, vegetable, and grain scores. *Table 6.3. - Dietary Modification Session Adherence Summary* displays the study-wide reports of session attendance and completion (where completion equals group attendance plus make-up attendance), and the average of the self-monitoring scores by session.

Table 6.4. - Percent of Participants Completing Dietary Sessions displays session attendance for each Vanguard Clinical Center.

Attendance study-wide ranges from 97.8% at session 1 to 93.2% at session 7 to 90.4% at session 10 (*Table 6.3.*). Sessions move from weekly to biweekly at session 7 and from biweekly to monthly at session 10. Experience from the Women's Health Trial suggests that attendance will decline when the time interval between sessions becomes longer. Note that scores have not been recorded yet for session 10 pending a change in data recording procedures. This accounts for the low member count for scores at session 10.

The study-wide average fat gram score declined from 47.4 at session 2, when participants begin turning in their fat scores, to 26.8 at session 8 when participants are expected to have met their fat gram goals. Assigned fat gram goals range from 29-37, with 32-34 being most frequently assigned. Fat gram goals are individually defined in Vol. 1 - Study Protocol and Policies, Protocol Section 4.2.2. from participant height and baseline total energy intake. The CCC monitors fat scores at sessions 8, 12, and 16, with the expectation that participants should have attained their fat gram goals by session 8. Fat scores are collected and recorded

at each session beginning with session 3 so that participants and nutritionists can track progress toward the goal.

The study-wide average fruit/vegetable score was 5.6 servings at session 8 when participants begin turning in their fruit/vegetable scores. This score is already above the DM intervention goal of 5 fruit/vegetable servings daily. Data (member count for scores) are insufficient to evaluate beyond session 9. The CCC monitors fruit/vegetable scores at sessions 12 and 16, with the expectation that participants should have attained their fruit/vegetable goals by session 12. Participants turn in fruit/vegetable scores beginning with session 8 so that they and their nutritionists can track progress toward their goals.

The study-wide average grain score was 4.7 at session 8 when participants begin turning in their grain scores. This score is below the DM intervention goal of six servings daily. Data (member count for scores) are insufficient to evaluate beyond session 9. The CCC monitors grain scores at session 16, with the expectation that participants should have attained their grain goals by session 16. Participants turn in their grain scores beginning with session 8 so that they and their nutritionists can track progress toward their goals.

6.3. Number of Active Groups and Group Sizes

The number of active groups and group sizes are displayed in Table 6.5. - Number of DM Intervention Women Assigned to Diet Groups at Session 01. Seventy groups are active, i.e., participants have been assigned to a group. All VCCs have conducted at least one group through session 6. One VCC has conducted at least one group through session 13. No VCCs have conducted session 14 or beyond.

The recommended group size is 8-15 participants, with the ideal range being 10-12 participants. Groups that are too small may lead to staff overload. Groups that are too large lead potentially to poor group dynamics. Forty-four percent of the groups are in the ideal size range. One VCC has two groups that are smaller than the recommended size. One VCC has one group that is larger than the recommended size.

6.4. Comparison of Dietary Intake

Dietary intake in DM is assessed at baseline and post-randomization in both the Intervention and Comparison arms with three instruments: the FFQ, the 4DFR, and the 24 Hour Recall (24HR). Currently only baseline values of the FFQ are available.

6.5. Laboratory Monitoring of Adherence to Dietary Intervention Program

Plans for specimen analyses to be used for monitoring purposes are currently under discussion among WHI Investigators. It is anticipated that the battery of tests to be applied to a 6% cohort of CT participants will be finalized shortly. Simultaneous analyses of baseline and year 1 samples in these women should begin by mid to late 1995. We anticipate that initial treatment group comparisons of these values will be available for our 1996 report.

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Women's Health Initiative Waiting Time for Start of Intervention Among DM Intervention Participants By Clinical Center Table 6.1

				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		time from		ization	to inte	randomization to intervention	startup	dr	!
Clinic Name	Randomized to DM/INT	Intervention Started	Pct Total	< 4 Weeks	Pct Total	4-<8 Weeks	Pot	8-<12 Wooke	Pot	12-<16	Pet	16+	Pot
7	1111111		1 1				5		10101	NGGVB	TOLET	WOORB	Total
ATLANTA	89	24	25	¥	י בי		(L (f (
CNTMOTO	0 (, .		יפ	0.04	0	72.0	ע	37.5	~	œ ۳		4.2
PINTING	<u> </u>	31	32.0	9	19.4	12	38.7	9	19.4	•	0	•	
BOWMAN	06	41	45.6	11	26.8	14	1.4	1.0	200) r	, ,	* •	16.3
BRIGHAM	109	49	45.0	00	57.1	, r	1.70	4	, ,	~ c		٠,	7.4
BITFFALO	. ư	. 4		7			0.0	7	2.0	7	6.1	-	2.0
0010100	יים מיים	Ċ.		R.T	32.1	92	47.3	ø	10.9	~	3.6	~	ľ
CHICAGO		41	53.2	12	29.3	15	36.6	œ	٦.	~			
IOWACITY	83	21	25.3	4	19.0	r	23.8	ט נ	, c	,	. 00	7 •	. ·
LAJOULA	68	S. C.	61 R	σ	16.4	, 4		י ב	9.0	> (0.07	⊣ ;	5 7
MEMPHIS	101		22.0		# L	9 6	11.67	7T	21.8	•	12.7	11	20.0
MININGS	100			2 (43.0	97	37.7	00	11.6	m	4.3	~	2,9
HINESE C	C2T	9/	8.09	23	30.3	53	38.2	13	17.1	0	11.8	•	, ,
NEWAKK	64	37	57.8	13	35.1	11	29.7	6	24.3	, ~) V	1 -	10
PAWTUCK	66	75	75.8	14	18.7	24	32.0	24		•	, ,	1 6	
PITTSBUR	81	62	76.5	30	48.4	20	4 0	; 0	7.7.0	2) () (ኅ (.
SEATTLE	122	69	26.6			2 6) .) .	,		4 .	٠	-	٠ •
THUSON	2) r	4 1		2 (7	77	77.4	4	ν. 8	-	1.4
OHIECULI	0	n (15.0	7 1	33.3	m)	33.3	N	22.2	0	0.0	1	11.1
OCDANTS		/9	72.0	24	35.8	28	41.8	œ	11.9	ហ		8	0
	# () () () () () () () () () (1 1 1 1 1		1 0 0 0 0		111111			11000				
TOTALS	1455	781	53.7	253	32.4	278	35.6	147	18.8	64	8.5	36	4.6

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Data As Of: 08/31/94

Table 6.2
Women's Health Initiative
DM Participants Awaiting Intervention Startup
By Clinical Center

Pet Total	1	27 3) (13.2	4.1	26.7	10.0	27.8	22.5	7.17	20.6	6.0		7.	17:1	ω	v v	֓֞֜֜֜֜֝֜֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֓֓֓֓֡֓֜֝֓֡֓֡֓֡֓֡	2 C C	23.5	0.0		18.2
16+ Weeks	1 1 1 1	12	\$ C	7	2	16	4	101	7 -	`	_	~	ו ע	,	•	~	_	1 5	ħ,	77	0		123
Pet Total		18.2	10.0	77.7	26.5	26.7	20.0	19.4	21.0	10	٦٠.٥	14.7	T & L		1.11	25.0	15.8		9 0	27.6	ж 8		20.5
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Table 6.3 Dietary Modification Session Adherence Summary

Data As Of: 08/31/94

09/29/94 05:50

Scores Average Servings							6	 	•	•	90	•	•	•					4.6
d		> C	> C	,	•	> <	o a	200	200 200 200	1	. 45	13	•	· c	o c	· c	, c		169
Scores Average Servings							4	יני		0	6.7	'n		•					υ .α
		· c	· c	· c	• 0	0	· cc	300	225	4	26	17	٠,	0	0	0	0	0	169
Scores Average Grams	0.0	47.4	33.7	30.4	28.6	27.3	26.6	26.8	26.3	26.4	24.1	24.7	27.4	1					26.8
Member Count	1	43	534	595	514	451	370	310	231	4	26	17	7	0	0	0	0	0	169
Percent Complete	97.82	97.32	97.07	96.88	90.76	94.97	93.18	92.72	94.36	90.43	89.86	90.48	80.00	00.0	0.00	0.00	00.0	0.00	100.00
Completed Session	764	689	630	620	295	491	396	331	251	104	62	19	80	0	0	0	0	0	182
Attended Session	697	626	568	549	200	433	351	282	213	91	25	17	6 0	0	0	0	0	0	0
Members Evaluated	781	708	. 649	640	579	517	425	357	266	115	69	21	10	0	0	0	0	0	182
Members Assigned	810	759	710	667	618	579	539	494	324	232	133	29	10	0	0	0 (0 (0	324
Session ID	01	02	03		05	90	0.7	80	60	O ;	1 ·	77	I.S	Ժ ւ	17	10	17		is (individual)

09/30/94 07:54 Data as of: 08/31/94

Table 6.4
Percent of Participants Completing Dietary Sessions
By Clinical Center

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THE TRUMP TON	07		!	91,67	100.001	90.007		76.13	100.00	77.78	82.76	100	200	74.34	87.50	96.55	96.55	20.00	91	77.78	88.37
TARY TWO	90	1 1 1	83,33	88.89	95.24	100.001	20. VO		100.00	100.00	93.10	97.01	•	70.23	100.00	100.00	98.15			77.78	93.02
TO	05	1	100.00	100.00	93.33	100.00	96 36		100.00	100.00	96.55	100.00		70.40	95.45	92.86	96.36	92 AK		88.83	97.67
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1 1 1 1 1	03	1 1 1 1 1	100.00	88.89	100.00	100.00	96.36		100.00	100.00	96.15	95.65	100	00.00	100.00	98.00	92.98	95.24		80.00	97.01
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	07	1 1 1	100.00	87.10	95.00	100.00	100.00		700.00	100.00	98.11	98.51	00		100.00	95.24	95.08	97.62	000	700.00	97.01
	10		100.00	90.32	95.12	100.00	100.00	100	00.00T	100.00	94.55	100.00	100		100.00	94.67	100.00	92.75	100	700	100.00
Clinic	Name		ATLANTA	BIRMING	BOWMAN	BRIGHAM	BUFFALO	COKULTO	COTTU	IOWACITY	LAJOLLA	MEMPHIS	MINNEADO		NEWARK	PAWTUCK	PITTSBUR	SEATTLE	TITOSON	NOC O	UCDAVIS

09/29/94 05:53 Data as of: 08/31/94

Number of DM Intervention Women Assigned to Diet Groups at Session 01 By Clinical Center Table 6.5

Total Women Total Women Total Momen Total Women Total	Number of	8>	Pet	Number 8-9	of	Women Assigned : Pct 10-12	in Each Gre	Each Group At Session 01	sion 01		
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7. Outcomes

7.1. Overview

Outcomes are ascertained at all routine follow-up visits. Initial reports of clinical outcomes are obtained on Form 33 - Medical History Update or through routine procedures during the annual visit (e.g., mammography, endometrial aspirations, ECGs). Depending on the type, outcomes may be accepted based on self-report, or local and central adjudication may be required. WHI Manuals, Vol. 2 - Procedures, Section 17 - Outcomes for further details.

7.2. Initial Report of Outcomes

As of August 31, 1994, Form 33 - Medical History Update data were available for 312 women. Among these, 32 women reported hospitalizations since randomization. Self-reported new diagnoses included: heart/circulatory problems (n=2); cancer (n=1); stroke/TIA (n=1). In the future, we will tabulate initial reports of clinical outcomes by outcome type, study component, and treatment arm.

7.3. Confirmed Outcomes

No outcomes have been confirmed. Documentation and adjudication awaits implementation of outcomes procedures currently under development. In the future, we will tabulate confirmed clinical outcomes by outcome type, study component, and treatment arm, and make comparisons based on the proposed monitoring scheme, as appropriate.

8. Study Design and Power

CT power calculations were based on assumptions involving the accrual rate, 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, Protocol Section 2-3A) for more details. Table 8.1. - Design Assumptions and Current Estimates summarizes the observable quantities that we monitor. As noted in earlier sections, the data are not adequate yet to provide useful estimates of factors related to follow-up.

The lag in accrual and the under-recruitment of women aged 70-79 and of women with intact uteri have been presented and discussed among WHI Investigators. It is still anticipated that the original goals can be met. Current priorities are to address first the lag in recruitment on a clinic-by-clinic basis and then to work on subgroup goals, hopefully by January 1995.

Because the observed deviances from design parameters are believed to be correctable, the projected power of these studies has not been noticeably affected by deviances to date. We will present updated power calculations when indicated by any substantial deviation from current assumptions.

Table 8.1.
Design Assumptions and Current Estimates

		Destan	T 6 :5	
	<u>Parameter</u>	<u>Design</u> <u>Value</u>	HRT	stimate for <u>DM</u>
Accrual Rate	Average follow-up	8.92 yrs.	8.86 1	8.9 1
Baseline Characteristics	% randomized as			
Age	50-54	10%	16.1%	22.3%
	55-59	20%	23.6%	27.1%
	60-69	45%	46.7%	38.1%
	70-79	25%	13.5%	12.5%
Hysterectomy Status	Intact Uterus	70%	58%	
	Hysterectomized	30%	42%	
Loss to Follow-up/ Competing Risk	Event rate (%/year) CHD	2%	no data a	vailable
	All others	3%		ļ
Outcomes	Incidence Rates among Control Group			
Breast Cancer	(%/year)	0.355% 2	no data a	vailable
Colon Cancer		0.160% 2		
СНР		0.294% 2		ĺ
Hip Fractures		0.258% 2		

¹ Assumes monthly goals will be met in all remaining months and that deficits will be filled by September 1995.

² These values represent the expected incidence among control women during the early years of the study. Age effects and secular trends are incorporated in the design for selected outcomes.

Table 8.1. (Cont.)
Design Assumption and Current Estimates

Adherence	Parameter	Design	Value	Current Est	imate for
DM Intervention	% cal from fat	Intervention	Control	Intervention	Control
	Baseline	38	38	no data av	vailable
	Year 01	21.7	37.8		
	Year 02	22.6	37.2		
	Year 10	26	34		
HRT	% changing arms Active to Control				
	Year 1	6%	6		
	Years 2-10	3%/y			
	Control to Active				
	Years 1-5	1.5%/	year		
	Years 6-10	1%/y			

9. Ancillary Studies

The WHI Ancillary Study policy defines an ancillary study as an investigation which is not described in the WHI Protocol and involves additional data which are not collected as part of the routine WHI data set, or additional biologic specimens for analysis or storage. Separate informed consent must be obtained on all ancillary study participants. Every ancillary study is initially sent to the Design and Analysis Subcommittee for review. The purpose of the Design and Analysis Subcommittee review is to assure that the ancillary study does not unduly: (1) interfere with the objectives of WHI or complicate the interpretation of results; (2) result in unblinding the study interventions: (3) adversely affect participant burden or cooperation in the WHI; or (4) jeopardize the public image of the WHI. In particular, ancillary studies involving randomization assignments for CT women generally need to wait until completion of pertinent CT components before randomized treatment group comparisons can be done. The Executive Committee may also request the review and approval of the WHI Data and Safety Monitoring board. See WHI Manuals Vol. 1 - Study Protocol and Policies, Section 3.4. for a complete statement of the Ancillary Study policy.

Table 9.1 - WHI Ancillary Studies lists all proposals received by the Design and Analysis Subcommittee and the approval status as determined by that Subcommittee. No ancillary study has yet been referred to the DSMB for review.

Table 9.1. Ancillary Study Proposal Tracking

	1 (4/4))			
# <u>0</u>		Investigator	Initiating Clinical Center	D&A Approval	Total # of Participating	Study Population Sample Size	Sample Size
AS1	ADAPT	John Crouse	Вомтап Gray	Conditional	5	MO	
AS2	PLCO Cancer Screening Trial	Joel Weissfeld	Pittsburgh	Disapproved	-	SO	2,200
AS3	PLCO Offer to WHI-Partners	Joel Weissfeld	Pittsburgh	Conditional	2	Partners	
AS4	Clinical Prostate Cancer	Catarina Kiefe	Birmingham	Concept	2	DM Partners	
ASS	Explanations for the Development of Fat Distaste	Pamela Green	Seattle	Conditional	-	MO	160
AS6	Symptomatic Musculoskeletal Disease in Older Women	Susan Hughes	Chicago	Approved	-	SO	
AS7	HRT and Cardiovascular Morbidity and Mortality - Low Ankle/Arm BPI	Lewis Kuller	Pittsburgh	Approved	7	НЯТ	12,714
AS8	Partner's Health Study	Robert Langer	LaJolla	Approved	-	Partners	1,500
AS9	Osteoporosis and Oral Bone Loss	Cora E. Lewis	Birmingham /	Approved	-	SO	1,000
AS10	Urinary Estrogen Metabolites and Breast Cancer Risk	Elaine Meilahn	Pittsburgh	Conditional	4	DW	80,000
AS11	Validation and Exploration of Sleep and Mood Predictors	Daniel Kripke	LaJolla	Approved	-	SO	
AS12		Charles Mouton	Newark	Disapproved	-	Ct.	
	98 Of	Lewis Kuller	Pittsburgh	Pending a Vote	-	os	150
	High Density Lipoprotein Metabolism	Tamsen Bassford	Tucson	Conditional	-	CT & OS	200
		Jean Wactawski- R Wende	Buffalo	Conditional	-	CT & OS	2,000
AS16	Peripheral Vascular Disease		Chicago	Pending a Vote	7	OS, 65+ 5	5,500
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