#### National Cancer Advisory Board

# Biennial Review of Inclusion of Women and Minorities in Clinical Research

February 2015

# NIH Policy on Inclusion of Women and Minorities in Clinical Research

Why does NIH have this policy?

• Mandated by Congress in 1993, Public Law 103-43.

• Ethical principle of justice and importance of balancing research burdens and benefits.

#### Public Law PL 103-43

- Women and minorities <u>must</u> be included in all clinical research studies.
- Women and minorities <u>must</u> be included in Phase III clinical trials, and the trial must be designed to permit valid analysis.
  - For the purpose of this policy, <u>Valid Analysis</u> means an unbiased assessment that does not require high statistical power and should be conducted for both large and small studies.

#### Public Law PL 103-43

• Cost is <u>not</u> allowed as an acceptable reason for exclusion.

• NIH supports outreach efforts to recruit and retain women, minorities, and their subpopulations in clinical studies.

#### NIH Revitalization Act of 1993

"The Advisory Council of each National Institute shall prepare biennial reports describing the manner in which the institute has complied with this section."

• Reported in odd-numbered years.

### NIH Report Approach

A summary report is prepared centrally by the NIH Office of Extramural Research and includes a statement that the NCAB reviews.

- NCI procedures for implementation of the NIH policy for inclusion of women and minorities in clinical studies.
- The results of that implementation.
- NCI compliance.

# NCI Coordination Division of Extramural Activities

Implements Inclusion Policy at NCI

- Institute-wide coordination and communication
- Accrual Working Group –Division Reps
- Information, Training, Problem Solving

#### **POLICY DISSEMINATION**

- ESAs work with applicants to disseminate requirements (NIH Guide and NCI and NIH Websites).
- NCI extramural staff are kept up-to-date via trans-NIH education programs and desktop distribution of policies and procedures.

#### PRE-AWARD ACTIVITIES

- Peer reviewers receive instruction on policies and evaluate inclusion plans.
- Where concerns are noted, bars to award are put in place. NCI staff work with applicants to ensure appropriate revisions are made.
- Applications with bars are identified in a closed NCAB session, and a subsequent resolution is reported.

#### POST-AWARD MONITORING

- Awardees report cumulative accrual annually.
- Progress of studies and cumulative accruals are reviewed by Program Directors.
- Target and enrollment numbers are entered into the NIH Population Tracking application.
- Staff provide oversight, advice, and assistance and work with awardees to disseminate findings and encourage new studies.

#### AGGREGATE REPORTING

- NIH requires a format that aggregates all clinical trials whether treatment, behavioral, or epidemiologic observation.
  - Individual clinical trials vary considerably.
  - Large population-based screening trials dominate aggregate data.

#### Instructions in PHS 398

Inclusion of women and minorities sections must include:

- Subject selection criteria and rationale.
- Rationale for any exclusions.
- Enrollment dates (start and end).
- Outreach plans for recruitment.
- Proposed composition using tables.

#### Accrual to NCI Clinical Trials

- Data include epidemiological, population-based interventions and therapeutic trials according to the NIH definition of clinical research.
- Subset analyses by race, ethnicity, and sex/gender are required of all Phase III clinical trials with initial funding after 1995.
- Current reporting cycle covers data reported in FY2013 and 2014, which represents subjects enrolled in FY2012 and 2013.

# Requirements for NIH-Defined Phase III Clinical Trials

Definition: Broadly based prospective Phase III clinical investigation,

- usually involving several hundred or more human subjects,
- for the purpose of evaluating an experimental intervention or comparing two or more existing treatments.
- Often the aim of such investigation is to provide evidence leading to a scientific basis for consideration of a change in health policy or standard of care.

#### US Incidence for All Cancers 2007-2011

	White	Black	Asian/ PI	American Indian	Total (All Races/ Sexes)	Hispanic **
Incidence Rate per 100,000*	468.9	480.8	306.7	319.3	460.4	353.2
Number of Incidence Cases	1,628,476	208,379	121,493	7,934	2,001,481	190,832
Estimated Percent of Total*	81.4%	10.4%	6.1%	0.4%	100%	9.5%

<sup>\*</sup>US Cancer Percent estimated from SEER Number of Incidence Cases for 2007-2011.

<sup>\*\*</sup>Hispanic incidence included in other categories.

#### NCI Enrollment for FY 2013 and 2014 Extramural Research Studies by Sex/Gender

20132,033 Studies

Sex/Gender	Enrolled	Percent	US Cancer Incidence*
Female	2,677,294	56.34%	48.3%
Male	2,067,444	43.51%	51.7%
Unknown	7,156	0.15%	
Total	4,751,894	100%	100%
Sex/Gender	Enrolled	Percent	US Cancer

20141837 Studies

Total	4,751,894	100%	100%
Sex/Gender	Enrolled	Percent	US Cancer Incidence*
Female	3,017,336	68.6%	48.3%
Male	1,151,814	26.2%	51.7%
Unknown	229,040	5.2%	
Total	4,398,190	100%	100%

<sup>\*</sup>US Cancer Incidence estimated from SEER Number of Incidence Cases for 2007-2011

# NCI Sex/Gender Enrollments FY 2013 and 2014 excluding All Male and All Female Studies

2013 -1424 Studies

2014 -1318 Studies

Sex/ Gender	Enrollment	Percent of Total	US Cancer Incidence*
Female	1,435,030	57.8%	48.3%
Male	1,041,138	41.9%	51.7%
Other/Unknown	7,156	0.3%	
Total	2,483,324	100%	100%
Sex/ Gender	Enrollment	Percent of Total	US Cancer Incidence*
Female	1,431,549	56.0%	48.3%
Male	881,103	35.0%	51.7%
Other/Unknown	229,040	9.0%	
Total	2,541,692	100%	100%

Subset of studies reported for 2013 and 2014; Studies include both Males and Females.

<sup>\*</sup>US Cancer Incidence estimated from SEER Number of Incidence Cases for 2007-2011.

NCI Extramural Research Studies by Race/Ethnicity FY 2013 – 2,033 Studies FY 2014 – 1,837 Studies

Race/Ethnicity	2013	2013	2014	2014	US Cancer
	Count	Percent	Count	Percent	Incidence**
White	3,240,056	68.18%	2,950,325	67.08%	81.4%
Asian	562,949	11.85%	567,709	12.91%	6.1%
Black or African American	480,777	10.12%	435,433	9.90%	10.4%
Hispanic or Latino*	(380,587)	(8.01%)	(314,478)	(7.15%)	(9.5%)
Unknown/Not Reported	380,562	8.0%	350,291	7.96%	
More Than One Race	49,410	1.04%	54,120	1.23%	
Native Hawaiian/ Pacific Islander	20,413	0.43%	22,330	0.51%	
American Indian/ Alaska Native	17,727	0.37%	17,982	0.41%	0.4%
Total	4,751,894	100%	4,398,190	100%	100%

<sup>\*</sup>Hispanic or Latino counts are not exclusive and may be included in other categories.

<sup>\*\*</sup>US Cancer Incidence estimated from SEER Number of Incidence Cases for 2007-2011.

#### FY 2013 and 2014 NCI Enrollment Extramural Phase III Research Studies (Only) by Sex/Gender

FY 2013 222 Trials

Sex/Gender	Count	Percent of Total	US Cancer Incidence*
Female	72,270	56.92%	48.3%
Male	54,649	43.04%	51.7%
Unknown	47	0.04%	
Total	126,966	100%	100%
Sex/Gender	Count	Percent of Total	US Cancer Incidence*
Sex/Gender Female	Count 63,366	Percent of Total 57.5%	
			Incidence*
Female	63,366	57.5%	Incidence* 48.3%

FY 2014 181 Trials

<sup>\*</sup>US Cancer Incidence estimated from SEER Number of Incidence Cases for 2007-2011.

#### NCI Extramural Phase III Research Studies (Only)

FY 2013 – 222 Studies

FY 2014 – 181 Studies

Race/Ethnicity	2013 Count	2013 Percent	2014 Count	2014 Percent	US Cancer Incidence**
White	95,637	75.32%	80,578	73.12%	81.4%
Black or African American	16,033	12.63%	14,194	12.88%	10.4%
Asian	9,738	7.67%	9,730	8.83%	6.1%
Hispanic or Latino*	(7,408)	(5.83%)	(7,491)	(6.8%)	(9.5%)
Unknown/Not Reported	3,970	3.13%	4,255	3.86%	
<b>More Than One Race</b>	778	0.61%	709	0.64%	
Amer. Indian/Alaska Native	554	0.44%	503	0.46%	0.4%
Hawaiian/Pacific Islander	256	0.2%	237	0.22%	
Total	126,966	100%	110,206	100%	100%

<sup>\*</sup>Hispanic or Latino counts are not exclusive and may be included in other categories.

<sup>\*\*</sup>US Cancer Incidence estimated from SEER Number of Incidence Cases for 2007-2011.

## NCI Intramural Research Studies

FY 2013–587 Studies

FY 2014 – 588 Studies

Race/Ethnicity	2013 Count	2013 Percent	2014 Count	2014 Percent	US Cancer Incidence**
White	1,709,117	46.1%	1,330,173	43.8%	81.4%
Black or African American	249,223	6.7%	98,582	3.2%	10.4%
Asian	210,372	5.7%	211,863	7.0%	6.1%
Hispanic or Latino*	(121,900)	(3.3%)	(93,595)	(3.1%)	(9.5%)
American Indian/ Alaska Native	7,392	0.2%	4,702	0.2%	0.4%
Hawaiian/Pacific Islander	2,804	0.1%	2,824	0.1%	
<b>More Than One Race</b>	2,323	0.1%	2,101	0.1%	
Unknown/Not Reported	1,523,319	41.1%	1,388,881	45.7%	
Total	3,704,550	100%	3,039,126	100%	100%

<sup>\*</sup>Hispanic or Latino counts are not exclusive and may be included in other categories.

<sup>\*\*</sup>US Cancer Incidence estimated from SEER Number of Incidence Cases for 2007-2011.

#### **CTEP Treatment Trials Enrollment**

FY 2013 – 466 Studies

FY 2014 – 392 Studies

Race/Ethnicity	2013 Count	2013 Percent	2014 Count	2014 Percent	US Cancer Incidence**
White	19,717	82.02%	16,074	81.01%	81.4%
Hispanic or Latino*	(2,232)	(9.28%)	(1,794)	(9.04%)	(9.5%)
Black or African American	2,021	8.41%	1,688	8.51%	10.4%
Unknown/ Not Reported	1,099	4.57%	979	4.93%	
Asian	941	3.91%	909	4.58%	6.1%
American Indian/ Alaska Native	123	0.51%	107	0.54%	0.4%
Native Hawaiian/ Pacific Islander	85	0.35%	55	0.28%	
<b>More Than One Race</b>	53	0.22%	29	0.15%	
Total	24,039	100%	19,841	100%	100%

<sup>\*</sup>Hispanic or Latino counts are not exclusive and may be included in other categories.

<sup>\*\*</sup>US Cancer Incidence estimated from SEER Number of Incidence Cases for 2007-2011.

#### CTEP Treatment Trials Enrollment by Gender

FY 2013

**466 Studies** 

**FY 2014 392 Studies** 

Sex/Gender	Count	Percent of Total	US Cancer Incidence*
Female	14,479	60.23%	48.3%
Male	9,539	39.68%	51.7%
Unknown	21	0.09%	
Total	24,039	100%	100%
Sex/Gender	Count	Percent of Total	US Cancer Incidence*
Female	11,102	55.95%	48.3%
Male	8,731	44.00%	51.7%
Unknown	8	0.04%	
Total	19,841	100%	100%

<sup>\*</sup>US Cancer Incidence estimated from SEER Number of Incidence Cases for 2007-2011.

## CTEP Treatment Trials Enrollment by Gender (excluding Gender Specific Trials)

**FY 2013 357 Studies** 

**FY 2014 315 Studies** 

Sex/Gender	2013	Percent of	<b>US Cancer</b>
	Count	Total	Incidence*
Male	8,051	56.06%	48.3%
Female	6,299	43.79%	51.7%
Unknown	21	0.15%	
Total	14,371	100%	100%
Sex/Gender	2014	Percent of	<b>US Cancer</b>
	Count	Total	Incidence*
Male	7,147	58.69%	48.3%
Female	5,024	41.26%	51.7%
Unknown	6	0.05%	
Total	12,177	100%	100%

Subset of studies reported for 2013 and 2014; Studies include both Males and Females.

<sup>\*</sup> US Cancer Incidence estimated from SEER Number of Incidence Cases for 2007-2011.

#### **DCP Trials Enrollment**

2013 – 60 Studies 2014 – 60 Studies

Race/Ethnicity	2013 Count	2013 Percent	2014 Count	2014 Percent	US Cancer Incidence**
White	7,755	84.1%	5,159	82.5%	81.4%
Black or African American	906	9.8%	574	9.2%	10.4%
Hispanic or Latino*	(662)	(7.2%)	(449)	(7.2%)	(9.5%)
Asian	263	2.9%	232	3.7%	6.1%
Unknown/ Not Reported	181	2.0%	209	3.3%	
American Indian/ Alaska Native	48	0.5%	48	0.8%	0.4%
Native Hawaiian/ Pacific Islander	22	0.2%	9	0.1%	
<b>More Than One Race</b>	42	0.5%	24	0.4%	
Total	9,217	100%	6,255	100%	100%

<sup>\*</sup>Hispanic or Latino counts are not exclusive and may be included in other categories.

<sup>\*\*</sup> US Cancer Incidence estimated from SEER Number of Incidence Cases for 2007-2011.

#### DCP Trials Enrollment by Gender

FY 2013

**60 Studies** 

**FY 2014 60 Studies** 

Sex/Gender	Count	Percent of Total	US Cancer Incidence*
Female	6,186	67.1%	48.3%
Male	3,031	32.9%	51.7%
Unknown	0	0%	
Total	9,217	100%	100%
Sex/Gender	Count	Percent of Total	US Cancer Incidence*
Female	4,689	75.0%	48.3%
Male	1,566	25.0%	51.7%
Unknown	0	0%	
Total	6,255	100%	100%

<sup>\*</sup> US Cancer Incidence estimated from SEER Number of Incidence Cases for 2007-2011.

#### DCP Trials Enrollment by Gender

(excluding Gender Specific Trials)

**FY 2013** 

**32 Studies** 

FY 2014
33 Studies

Sex/Gender	Count	Percent of	<b>US Cancer</b>
		Total	Incidence*
Female	2,518	74.0%	48.3%
Male	886	26.0%	51.7%
Unknown	0	0%	
Total	3,404	100%	100%
Sex/Gender	Count	Percent of	US Cancer
		Total	Incidence*
Female	1,560	53.9%	48.3%
Male	1,336	46.1%	51.7%
Unknown	0	0%	
Total	2,896	100%	100%

Subset of studies reported for 2013 and 2014; Studies include both Males and Females.

<sup>\*</sup> US Cancer Incidence estimated from SEER Number of Incidence Cases for 2007-2011.

#### DCCPS Epidemiology Studies by Gender

**FY 2013 369 Studies** 

FY 2014

**354 Studies** 

Sex/Gender	Count	Percent of Total	US Cancer Incidence*
Female	2,136,223	58.3%	48.3%
Male	1,522,453	41.6%	51.7%
Unknown	3,519	0.1%	
Total	3,662,195	100%	100%
Sex/Gender	Count**	Percent of Total	US Cancer Incidence*
Female	8,253,016	59.2%	48.3%
Male	4,993,379	35.8%	51.7%
Unknown	693,192	5.0%	
Total	13,939,587	100%	100%

<sup>\*</sup>US Cancer Incidence estimated from SEER Number of Incidence Cases for 2007-2011.

<sup>\*\*</sup>SEER and Medicare pre-existing Data.

#### **DCCPS Epidemiology Studies**

2013 – 369 Studies

2014 - 354 Studies

Race/Ethnicity	2013 Count	2013 Percent	2014 Count***	2014 Percent	US Cancer Incidence**
White	2,451,743	66.9%	10,512,922	75.4%	81.4%
Black or African American	372,180	10.2%	1,302,240	9.3%	10.4%
Hispanic or Latino*	231,889	(6.3%)	(913,117)	(6.6%)	(9.5%)
Asian	468,370	12.8%	905,952	6.5%	6.1%
Unknown/ Not Reported	326,912	8.9%	900,332	6.5%	
American Indian/ Alaska Native	13,471	0.4%	61,008	0.5%	0.4%
Native Hawaiian/ Pacific Islander	3,795	0.1%	63,854	0.5%	
More Than One Race	25,724	0.7%	193,279	1.4%	
Total	3,662,195	100%	13,939,587	100%	100%

<sup>\*</sup>Hispanic or Latino counts are not exclusive and may be included in other categories.

<sup>\*\*</sup> US Cancer Incidence estimated from SEER Number of Incidence Cases for 2007-2011.

<sup>\*\*\*</sup>Observational Study with increased years reported.

#### NCI Population Tracking Accrual Working Group

- Division of Extramural Activities
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  - Jennifer Strasburger
- Division of Cancer Control and Population Sciences
  - Mark Alexander
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