

AMENDMENT NO. \_\_\_\_\_ Calendar No. \_\_\_\_\_

Purpose: In the nature of a substitute.

**IN THE SENATE OF THE UNITED STATES—114th Cong., 2d Sess.**

**(no.)** \_\_\_\_\_

To amend the Public Health Service Act to promote the inclusion of minorities in clinical research, and for other purposes.

Referred to the Committee on \_\_\_\_\_ and  
ordered to be printed

Ordered to lie on the table and to be printed

AMENDMENT IN THE NATURE OF A SUBSTITUTE intended to be proposed by Ms. COLLINS (for herself, Ms. WARREN, Mr. KIRK, Ms. BALDWIN, Mr. ALEXANDER, and Mrs. MURRAY)

Viz:

1 Strike all after the enacting clause and insert the fol-  
2 lowing:

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Advancing NIH Stra-  
5 tegic Planning and Representation in Medical Research  
6 Act”.

7 **SEC. 2. NIH STRATEGIC PLAN.**

8 (a) STRATEGIC PLAN.—Section 402 of the Public  
9 Health Service Act (42 U.S.C. 282) is amended—

1           (1) in subsection (b)(5), by inserting before the  
2           semicolon the following: “, and through the develop-  
3           ment, implementation, and updating of the strategic  
4           plan developed under subsection (m)”]; and

5           (2) by adding at the end the following:

6           “(m) NIH STRATEGIC PLAN.—

7           “(1) IN GENERAL.—Not later than 2 years  
8           after the date of enactment of the Advancing NIH  
9           Strategic Planning and Representation in Medical  
10          Research Act, and once every 6 years thereafter, the  
11          Director of NIH, in consultation with the directors  
12          of the national research institutes and national cen-  
13          ters, shall develop and submit to the appropriate  
14          committees of Congress and post on the Internet  
15          website of the National Institutes of Health, a 6-  
16          year coordinated strategy (to be known as the ‘NIH  
17          Strategic Plan’) to provide direction to the bio-  
18          medical research investments made by the National  
19          Institutes of Health, to facilitate collaboration across  
20          the institutes and centers, to leverage scientific op-  
21          portunity, and to advance biomedicine.

22          “(2) REQUIREMENTS.—The strategy under  
23          paragraph (1) shall—

1           “(A) identify strategic research priorities  
2           and objectives across biomedical research, in-  
3           cluding—

4                   “(i) an assessment of the state of bio-  
5                   medical and behavioral research, including  
6                   areas of opportunity with respect to basic,  
7                   clinical, and translational research;

8                   “(ii) priorities and objectives to ad-  
9                   vance the treatment, cure, and prevention  
10                  of health conditions;

11                  “(iii) emerging scientific opportuni-  
12                  ties, rising public health challenges, and  
13                  scientific knowledge gaps; and

14                  “(iv) the identification of near-, mid-  
15                  , and long-term scientific needs;

16           “(B) consider, in carrying out subpara-  
17           graph (A)—

18                   “(i) disease burden in the United  
19                   States;

20                   “(ii) rare diseases and conditions;

21                   “(iii) biological, social, and other de-  
22                   terminants of health that contribute to  
23                   health disparities; and

24                   “(iv) other factors the Director of  
25                   NIH determines appropriate;

1           “(C) include multi-institute priorities, in-  
2           cluding coordination of research among insti-  
3           tutes and centers;

4           “(D) include strategic priorities for fund-  
5           ing research through the Common Fund, in ac-  
6           cordance with section 402A(c)(1)(C));

7           “(E) address the agency’s proposed and  
8           ongoing activities related to training and the  
9           biomedical workforce; and

10           “(F) describe opportunities for collabora-  
11           tion with other agencies and departments, as  
12           appropriate.

13           “(3) USE OF PLANS.—Strategic plans developed  
14           and updated by the national research institutes and  
15           national centers of the National Institutes of Health  
16           shall be prepared regularly and in such a manner  
17           that such plans will be informed by the strategic  
18           plans developed and updated under this sub-  
19           section.”.

20           (b)           CONFORMING           AMENDMENT.—Section  
21           402A(c)(1)(C) of the Public Health Service Act (42  
22           U.S.C. 282a(c)(1)(C)) is amended by striking “Not later  
23           than June 1, 2007, and every 2 years thereafter,” and  
24           inserting “As part of the NIH Strategic Plan required  
25           under section 402(m),”.

1 **SEC. 3. COLLABORATION TO ENHANCE DIVERSITY IN CLIN-**  
2 **ICAL RESEARCH.**

3 Section 402(b) of the Public Health Service Act (42  
4 U.S.C. 282(b)) is amended—

5 (1) by amending paragraph (4) to read as fol-  
6 lows:

7 “(4) shall assemble accurate data to be used to  
8 assess research priorities, including—

9 “(A) information to better evaluate sci-  
10 entific opportunity, public health burdens, and  
11 progress in reducing health disparities; and

12 “(B) data on study populations of clinical  
13 research, funded by or conducted at each na-  
14 tional research institute and national center,  
15 which—

16 “(i) specifies the inclusion of—

17 “(I) women;

18 “(II) members of minority  
19 groups;

20 “(III) relevant age categories;

21 and

22 “(IV) other demographic vari-  
23 ables determined to be necessary by  
24 the Director of NIH;

25 “(ii) is disaggregated by research  
26 area, condition, and disease categories; and

1                   “(iii) is to be made publicly available  
2                   on the Internet website of the National In-  
3                   stitutes of Health;”; and

4                   (2) in paragraph (8)—

5                   (A) in subparagraph (A), by striking  
6                   “and” at the end; and

7                   (B) by adding at the end the following:

8                   “(C) foster collaboration between clinical  
9                   research projects funded by the respective na-  
10                  tional research institutes and national centers  
11                  that—

12                  “(i) conduct research involving human  
13                  subjects; and

14                  “(ii) collect similar data; and

15                  “(D) encourage the collaboration described  
16                  in subparagraph (C) to—

17                  “(i) allow for an increase in the num-  
18                  ber of subjects studied; and

19                  “(ii) utilize diverse study populations,  
20                  with special consideration to biological, so-  
21                  cial, and other determinants of health that  
22                  contribute to health disparities;”.

1 **SEC. 4. PROMOTING INCLUSION IN CLINICAL RESEARCH.**

2 (a) STRATEGIC PLAN.—Section 492B(a) of the Pub-  
3 lic Health Service Act (42 U.S.C. 289a–2(a)) is amended  
4 by adding at the end the following:

5 “(3) STRATEGIC PLANNING.—

6 “(A) IN GENERAL.—The directors of the  
7 national institutes and national centers shall  
8 consult at least once annually with the Director  
9 of the National Institute on Minority Health  
10 and Health Disparities and the Director of the  
11 Office of Research on Women’s Health regard-  
12 ing objectives of the national institutes and na-  
13 tional centers to ensure that future activities by  
14 such institutes and centers take into account  
15 women and minorities and are focused on re-  
16 ducing health disparities.

17 “(B) STRATEGIC PLANS.—Any strategic  
18 plan issued by a national institute or national  
19 center shall include details on the objectives de-  
20 scribed in subparagraph (A).”.

21 (b) CLARIFICATION OF REQUIREMENTS.—Section  
22 492B(c) of the Public Health Service Act (42 U.S.C.  
23 289a–2(c)) is amended—

24 (1) by striking “In the case” and inserting the  
25 following:

26 “(1) IN GENERAL.—In the case”; and

1 (2) by adding at the end the following:

2 “(2) REPORTING REQUIREMENTS.—

3 “(A) IN GENERAL.—For an applicable clin-  
4 ical trial as defined in section 402(j) that is  
5 conducted or funded by the National Institutes  
6 of Health, the results of any valid analysis de-  
7 scribed in paragraph (1) shall be submitted to  
8 the clinical trial registry data bank created  
9 under subsections (i) and (j) of section 402,  
10 and the Director of NIH shall encourage, as  
11 appropriate, the reporting of such analysis  
12 through any additional means determined ap-  
13 propriate by the Director.

14 “(B) ENSURING REPORTING.—For any  
15 new and competing project of clinical research  
16 subject to the requirements under this section  
17 that receives a grant award beginning not less  
18 than 1 year after the date of enactment of the  
19 Advancing NIH Strategic Planning and Rep-  
20 resentation in Medical Research Act for which  
21 a valid analysis is provided under paragraph (1)  
22 and which is an applicable clinical trial as de-  
23 fined in section 402(j)—

24 “(i) the entity conducting such clinical  
25 research shall report the results of such



1 valid analysis to the clinical trial registry  
2 data bank expanded under 402(j)(3);

3 “(ii) the Director of NIH shall, as ap-  
4 propriate, consider whether such entity has  
5 complied with the reporting requirement  
6 described in clause (i) in awarding any fu-  
7 ture grant to such entity, including pursu-  
8 ant to section 402(j)(5)(A)(ii) when appli-  
9 cable; and

10 “(iii) the Director of NIH shall en-  
11 courage the reporting of the results of such  
12 valid analysis through any additional  
13 means determined appropriate by the Di-  
14 rector.”.

15 (c) REPORTING.—Section 492B(f) of the Public  
16 Health Service Act (42 U.S.C. 289a–2(f)) is amended—

17 (1) by striking “biennial” each place such term  
18 appears and inserting “triennial” in each such place;

19 (2) by striking “The advisory council” and in-  
20 serting the following:

21 “(1) IN GENERAL.—The advisory council”; and

22 (3) by adding at the end the following:

23 “(2) CONTENTS.—Each triennial report pre-  
24 pared by an advisory council of each national re-

1 search institute as described in paragraph (1) shall  
2 include each of the following:

3 “(A) The number of women included as  
4 subjects, and the proportion of subjects that are  
5 women, in any project of clinical research con-  
6 ducted during the applicable reporting period,  
7 disaggregated by categories of research area,  
8 condition, or disease, and accounting for single-  
9 sex studies.

10 “(B) The number of members of minority  
11 groups included as subjects, and the proportion  
12 of subjects that are members of minority  
13 groups, in any project of clinical research con-  
14 ducted during the applicable reporting period,  
15 disaggregated by categories of research area,  
16 condition, or disease and accounting for single-  
17 race and single-ethnicity studies.

18 “(C) For the applicable reporting period,  
19 the number of projects of clinical research that  
20 include women and members of minority groups  
21 and that—

22 “(i) have been completed during such  
23 reporting period; and

1                   “(ii) are being carried out during such  
2                   reporting period and have not been com-  
3                   pleted.

4                   “(D) The number of studies completed  
5                   during the applicable reporting period for which  
6                   reporting has been submitted in accordance  
7                   with subsection (c)(2)(A).”.

8           (d) COORDINATION.—Section 486(c)(2) of the Public  
9   Health Service Act (42 U.S.C. 287d(c)(2)) is amended by  
10 striking “designees” and inserting “senior-level staff des-  
11 ignees”.

12 **SEC. 5. IMPROVING RESEARCH RELATED TO SEXUAL AND**  
13 **GENDER MINORITY POPULATIONS.**

14           (a) IN GENERAL.—Part A of title IV of the Public  
15   Health Service Act (42 U.S.C. 281 et seq.) is amended  
16   by adding at the end the following:

17 **“SEC. 404M. RESEARCH RELATED TO SEXUAL AND GENDER**  
18 **MINORITY POPULATIONS.**

19           “The Director of NIH shall, as appropriate, encour-  
20   age efforts to improve research related to the health of  
21   sexual and gender minority populations, including by—

22                   “(1) facilitating increased participation of sex-  
23                   ual and gender minority populations in clinical re-  
24                   search supported by the National Institutes of

1 Health, and reporting on such participation, as ap-  
2 plicable;

3 “(2) facilitating the development of valid and  
4 reliable methods for research relevant to sexual and  
5 gender minority populations; and

6 “(3) addressing methodological challenges.”.

7 (b) REPORTING.—

8 (1) IN GENERAL.—The Secretary, in collabora-  
9 tion with the Director of the National Institutes of  
10 Health, shall as appropriate—

11 (A) continue to support research for the  
12 development of appropriate measures related to  
13 reporting health information about sexual and  
14 gender minority populations; and

15 (B) not later than 2 years after the date  
16 of enactment of this Act, disseminate and make  
17 public such measures.

18 (2) NATIONAL ACADEMY OF MEDICINE REC-  
19 OMMENDATIONS.—In developing the measures de-  
20 scribed in paragraph (1)(A), the Secretary shall take  
21 into account recommendations made by the National  
22 Academy of Medicine.

1 **SEC. 6. IMPROVING COORDINATION RELATED TO MINOR-**  
2 **ITY HEALTH AND HEALTH DISPARITIES.**

3 Section 464z–3 of the Public Health Service Act (42  
4 U.S.C. 285t) is amended—

5 (1) by redesignating subsection (h), relating to  
6 interagency coordination, that follows subsection (j)  
7 as subsection (k); and

8 (2) in subsection (k) (as so redesignated)—

9 (A) in the heading, by striking “INTER-  
10 AGENCY” and inserting “INTRA-NIH”;

11 (B) by striking “as the primary Federal  
12 officials” and inserting “as the primary Federal  
13 official”;

14 (C) by inserting a comma after “review”;

15 (D) by striking “Institutes and Centers of  
16 the National Institutes of Health” and inserting  
17 “national research institutes and national cen-  
18 ters”; and

19 (E) by adding at the end the following:  
20 “The Director of the Institute may foster part-  
21 nerships between the national research insti-  
22 tutes and national centers and may encourage  
23 the funding of collaborative research projects to  
24 achieve the goals of the National Institutes of  
25 Health that are related to minority health and  
26 health disparities.”.

1 **SEC. 7. ENHANCING THE RIGOR AND REPRODUCIBILITY OF**  
2 **SCIENTIFIC RESEARCH.**

3 (a) ESTABLISHMENT.—Not later than 1 year after  
4 the date of enactment of this Act, the Secretary of Health  
5 and Human Services, acting through the Director of the  
6 National Institutes of Health, shall convene a working  
7 group under the Advisory Committee to the Director of  
8 the National Institutes of Health, appointed under section  
9 222 of the Public Health Service Act (42 U.S.C. 217a),  
10 to develop and issue recommendations for a formal policy,  
11 which may incorporate or be informed by relevant existing  
12 and ongoing activities, to enhance rigor and reproduc-  
13 ibility of scientific research funded by the National Insti-  
14 tutes of Health.

15 (b) CONSIDERATIONS.—In developing and issuing the  
16 recommendations under subsection (a), the working group  
17 established under such subsection shall consider, as appro-  
18 priate—

19 (1) preclinical experiment design, including  
20 analysis of sex as a biological variable;

21 (2) clinical experiment design, including—

22 (A) the diversity of populations studied for  
23 clinical research, with respect to biological, so-  
24 cial, and other determinants of health that con-  
25 tribute to health disparities;

1 (B) the circumstances under which sum-  
2 mary information regarding biological, social,  
3 and other factors that contribute to health dis-  
4 parities should be reported; and

5 (C) the circumstances under which clinical  
6 studies, including clinical trials, should conduct  
7 an analysis of the data collected during the  
8 study on the basis of biological, social, and  
9 other factors that contribute to health dispari-  
10 ties;

11 (3) applicable levels of rigor in statistical meth-  
12 ods, methodology, and analysis;

13 (4) data and information sharing in accordance  
14 with applicable privacy laws and regulations; and

15 (5) any other matter determined relevant by the  
16 working group.

17 (c) POLICIES.—Not later than 18 months after the  
18 date of enactment of this Act, the Director of the National  
19 Institutes of Health shall consider the recommendations  
20 developed by the working group under subsection (a) and  
21 develop or update policies as appropriate.

22 (d) REPORT.—Not later than 2 years after the date  
23 of enactment of this Act, the Director of the National In-  
24 stitutes of Health, acting through the working group es-  
25 tablished under subsection (a), shall issue a report to the

1 Secretary of Health and Human Services, the Committee  
2 on Health, Education, Labor, and Pensions of the Senate,  
3 and the Committee on Energy and Commerce of the  
4 House of Representatives regarding recommendations de-  
5 veloped under such subsection and any subsequent policy  
6 changes implemented, to enhance rigor and reproducibility  
7 in scientific research funded by the National Institutes of  
8 Health.

9 (e) CONFIDENTIALITY.—Nothing in this section shall  
10 authorize the Secretary of Health and Human Services to  
11 disclose any information that is a trade secret, or other  
12 privileged or confidential information, described in section  
13 552(b)(4) of title 5, United States Code, or section 1905  
14 of title 18, United States Code.

15 **SEC. 8. TASK FORCE ON RESEARCH SPECIFIC TO PREG-**  
16 **NANT WOMEN AND LACTATING WOMEN.**

17 (a) TASK FORCE ON RESEARCH SPECIFIC TO PREG-  
18 NANT WOMEN AND LACTATING WOMEN.—

19 (1) ESTABLISHMENT.—Not later than 90 days  
20 after the date of enactment of this Act, the Sec-  
21 retary of Health and Human Services (referred to in  
22 this section as the “Secretary”) shall establish a  
23 task force, in accordance with the Federal Advisory  
24 Committee Act (5 U.S.C. App.), to be known as the  
25 “Task Force on Research Specific to Pregnant



1 Women and Lactating Women” (in this section re-  
2 ferred to as the “Task Force”).

3 (2) DUTIES.—The Task Force shall provide ad-  
4 vice and guidance to the Secretary regarding Fed-  
5 eral activities related to identifying and addressing  
6 gaps in knowledge and research regarding safe and  
7 effective therapies for pregnant women and lactating  
8 women, including the development of such therapies  
9 and the collaboration on and coordination of such  
10 activities.

11 (3) MEMBERSHIP.—

12 (A) FEDERAL MEMBERS.—The Task Force  
13 shall be composed of each of the following Fed-  
14 eral members, or the designee of such member:

15 (i) The Director of the Centers for  
16 Disease Control and Prevention.

17 (ii) The Director of the National In-  
18 stitutes of Health, the Director of the Eu-  
19 nice Kennedy Shriver National Institute of  
20 Child Health and Human Development,  
21 and the directors of such other appropriate  
22 national research institutes.

23 (iii) The Commissioner of Food and  
24 Drugs.

1 (iv) The Director of the Office on  
2 Women's Health.

3 (v) The Director of the National Vac-  
4 cine Program Office.

5 (vi) The head of any other research-  
6 related agency or department not described  
7 in clauses (i) through (v) that the Sec-  
8 retary determines appropriate, which may  
9 include the Department of Veterans Af-  
10 fairs and the Department of Defense.

11 (B) NON-FEDERAL MEMBERS.—The Task  
12 Force shall be composed of each of the fol-  
13 lowing non-Federal members, including—

14 (i) representatives from relevant med-  
15 ical societies with subject matter expertise  
16 on pregnant women, lactating women, or  
17 children;

18 (ii) nonprofit organizations with ex-  
19 pertise related to the health of women and  
20 children;

21 (iii) relevant industry representatives;  
22 and

23 (iv) other representatives, as appro-  
24 priate.

1 (C) LIMITATIONS.—The non-Federal mem-  
2 bers described in subparagraph (B) shall—

3 (i) compose not more than one-half,  
4 and not less than one-third, of the total  
5 membership of the Task Force; and

6 (ii) be appointed by the Secretary.

7 (4) TERMINATION.—

8 (A) IN GENERAL.—Subject to subpara-  
9 graph (B), the Task Force shall terminate on  
10 the date that is 2 years after the date on which  
11 the Task Force is established under paragraph  
12 (1).

13 (B) EXTENSION.—The Secretary may ex-  
14 tend the operation of the Task Force for one  
15 additional 2-year period following the 2-year pe-  
16 riod described in subparagraph (A), if the Sec-  
17 retary determines that the extension is appro-  
18 priate for carrying out the purpose of this sec-  
19 tion.

20 (5) MEETINGS.—The Task Force shall meet  
21 not less than 2 times each year and shall convene  
22 public meetings, as appropriate, to fulfill its duties  
23 under paragraph (2).

24 (6) TASK FORCE REPORT TO CONGRESS.—Not  
25 later than 18 months after the date on which the

1 Task Force is established under paragraph (1), the  
2 Task Force shall prepare and submit to the Sec-  
3 retary, the Committee on Health, Education, Labor,  
4 and Pensions of the Senate, and the Committee on  
5 Energy and Commerce of the House of Representa-  
6 tives a report that includes each of the following:

7 (A) A plan to identify and address gaps in  
8 knowledge and research regarding safe and ef-  
9 fective therapies for pregnant women and lac-  
10 tating women, including the development of  
11 such therapies.

12 (B) Ethical issues surrounding the inclu-  
13 sion of pregnant women and lactating women in  
14 clinical research.

15 (C) Effective communication strategies  
16 with health care providers and the public on in-  
17 formation relevant to pregnant women and lac-  
18 tating women.

19 (D) Identification of Federal activities, in-  
20 cluding—

21 (i) the state of research on pregnancy  
22 and lactation;

23 (ii) recommendations for the coordina-  
24 tion of, and collaboration on research re-

1                   lated to pregnant women and lactating  
2                   women;

3                   (iii) dissemination of research findings  
4                   and information relevant to pregnant  
5                   women and lactating women to providers  
6                   and the public; and

7                   (iv) existing Federal efforts and pro-  
8                   grams to improve the scientific under-  
9                   standing of the health impacts on pregnant  
10                  women, lactating women and, related birth  
11                  and pediatric outcomes, including with re-  
12                  spect           to           pharmacokinetics,  
13                  pharmacodynamics, and toxicities.

14                  (E) Recommendations to improve the de-  
15                  velopment of safe and effective therapies for  
16                  pregnant women and lactating women.

17                  (b) CONFIDENTIALITY.—Nothing in this section shall  
18                  authorize the Secretary of Health and Human Services to  
19                  disclose any information that is a trade secret, or other  
20                  privileged or confidential information, described in section  
21                  552(b)(4) of title 5, United States Code, or section 1905  
22                  of title 18, United States Code.

23                  (c) UPDATING PROTECTIONS FOR PREGNANT  
24                  WOMEN AND LACTATING WOMEN IN RESEARCH.—

1           (1) IN GENERAL.—Not later than 2 years after  
2 the date of enactment of this Act, the Secretary,  
3 considering any recommendations of the Task Force  
4 available at such time and in consultation with the  
5 heads of relevant agencies of the Department of  
6 Health and Human Services, shall, as appropriate,  
7 update regulations and guidance, as applicable, re-  
8 garding the inclusion of pregnant women and lac-  
9 tating women in clinical research.

10           (2) CRITERIA FOR EXCLUDING PREGNANT OR  
11 LACTATING WOMEN.—In updating any regulations or  
12 guidance described in paragraph (1), the Secretary  
13 shall consider any appropriate criteria to be used by  
14 institutional review boards and individuals reviewing  
15 grant proposals for excluding pregnant women or  
16 lactating women as a study population requiring ad-  
17 ditional protections from participating in human  
18 subject research.

19 **SEC. 9. WOMEN AND MINORITIES IN RESEARCH.**

20           (a) BASIC RESEARCH.—

21           (1) DEVELOPING POLICIES.—Not later than 2  
22 years after the date of enactment of this Act, the  
23 Director of the National Institutes of Health (re-  
24 ferred to in this section as the “Director of NIH”),  
25 taking into consideration the findings of the working

1 group established under section 7, shall develop poli-  
2 cies for projects of basic research funded by Na-  
3 tional Institutes of Health to assess—

4 (A) relevant biological variables including  
5 sex, as appropriate; and

6 (B) how differences between male and fe-  
7 male cells, tissues, or animals may be examined  
8 and analyzed.

9 (2) REVISING POLICIES.—The Director of NIH  
10 may update or revise the policies developed under  
11 paragraph (1) as appropriate.

12 (3) CONSULTATION AND OUTREACH.—In devel-  
13 oping, updating, or revising the policies under this  
14 section, the Director of NIH—

15 (A) shall consult with—

16 (i) the Office of Research on Women’s  
17 Health;

18 (ii) the Office of Laboratory Animal  
19 Welfare; and

20 (iii) appropriate members of the sci-  
21 entific and academic communities; and

22 (B) shall conduct outreach to solicit feed-  
23 back from members of the scientific and aca-  
24 demic communities on the influence of sex as a  
25 variable in basic research, including feedback on

1           when it is appropriate for projects of basic re-  
2           search involving cells, tissues, or animals to in-  
3           clude both male and female cells, tissues, or  
4           animals.

5           (4) ADDITIONAL REQUIREMENTS.—The Direc-  
6           tor of NIH shall—

7                   (A) ensure that projects of basic research  
8                   funded by the National Institutes of Health are  
9                   conducted in accordance with the policies devel-  
10                  oped, updated, or revised under this section, as  
11                  applicable; and

12                   (B) encourage that the results of such re-  
13                  search, when published or reported, be  
14                  disaggregated as appropriate with respect to  
15                  the analysis of any sex differences.

16          (b) CLINICAL RESEARCH.—

17                  (1) IN GENERAL.—Not later than 1 year after  
18                  the date of enactment of this Act, the Director of  
19                  NIH, in consultation with the Director of the Office  
20                  of Research on Women’s Health and the Director of  
21                  the National Institute on Minority Health and  
22                  Health Disparities, shall update the guidelines estab-  
23                  lished under section 492B(d) of Public Health Serv-  
24                  ice Act (42 U.S.C. 289a–2(d)) in accordance with  
25                  paragraph (2).



1           (2) REQUIREMENTS.—The updated guidelines  
2 described in paragraph (1) shall—

3           (A) reflect the science regarding sex dif-  
4 ferences;

5           (B) improve adherence to the requirements  
6 under section 492B of the Public Health Serv-  
7 ice Act (42 U.S.C. 289a–2), including the re-  
8 porting requirements under subsection (f) of  
9 such section; and

10          (C) clarify the circumstances under which  
11 studies should be designed to support the con-  
12 duct of analyses to detect significant differences  
13 in the intervention effect due to demographic  
14 factors related to section 492B of the Public  
15 Health Service Act, including in the absence of  
16 prior studies that demonstrate a difference in  
17 study outcomes on the basis of such factors and  
18 considering the effects of the absence of such  
19 analyses on the availability of data related to  
20 demographic differences.