111TH CONGRESS 1ST SESSION

S. 1548

To improve research, diagnosis, and treatment of musculoskeletal diseases, conditions, and injuries, to conduct a longitudinal study on aging, and for other purposes.

IN THE SENATE OF THE UNITED STATES

July 30, 2009

Mr. CARDIN (for himself and Mr. Burr) introduced the following bill; which was read twice and referred to the Committee on Health, Education, Labor, and Pensions

A BILL

- To improve research, diagnosis, and treatment of musculoskeletal diseases, conditions, and injuries, to conduct a longitudinal study on aging, and for other purposes.
 - 1 Be it enacted by the Senate and House of Representa-
 - 2 tives of the United States of America in Congress assembled,
 - 3 SECTION 1. SHORT TITLE.
 - 4 This Act may be cited as the "Access to America's
 - 5 Orthopaedic Services Act of 2009".
 - 6 SEC. 2. TABLE OF CONTENTS.
 - 7 The table of contents for this Act is as follows:

Sec. 1. Short title.

Sec. 2. Table of contents.

Sec. 3. Definition.

TITLE I—MUSCULOSKELETAL HEALTH
 Sec. 101. Findings. Sec. 102. Musculoskeletal research. Sec. 103. Musculoskeletal trauma research and care. Sec. 104. Transplants, tissues, and replacement joints. Sec. 105. Traffic and workplace safety. Sec. 106. Public education campaign. Sec. 107. Orthopaedic physician workforce training study. Sec. 108. Bone density under the Medicare program. Sec. 109. Access to orthopaedic services for beneficiaries of Medicaid and SCHIP. Sec. 110. Age-related programs. Sec. 111. Minority health disparities.
Sec. 201. Third longitudinal study on aging.
SEC. 3. DEFINITION.
In this Act, the term "Secretary" means the Sec-
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retary of Health and Human Services, except as otherwise
provided.
TITLE I—MUSCULOSKELETAL
HEALTH
SEC. 101. FINDINGS.
Congress makes the following findings:
(1) Musculoskeletal diseases and other condi-
tions are the leading cause of disability in the
United States.
(2) Musculoskeletal conditions account for more
than one-half of all chronic conditions in people over
50 years of age in developed countries.

(3) More than 1 in 4 individuals in the United

States has a musculoskeletal condition requiring

medical attention.

1	(4) Direct and indirect costs for bone and joint
2	health are \$849,000,000,000 per year in the United
3	States.
4	(5) Musculoskeletal conditions are the greatest
5	cause of total lost workdays and medical bed days in
6	the United States.
7	(6) The 2004 Surgeon General Report on Bone
8	Health and Osteoporosis concluded that there is a
9	lack of awareness of bone disease among the public
10	and health care professionals.
11	(7) Research demonstrates that there is need
12	among ethnic and racial minorities to improve
13	knowledge of and treatment for musculoskeletal dis-
14	eases and other conditions.
15	SEC. 102. MUSCULOSKELETAL RESEARCH.
16	(a) REGULATIONS CONCERNING REPORTING CRI-
17	TERIA FOR PERCENT OF EFFORT.—
18	(1) In General.—The Secretary, in consulta-
19	tion with the Director of the National Institutes of
20	Health, shall establish, by regulation, criteria for ac-
21	counting for and reporting the percent of effort ex-
22	pended by researchers, with respect to research that
23	is—
24	(A) conducted during each fiscal year be-
25	ginning after the last day of the second full fis-

1	cal year following the date of enactment of this
2	Act; and
3	(B) funded through research grants, on
4	musculoskeletal health, awarded by either the
5	Director of the National Institutes of Health or
6	the Director of the Agency for Healthcare Re-
7	search and Quality.
8	(2) Deadline for regulations.—Not later
9	than the last day of the 2-year period beginning on
10	the date of enactment of this Act, the Secretary
11	shall issue the regulations required by paragraph
12	(1).
13	(b) New Investigators in Musculoskeletal Re-
14	SEARCH.—
15	(1) Report.—Not later than 90 days after the
16	last day of each fiscal year that begins more than
17	1 year following the date of enactment of this Act,
18	the Secretary, in consultation with the Director of
19	the National Institutes of Health, shall prepare and
20	submit to Congress a report on each of the fol-
21	lowing:
22	(A) The number of new investigators who
23	are awarded grants for musculoskeletal health
24	research by the National Institutes of Health
25	during the fiscal year involved.

- 1 (B) The total amount of funds awarded to 2 those investigators through such grants during 3 the fiscal year.
 - (C) The percentage of the National Institutes of Health's budget for musculoskeletal health research that was awarded to those investigators through such grants during the fiscal year.
 - (D) The backgrounds of those investigators who are awarded such grants during the fiscal year, analyzed by race and ethnicity.
 - (E) A description of the efforts made by the Director of the National Institutes of Health to encourage individuals from underrepresented minority groups (as defined by the Secretary) to apply for grants for musculoskeletal health research awarded by the National Institutes of Health during the fiscal year.
 - (2) Recommendations.—The first report submitted under paragraph (1) shall include, and subsequent reports may include, recommendations concerning additional resources that the National Institutes of Health or other entities could use—

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1	(A) to increase the number of new inves-
2	tigators awarded grants referred to in para-
3	graph $(1)(A)$; and
4	(B) to increase the number of new inves-
5	tigators awarded such grants who are members
6	of underrepresented minority groups (as defined
7	by the Secretary).
8	(3) Definitions.—In this section:
9	(A) NEW INVESTIGATOR.—The term "new
10	investigator" has the meaning given the term
11	by the Secretary for purposes of administering
12	title III of the Public Health Service Act (42
13	U.S.C. 241 et seq.), but only with respect to
14	musculoskeletal health research.
15	(B) RACE; ETHNICITY.—The terms "race"
16	and "ethnicity" have the meanings given such
17	terms by the Office of Management and Budget
18	for purposes of Federal statistics and adminis-
19	trative reporting.
20	SEC. 103. MUSCULOSKELETAL TRAUMA RESEARCH AND
21	CARE.
22	(a) Musculoskeletal Trauma Research.—
23	(1) Report.—Not later than 2 years after the
24	date of enactment of this Act, the Secretary shall
25	prepare and submit to Congress a report on all pro-

1	grams and activities relating to musculoskeletal
2	trauma care that are being conducted by the Federal
3	Government or supported by funding made available
4	by Federal Government.
5	(2) Contents of Report.—Such report shall
6	include, at a minimum, each of the following:
7	(A) Information on the status of each Fed-
8	eral program and activity referred to in para-
9	graph (1), including specific information on any
10	research program and activity.
11	(B) Information on the methods being
12	used to coordinate research being conducted
13	under such Federal programs and activities and
14	the effectiveness of such methods.
15	(3) Consultation.—In preparing the report
16	under paragraph (1), the Secretary shall consult
17	with—
18	(A) the Secretary of Defense; and
19	(B) the heads of other Federal depart-
20	ments and agencies that administer programs
21	and activities relating to musculoskeletal trau-
22	ma care, as determined by the Secretary of
23	Health and Human Services.
24	(b) ORTHOPAEDIC TREATMENT THROUGH TRAUMA
25	Care Systems.—

- 1 (1) Study.—The Secretary shall conduct a 2 study on the impact of trauma care systems that 3 connect hospitals with other providers of musculo-4 skeletal health care services (including orthopedists). (2) Purposes of study.—The purposes of the 6 study under paragraph (1) shall include, at a min-7 imum, each of the following:
 - (A) An examination of the provision of acute and rehabilitative care to trauma patients with musculoskeletal injuries or other conditions.
 - An examination of epidemiological data on trauma patients with musculoskeletal injuries or other conditions, including the number of such patients, the number of such injuries and conditions, and the types of such injuries and conditions.
 - (C) An evaluation of the ability of a patient with an orthopaedic injury or other condition originating from musculoskeletal trauma to access specialty care relevant to that injury or condition.
 - (D) An examination of the impact of traurehabilitation care on musculoskeletal ma health and the ability of trauma patients with

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1	musculoskeletal injuries or other conditions to
2	access postacute rehabilitative services.
3	(3) Report.—Not later than 2 years after the
4	date of enactment of this Act, the Secretary shall
5	submit to Congress a report on the results of the
6	study conducted under paragraph (1), including rec-
7	ommendations for improving the treatment of trau-
8	ma patients with musculoskeletal injuries or other
9	conditions.
10	SEC. 104. TRANSPLANTS, TISSUES, AND REPLACEMENT
11	JOINTS.
12	(a) Transplantation Transmission Sentinel
13	Network.—Section 372(b)(2) of the Public Health Serv-
14	ice Act (42 U.S.C. 274(b)(2)) is amended—
15	(1) in subparagraph (N), by striking "and" at
16	the end;
17	(2) in subparagraph (O), by striking the period
18	at the end and inserting ", and"; and
19	(3) by adding at the end the following:
20	"(P) establish and operate a national web-based
21	system, to be known as the 'Transplantation Trans-
22	mission Sentinel Network', for the detection, report-
23	ing, and tracking of disease transmission from
24	organ, tissue, or eye donors to organ, tissue or eye
25	transplant recipients.".

1	(b) Accreditation of Establishments and Per-
2	SONNEL ENGAGED IN THE MANUFACTURE OF HUMAN
3	CELLS, TISSUES, OR CELLULAR OR TISSUE-BASED PROD-
4	UCTS.—
5	(1) In General.—The Secretary shall issue
6	regulations relating to the accreditation of—
7	(A) establishments; and
8	(B) personnel who participate in the recov-
9	ery, processing, storage, labeling, packaging, or
10	distribution of human cells, tissues, or cellular
11	or tissue-based products for such establish-
12	ments.
13	(2) AUTHORITY OF SECRETARY.—In issuing the
14	regulations under paragraph (1), the Secretary
15	shall—
16	(A) establish an accreditation process mod-
17	eled after the process used by the Joint Com-
18	mission (previously known as the Joint Com-
19	mission on Accreditation of Healthcare Organi-
20	zations); or
21	(B) adopt an accreditation process, estab-
22	lished by a private entity, that is in effect on
23	the date of enactment of this Act.
24	(3) DEFINITIONS—In this subsection:

- 1 (A) ESTABLISHMENT.—The term "establishment" has the meaning given such term in 3 section 1271.3 of title 21, Code of Federal Regulations (or any corresponding similar regulation or ruling).
- 6 (B) Human cells, tissues, or cel-7 PRODUCTS.—The LULAR ORTISSUE-BASED 8 term "human cells, tissues, or cellular or tissue-9 based products" has the meaning given such 10 term in section 1271.3 of title 21, Code of Fed-11 eral Regulations (or any corresponding similar 12 regulation or ruling).
- 13 (c) National Joint Replacement Registry 14 Study.—
 - (1) STUDY.—The Secretary shall conduct a study evaluating the advantages and disadvantages of establishing a national registry for the purpose of tracking the safety and effectiveness of artificial joints used to replace joints in beneficiaries of the Medicare program under title XVIII of the Social Security Act (42 U.S.C. 1395 et seq.).
 - (2) Contents of Proposed registry.—In evaluating the proposed registry under paragraph (1), the Secretary shall assume that the registry includes, at a minimum, information on—

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1	(A) the type of joint replaced;
2	(B) the side of the body on which the joint
3	is replaced;
4	(C) whether more than 1 operation was re-
5	quired in replacing a joint with an artificial
6	joint; and
7	(D) uniform identifiers (including the de-
8	vice lot number and catalog number) for the ar-
9	tificial joint involved.
10	(3) Report.—Not later than 2 years after the
11	date of enactment of this Act, the Secretary shall
12	submit to Congress a report on the results of the
13	study under paragraph (1) and recommendation for
14	changes to the Medicare program, including any nec-
15	essary changes to the Medicare claims form, to allow
16	for the collection of information required for the reg-
17	istry.
18	SEC. 105. TRAFFIC AND WORKPLACE SAFETY.
19	(a) Traffic Safety Study.—
20	(1) Study.—The Secretary, in consultation
21	with the Secretary of Transportation, shall conduct
22	a study, using epidemiological methods, on the fre-
23	quency, severity, and likely causes of severe trauma
24	to extremities resulting from motor vehicle crashes.

- 1 (2) REPORT.—Not later than 2 years after the 2 date of enactment of this Act, the Secretary of 3 Health and Human Services shall submit to Con-4 gress a report on the results of the study conducted 5 under paragraph (1).
 - (3) MOTOR VEHICLE DEFINED.—In this subsection, the term "motor vehicle" has the meaning given such term in section 405 of title 23, United States Code.

(b) Workplace Safety Study.—

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- (1) IN GENERAL.—The Secretary, in consultation with the Secretary of Labor, shall conduct a study, within the research framework of the National Occupational Research Agenda coordinated by the National Institute for Occupational Safety and Health, on—
 - (A) the number of workplace-related musculoskeletal injuries and other conditions; and
 - (B) medical treatments provided to individuals to treat such injuries and conditions.
- (2) Collection Methodology.—In conducting the study under paragraph (1), the Secretary of Health and Human Services shall collect information in a manner that allows such information to be reported and analyzed on the basis of the

- type of musculoskeletal injury or condition involved and the race and ethnicity of the individual with such injury or condition.
- 4 (3) REQUEST FOR INFORMATION FROM STATE
 5 WORKERS COMPENSATION BOARDS.—The Secretary
 6 may request that the head of each State agency that
 7 has jurisdiction over workers compensation submit
 8 information relevant to the study under paragraph
 9 (1) to the Secretary.
- 10 (4) Report.—Not later than 2 years after the 11 date of enactment of this Act, the Secretary shall 12 submit to Congress a report on the results of the 13 study under paragraph (1), analyzed by type of in-14 jury or condition, and race and ethnicity.

15 SEC. 106. PUBLIC EDUCATION CAMPAIGN.

- 16 (a) In General.—The Secretary, in consultation
- 17 with the Secretary of Education, the Secretary of Trans-
- 18 portation, the Chairman of the Consumer Product Safety
- 19 Commission, and the Chair of the President's Council on
- 20 Physical Fitness and Sports, shall conduct a national pub-
- 21 lic awareness program on musculoskeletal health.
- (b) Contents of Program.—The program shall in-
- 23 clude, at a minimum, each of the following components:
- 24 (1) General information for the pub-
- 25 LIC.—A component providing education to the gen-

- eral public on musculoskeletal health, including education on healthy lifestyle practices relating to musculoskeletal health.
 - (2) Education for health professionals.—A component providing education to health professionals on musculoskeletal health, including—
 - (A) specific information on musculoskeletal health in medically underserved populations (as defined in section 330(b)(3) of the Public Health Service Act (42 U.S.C. 254b(b)(3))); and
 - (B) information of the impact of musculoskeletal diseases and other conditions on racial and ethnic minority populations.
 - (3) Education for GIRLs.—A component that utilizes the program popularly known as "powerful bones, powerful girls" to educate girls ages 9 through 12 on optimal bone health and the methods to achieve such health, with a focus on reducing the risk that such girls will develop osteoporosis as adults.
- 23 (4) EDUCATION FOR SPECIAL POPULATIONS.—
 24 A component providing education to each of the fol-

1	lowing populations, that addresses the specific needs
2	of those populations:
3	(A) Populations of the United States that
4	have disproportionately high levels of musculo-
5	skeletal disease and injury and other conditions.
6	(B) Populations of the United States that
7	have disproportionally low levels of access to
8	orthopaedic services.
9	(C) Racial and ethnic minority populations
10	of the United States.
11	SEC. 107. ORTHOPAEDIC PHYSICIAN WORKFORCE TRAIN-
12	ING STUDY.
13	(a) Study.—The Secretary, acting through the Ad-
14	ministrator of the Health Resources and Services Admin-
15	istration, shall conduct a study on the amount of funding
16	available, from all sources, for graduate medical education
17	in orthopaedics and the impact of that amount of funding
18	on the availability of physicians trained in orthopaedics.
19	(b) Report.—Not later than 2 years after the date
20	of enactment of this Act, the Secretary shall submit to
21	Congress a report on the results of the study conducted
22	under subsection (a).
23	SEC. 108. BONE DENSITY UNDER THE MEDICARE PROGRAM.
24	(a) Standard Measurement Tool for Bone
25	DENSITY STUDY.—

1	(1) Study.—The Secretary, in consultation
2	with the Director of the Agency for Healthcare Re-
3	search and Quality, the Director of the National In-
4	stitute of Biomedical Imaging and Bioengineering,
5	and the Administrator of the Centers for Medicare
6	& Medicaid Services, shall conduct a study on—
7	(A) the cost-effectiveness of all available
8	methods for measuring bone mass in bene-
9	ficiaries of the Medicare program under title
10	XVIII of the Social Security Act (42 U.S.C.
11	1395 et seq.) for the purpose of identifying the
12	most cost-effective method;
13	(B) the cost-effectiveness of different time
14	intervals between bone mass screenings for such
15	beneficiaries for the purpose of identifying the
16	most cost-effective interval; and
17	(C) the frequency with which the cost-ef-
18	fectiveness of such methods and intervals
19	should be reviewed based on anticipated
20	changes in technology.
21	(2) Report.—
22	(A) IN GENERAL.—Not later than 2 years
23	after the date of enactment of this Act, the Sec-
24	retary shall submit to Congress and the Sec-

1	retary of Commerce a report on the results of
2	the study under paragraph (1).
3	(B) Contents of Report.—The report
4	submitted under subparagraph (A) shall in-
5	clude, at a minimum, information on each of
6	the following:
7	(i) The most cost-effective method for
8	measuring bone mass in beneficiaries of
9	the Medicare program and a recommenda-
10	tion for the adoption of such method by
11	the Medicare program.
12	(ii) The most cost-effective interval
13	between bone mass screenings for such
14	beneficiaries and recommendation for the
15	adoption of such interval by the Medicare
16	program.
17	(3) United states preventive services
18	TASK FORCE.—In making the recommendations
19	under paragraph (2)(B), the Secretary shall take
20	into consideration any relevant guidelines in the
21	most recent Guide to Clinical Preventive Services
22	issued by the United States Preventive Services
23	Task Force.
24	(4) REVISIONS TO RECOMMENDATIONS.—The
25	Secretary shall monitor developments in technology

- 1 used to measure bone density and prepare and sub-
- 2 mit to Congress and the Secretary of Commerce re-
- 3 ports updating the recommendations made under
- 4 paragraph (2)(B), as needed.

(42 U.S.C. 1395 et seq.).

- 5 (b) STANDARD UNIT FOR MEASURING BONE DEN-
- 6 SITY.—

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- 7 (1) REPORT.—Not later than 3 years after the 8 date of enactment of this Act, the Secretary of Com-9 merce, acting through the Director of the National 10 Institute of Standards and Technology, shall prepare 11 and submit to Congress a report containing rec-12 ommendations concerning a standard unit for the 13 measurement of bone mass for use by the Medicare 14 program under title XVIII of the Social Security Act
 - (2) Considerations for recommendations under tions.—In proposing the recommendations under paragraph (1), the Secretary of Commerce shall take into consideration the recommendations made under subsection (a)(2)(B), including any applicable updates to such recommendations made under subsection (a)(4), and the accuracy and utility of the recommended standard measurement unit as a diagnostic tool.

SEC. 109. ACCESS TO ORTHOPAEDIC SERVICES FOR BENE-

- 2 FICIARIES OF MEDICAID AND SCHIP.
- 3 (a) Report.—Not later than 2 years after the date
- 4 of enactment of this Act, the Comptroller General of the
- 5 United States shall prepare and submit a report to Con-
- 6 gress on access to orthopaedic services—
- 7 (1) by beneficiaries of the Medicaid program
- 8 under title XIX of the Social Security Act (42)
- 9 U.S.C. 1396 et seq.); and
- 10 (2) by beneficiaries of the State children's
- health insurance program under title XXI of the So-
- cial Security Act (42 U.S.C. 1397aa et seq.).
- 13 (b) Focus on Barriers To Access Affecting
- 14 CHILDREN.—The report prepared under this section shall
- 15 include, at a minimum, information on barriers to access
- 16 to orthopaedic services that disproportionately affect chil-
- 17 dren who are beneficiaries of the Medicaid program or the
- 18 State children's health insurance program.
- 19 SEC. 110. AGE-RELATED PROGRAMS.
- 20 (a) State-Based Examples of Network Innova-
- 21 TION, OPPORTUNITY, AND REPLICATION GRANT PRO-
- 22 GRAM.—The Secretary shall award grants to State agen-
- 23 cies in a manner similar to the manner in which grants
- 24 were awarded under the program of the Department of
- 25 Health and Human Services popularly known as the
- 26 "State-based Examples of Network Innovation, Oppor-

- 1 tunity, and Replication Grant Program" for the purpose
- 2 of allowing such State agencies to establish or expand
- 3 health and aging activities for seniors in the areas of clin-
- 4 ical preventive services, physical activity, chronic disease
- 5 self-management, and oral health.
- 6 (b) Childhood Musculoskeletal Diseases,
- 7 Conditions, and Injuries Report.—Not later than 2
- 8 years after the date of enactment of this Act, the Surgeon
- 9 General shall prepare and submit to Congress a report on
- 10 the burdens and costs associated with childhood musculo-
- 11 skeletal diseases, conditions, and injuries in the United
- 12 States.

13 SEC. 111. MINORITY HEALTH DISPARITIES.

- 14 The Secretary, acting through the Deputy Assistant
- 15 Secretary for Minority Health, shall treat musculoskeletal
- 16 diseases and conditions as a priority for programs and
- 17 grants affiliated with the Office of Minority Health and
- 18 may incorporate initiatives related to musculoskeletal dis-
- 19 eases and conditions into the initiatives of such Office.

SEC. 201. THIRD LONGITUDINAL STUDY ON AGING.

20 TITLE II—THIRD LONGITUDINAL 21 STUDY ON AGING

- 23 (a) In General.—The Secretary, acting through the
- 24 Director of the National Center for Health Statistics and
- 25 in consultation with the Director of the National Institute

- 1 on Aging, shall conduct a third longitudinal study on
- 2 aging in the United States in a manner similar to the
- 3 manner in which the second longitudinal study on aging
- 4 was conducted.
- 5 (b) DURATION.—The duration of the third longitu-
- 6 dinal study under subsection (a) shall be at least 6 years.
- 7 (c) AVAILABILITY OF DATA.—Data collected through
- 8 the third longitudinal study under subsection (a) shall be
- 9 made available to the public in a time and manner similar
- 10 to the time and manner in which data from the second
- 11 longitudinal study on aging was made available to the pub-
- 12 lic.

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