

Calendar No. 287

116TH CONGRESS 1ST SESSION

S. 1657

To provide assistance to combat the escalating burden of Lyme disease and other tick and vector-borne diseases and disorders.

IN THE SENATE OF THE UNITED STATES

May 23 (legislative day, May 22), 2019

Ms. Collins (for herself, Ms. Smith, Mr. King, Mrs. Capito, Mr. Blumenthal, Mrs. Hyde-Smith, Mr. Murphy, Mr. Boozman, Ms. Hassan, Mr. Braun, and Mr. Sanders) introduced the following bill; which was read twice and referred to the Committee on Health, Education, Labor, and Pensions

November 5, 2019

Reported by Mr. ALEXANDER, with an amendment

[Strike out all after the enacting clause and insert the part printed in italic]

A BILL

To provide assistance to combat the escalating burden of Lyme disease and other tick and vector-borne diseases and disorders.

- 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 "Ticks: Identify, Con-
- 5 trol, and Knockout Act" or the "TICK Act".

1	SEC. 2. OFFICE OF OVERSIGHT AND COORDINATION FOR
2	VECTOR-BORNE DISEASE.
3	(a) Establishment.—The Secretary of Health and
4	Human Services (referred to in this Act as the "Sec-
5	retary") shall establish in the Office of the Secretary an
6	Office of Oversight and Coordination for Vector-Borne
7	Diseases (referred to in this Act as the "Office"), to be
8	headed by a director to be appointed by the Secretary.
9	(b) Duties of the Office.—
10	(1) In General.—The Director of the Office
11	shall
12	(A) oversee the creation and maintenance
13	of a national strategy to address Lyme disease,
14	and other tick and vector-borne diseases as pro-
15	vided for in paragraph (2); and
16	(B) oversee and coordinate Lyme disease
17	and other tick and vector-borne disease and dis-
18	order programs and activities across the agen-
19	cies and offices of the Department of Health
20	and Human Services and other Federal agen-
21	cies outside of the Department of Health and
22	Human Services, as appropriate.
23	(2) National Strategy.—
24	(A) IN GENERAL.—The Director of the Of-
25	fice shall provide for the conduct of an annual
26	assessment of the progress of the United States

in preparing for the escalating burden of Lyme disease and other tick and vector-borne diseases and disorders, including an assessment of all Federally funded programs and activities related to surveillance, diagnosis, treatment, education, or prevention, as well as implementation steps, and recommendations for priority actions, with appropriate benchmarks to measure progress, based on the assessment.

- (B) Non-federal perspectives.—In developing the strategy under subparagraph (A), and maintaining it, the Director shall consult with non-Federal individuals with appropriate expertise, which may include—
 - (i) epidemiologists with experience in surveillance, treatment, education, or prevention of vector-borne diseases;
 - (ii) representatives of national patient advocacy and research organizations that focus on vector-borne diseases, and those that focus specifically on tick-borne disease and have demonstrated experience in research, data collection, or patient access to eare;

1	(iii) health information technology ex-
2	perts or other information management
3	specialists;
4	(iv) elinicians, entomologists, vector-
5	management professionals, integrated pest
6	management professionals, public health
7	professionals, and others with expertise in
8	vector-borne disease, including Lyme dis-
9	ease or other tick-borne diseases or dis-
10	orders; and
11	(v) research scientists with experience
12	conducting translational research or uti-
13	lizing surveillance systems for scientific re-
14	search purposes.
15	(e) Objective of the Office.—In carrying out
16	subsection (b), the Director of the Office shall facilitate
17	and work to ensure the accomplishment of the following
18	activities:
19	(1) Expansion and enhancement of epidemiolog-
20	ical research and basic, translational, and clinical bi-
21	ological and biomedical research.
22	(2) Expansion and improvement of tick surveil-
23	lance, linking tick surveillance to surveillance of
24	Lyme disease, and reporting of Lyme disease and
25	other tick- and vector-borne diseases, including co-

- 1 infections with agents of more than one tick or vec-2 tor-borne diseases.
 - (3) Development of effective diagnostic tests to accurately and timely diagnose Lyme disease and other tick- and vector-borne diseases, including direct detention tests.
 - (4) Development of treatments to cure or improve the lives of those who are infected with Lyme disease or other tick-and vector-borne diseases or who suffer from a tick-induced disorder (such as tick PIM programs).
 - (5) Address the quality of patient eare, treatment affordability, and public awareness of Lyme disease and other tick or vector-borne diseases.
 - (6) Design and conduct clinical trials of sufficient size and duration to support clinical recommendations.
 - (7) Systematic documentation of the experiences of health care professionals in diagnosing and treating tick- and vector-borne disease, including diagnostic and treatment outcomes.
 - (8) Development and maintenance of one or more registries of patients and their experiences relating to exposure to, diagnosis for, and treatment of tick- and vector-borne disease, including out-

- comes, such that the confidentiality and safety of
 patient data is protected.

 (9) Access to data and enable emerging technologies to improve patient care, sharing data with
 researchers and care providers.

 (10) Coordination with other Federal departments to address tick- and other vector-borne dis-
- 7 ments to address tick- and other vector-borne dis-8 eases including the Department of Defense, the De-9 partment of Agriculture, the Environmental Protec-10 tion Agency, the Department of Interior, and the 11 Department of Homeland Security.
 - (11) Coordination with the Tick-Borne Disease
 Working Group established under section 2062 of
 the 21st Century Cures Act (42 U.S.C. 284s) to develop and implement recommendations.
- 16 (12) Coordination with international bodies to
 17 integrate and inform the fight against Lyme disease,
 18 and other tick- and vector-borne diseases globally.

19 SEC. 3. REGIONAL CENTERS OF EXCELLENCE IN TICK AND

- 20 **VECTOR-BORNE DISEASES.**
- 21 (a) IN GENERAL.—The Secretary, in coordination 22 with the Director of the Centers for Disease Control and 23 Prevention and the heads of other agencies as appropriate, 24 shall award grants, contracts, or cooperative agreements 25 to eligible entities (such as institutions of higher edu-

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- 1 eation, State, tribal, and local health departments, asso-
- 2 ciations, or other appropriate entities) for the establish-
- 3 ment or support of Regional Centers of Excellence in Tick
- 4 and Vector-Borne Diseases. Such Regional Centers shall
- 5 be designed to address Lyme disease and other tick and
- 6 vector-borne diseases by—

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- 7 (1) building collaboration between academia
 8 and public health agencies for surveillance, preven9 tion and response to Lyme disease and other tick
 10 and vector-borne diseases;
 - (2) providing training for public health entomologists to deal with Lyme disease and other tick and vector-borne diseases; and
- 14 (3) conducting applied research to develop and
 15 validate prevention and control tools and methods,
 16 and to anticipate and respond to outbreaks of Lyme
 17 disease and other tick and vector-borne diseases.
- (b) ELIGIBILITY.—To be eligible to receive a grant,
 19 contract, or cooperative agreement under this section, an
 20 entity shall prepare and submit to the Secretary an appli21 cation at such time, in such manner, and containing such
 22 agreements and information as the Secretary may require,

including a description of how the entity will—

(1) coordinate, as applicable, with existing Fed-
eral, State, and tribal programs related to Lyme dis-
ease and other vector-borne diseases;

(2) examine, evaluate, and promote evidencebased interventions for individuals with Lyme disease and other tick- and vector-borne diseases, including those in rural and underserved populations, and those who provide care for such individuals; and

(3) prioritize activities relating to—

(A) expanding efforts, as appropriate, to implement evidence-based practices to address Lyme disease and other tick- and vector-borne diseases, including through the training of State, local, and tribal public health officials and other health professionals on such practices;

(B) supporting surveillance of vectors, and early detection and diagnosis of Lyme and other tick- and vector-borne diseases, including improving the quality and reliability of diagnostic tools at all stages of disease progression, and developing a Lyme disease test capable of distinguishing between past and active infections;

1	(C) improving the safety and efficacy of
2	any new, renewed, or modified human vaccine
3	for Lyme disease, other tick- and vector-borne
4	diseases, or a combination of such diseases;
5	(D) developing a standardized screening
6	protocol for Lyme disease and other tick- and
7	vector-borne diseases;
8	(E) enhancing studies and activities on
9	tick biology, disease ecology, and surveillance,
10	and tick management; and
11	(F) supporting other relevant activities
12	identified by the Secretary or the Director of
13	the Centers for Disease Control and Prevention,
14	as appropriate.
15	(e) Considerations. In awarding grants, con-
16	tracts, and cooperative agreements under this section, the
17	Secretary shall consider, among other factors, whether the
18	entity—
19	(1) provides services to rural areas or other un-
20	derserved populations;
21	(2) is able to build on an existing infrastructure
22	of services and public health research;
23	(3) is located in an area with a high prevalence,
24	or in any area predicted to have a high prevalence,

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1	of Lyme disease or other tick- and vector-borne dis-
2	eases; and
3	(4) has experience with conducting research re-
4	lated to Lyme disease and other tick- and vector-
5	borne diseases.
6	(d) Authorization of Appropriations.—For the
7	purpose of carrying out this section, there are authorized
8	to be appropriated \$10,000,000 for each of fiscal years
9	from 2021 through 2026. Amounts appropriated shall be
10	allocated under this section to diseases in a manner that
11	proportionately matches the disease burden of those dis-
12	eases in the United States, which shall be reassessed and
13	adjusted annually.
14	SEC. 4. COOPERATIVE AGREEMENTS WITH THE CENTERS
15	FOR DISEASE CONTROL AND PREVENTION.
16	(a) In General.—The Secretary, in coordination
17	with the Director of the Centers for Disease Control and
18	Prevention and the heads of other agencies, as appro-
19	priate, shall enter into cooperative agreements between the
20	Centers for Disease Control and Prevention and health de-

21 partments of States, political subdivisions of States, and

Indian tribes and tribal organizations, to address Lyme

Disease and other tick- and vector-borne diseases, and to

support the development and implementation of evidence-

1	based research, interventions, and treatment with respect
2	to
3	(1) educating and informing the public, based
4	on evidence-based public health research and data,
5	about Lyme Disease and other vector-borne diseases;
6	(2) supporting early detection and diagnosis;
7	(3) supporting prevention;
8	(4) improving treatment;
9	(5) supporting care planning and management
10	for individuals with Lyme disease and other tick-
11	and vector-borne diseases; and
12	(6) supporting other relevant activities identi-
13	fied by the Secretary or the Director of the Centers
14	for Disease Control and Prevention, as appropriate.
15	(b) ELIGIBILITY.—To be eligible to enter into a coop-
16	erative agreement under this section, an entity described
17	in subsection (a) shall prepare and submit to the Secretary
18	an application at such time, in such manner, and con-
19	taining such information as the Secretary may require, in-
20	eluding a plan that describes—
21	(1) how the applicant proposes to develop or ex-
22	pand programs to educate individuals through part-
23	nership engagement, workforce development, guid-
24	ance and support for programmatic efforts, and
25	evaluation with respect to Lyme disease and other

- 1 tick- or vector-borne diseases, and how the applicant
- 2 proposes to support other relevant activities identi-
- 3 fied by the Secretary or the Director of the Centers
- 4 for Disease Control and Prevention, as appropriate;
- 5 (2) the manner in which the applicant will co-
- 6 ordinate with Federal, tribal, and State programs
- 7 related to Lyme Disease and other vector-borne dis-
- 8 eases, and appropriate State, tribal, and local agen-
- 9 eies, as well as other relevant public and private or-
- 10 ganizations or agencies; and
- 11 (3) the manner in which the applicant will
- 12 evaluate the effectiveness of any program carried out
- 13 under the cooperative agreement.
- 14 (e) AUTHORIZATION OF APPROPRIATIONS.—For the
- 15 purpose of carrying out this section, there are authorized
- 16 to be appropriated \$20,000,000 for each of fiscal years
- 17 from (2021 through 2026). Amounts appropriated shall
- 18 be allocated under this section to diseases in a manner
- 19 that proportionately matches the disease burden of those
- 20 diseases in the United States, which shall be reassessed
- 21 and adjusted annually.
- 22 SECTION 1. SHORT TITLE.
- This Act may be cited as the "Kay Hagan Tick Act".

1	SEC. 2. COMBATING VECTOR-BORNE DISEASES.
2	Title III of the Public Health Service Act is amended
3	by inserting after section 317T (42 U.S.C. 247b-22) the fol-

- 5 "SEC. 317U. NATIONAL STRATEGY AND REGIONAL CENTERS
- 6 OF EXCELLENCE IN VECTOR-BORNE DIS-
- 7 EASES.

lowing:

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- 8 "(a) In General.—The Secretary, acting through the
- 9 Assistant Secretary for Health, shall—
- "(1) ensure the development and implementation of a national strategy to address vector-borne diseases, including tick-borne diseases, consistent with sub-
- 13 section (b); and
- 14 "(2) coordinate programs and activities, includ-15 ing related to data collection, research, and the devel-16 opment of diagnostics, treatments, vaccines, and other 17 related activities, to address vector-borne diseases, in-18 cluding tick-borne diseases, across the Department of 19 Health and Human Services and with other Federal 20 agencies or departments, as appropriate.
- 21 "(b) STRATEGY.—
- 22 "(1) IN GENERAL.—The Secretary, in coordina-23 tion with the Secretary of Defense, the Secretary of 24 Agriculture, the Administrator of the Environmental 25 Protection Agency, the Secretary of the Interior, the 26 Secretary of Veterans Affairs, the Secretary of Home-

1	land Security, and others, as appropriate, shall de-
2	velop a strategy to address gaps in Federal programs,
3	and assess the progress of the United States in, ad-
4	dressing vector-borne diseases, including tick-borne
5	diseases. Such strategy shall—
6	"(A) assess gaps and unnecessary duplica-
7	tion in federally funded programs and activities
8	related to surveillance, diagnosis, treatment, edu-
9	cation, pathogenesis, or prevention of vector-
10	borne diseases, including tick-borne diseases,
11	which may include taking into consideration rel-
12	evant strategic plans made by other agencies;
13	"(B) identify gaps and unnecessary dupli-
14	cation with respect to—
15	"(i) epidemiological, basic,
16	translational, and clinical research on vec-
17	tor-borne diseases, including tick-borne dis-
18	eases; and
19	"(ii) vector surveillance, registries, and
20	disease monitoring, including coinfections
21	with agents of more than one vector-borne
22	disease;
23	"(C) identify strategic goals related to ad-
24	dressing vector-borne diseases, including tick-
25	borne diseases, including goals related to the de-

1	velopment of diagnostics, treatments, vaccines,
2	and other related measures, as appropriate, and
3	benchmarks to measure progress;
4	"(D) identify ways to improve the care and
5	treatment of individuals with vector-borne dis-
6	eases, including tick-borne diseases, and to im-
7	prove public awareness of such diseases; and
8	$``(E)\ update\ such\ strategy\ biennially.$
9	"(2) Non-federal perspectives.—In devel-
10	oping and updating, as applicable, the strategy under
11	paragraph (1), the Secretary shall—
12	"(A) coordinate with the Tick-Borne Dis-
13	ease Working Group established under section
14	2062 of the 21st Century Cures Act (42 U.S.C.
15	284s), as appropriate; and
16	"(B) consult with non-Federal individuals
17	with appropriate expertise, which may include—
18	"(i) epidemiologists with experience in
19	vector-borne diseases, including tick-borne
20	diseases;
21	"(ii) representatives of patient advo-
22	cacy and research organizations that focus
23	on vector-borne diseases, including those
24	that focus specifically on tick-borne diseases
25	and have demonstrated experience in related

1	research, public health, data collection, or
2	patient access to care;
3	"(iii) health information technology ex-
4	perts or other information management spe-
5	cialists;
6	"(iv) clinicians, entomologists, vector
7	management professionals, public health
8	professionals, and others with expertise in
9	vector-borne diseases, including tick-borne
10	diseases; and
11	"(v) researchers, including researchers
12	with experience conducting translational re-
13	search.
14	"(c) Centers of Excellence.—The Secretary, in
15	coordination with the Director of the Centers for Disease
16	Control and Prevention and the heads of other agencies, as
17	appropriate, shall award grants, contracts, or cooperative
18	agreements to institutions of higher education for the estab-
19	lishment or continued support of regional centers of excel-
20	lence in vector-borne diseases to address vector-borne dis-
21	eases, including tick-borne diseases, by—
22	"(1) facilitating collaboration between academia
23	and public health organizations for public health sur-
24	veillance, prevention, and response activities related
25	to vector-borne diseases, including tick-borne diseases;

"(2) providing training for public health entomologists and other health care professionals, as appropriate, to address vector-borne diseases, including tick-borne diseases;

- "(3) conducting research to develop and validate prevention and control tools and methods, including evidence-based and innovative, evidence-informed tools and methods to anticipate and respond to disease outbreaks; or
- 10 "(4) preparing for and responding to outbreaks 11 of vector-borne diseases, including tick-borne diseases. 12 "(d) ELIGIBILITY.—To be eligible to receive a grant, 13 contract, or cooperative agreement under subsection (c), an 14 entity shall submit to the Secretary an application at such 15 time, in such manner, and containing such information as 16 the Secretary may require, including a description of how 17 the entity will conduct the activities described in such sub-

19 "(e) REPORTS.—

section.

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20 "(1) PROGRAM SUMMARY.—An entity receiving
21 an award under subsection (c) shall, not later than
22 one year after receiving such award, and annually
23 thereafter, submit to the Secretary a summary of pro24 grams and activities funded under the award.

1	"(2) Progress report.—Not later than 4 years
2	after the date of enactment of this section, the Sec-
3	retary shall submit to the Committee on Health, Edu-
4	cation, Labor, and Pensions of the Senate and the
5	Committee on Energy and Commerce of the House of
6	Representatives, a report on the progress made in ad-
7	dressing vector-borne diseases, including tick-borne
8	diseases, through activities carried out under this sec-
9	tion.
10	"(f) AUTHORIZATION OF APPROPRIATIONS.—For the
11	purpose of carrying out this section, there are authorized
12	to be appropriated \$10,000,000 for each of fiscal years 2021
13	through 2025.".
14	SEC. 3. ENHANCING CAPACITY TO ADDRESS VECTOR-
15	BORNE DISEASES.
16	(a) Enhanced Support.—Subtitle C of title XXVIII
17	of the Public Health Service Act (42 U.S.C. 300hh-31 et
18	seq.) is amended by adding at the end the following:
19	"SEC. 2822. ENHANCED SUPPORT TO ASSIST HEALTH DE-
20	PARTMENTS IN ADDRESSING VECTOR-BORNE
21	DISEASES.
22	"(a) In General.—The Secretary, acting through the
23	Director of the Centers for Disease Control and Prevention,
24	may enter into cooperative agreements with health depart-

1	Tribes and Tribal organizations in areas at high risk of
2	vector-borne diseases in order to increase capacity to iden-
3	tify, report, prevent, and respond to such diseases and re-
4	lated outbreaks.
5	"(b) Eligibility.—To be eligible to enter into a coop-
6	erative agreement under this section, an entity described in
7	subsection (a) shall prepare and submit to the Secretary
8	an application at such time, in such manner, and con-
9	taining such information as the Secretary may require, in-
10	cluding a plan that describes—
11	"(1) how the applicant proposes to develop or ex-
12	pand programs to address vector-borne diseases risks,
13	including through—
14	"(A) related training and workforce devel-
15	opment;
16	"(B) programmatic efforts to improve ca-
17	pacity to identify, report, prevent, and respond
18	to such disease and related outbreaks; and
19	"(C) other relevant activities identified by
20	the Director of the Centers for Disease Control
21	and Prevention, as appropriate;
22	"(2) the manner in which the applicant will co-
23	ordinate with other Federal, Tribal, and State agen-
24	cies and programs, as applicable, related to vector-

1	borne diseases, as well as other relevant public and				
2	private organizations or agencies; and				
3	"(3) the manner in which the applicant will				
4	evaluate the effectiveness of any program carried or				
5	under the cooperative agreement.				
6	"(c) Authorization of Appropriations.—For the				
7	purposes of carrying out this section, there are authorize				
8	to be appropriated \$20,000,000 for each of fiscal years 202				
9	through 2025.".				

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A BILL

To provide assistance to combat the escalating burden of Lyme disease and other tick and vectorborne diseases and disorders.

 $\begin{tabular}{ll} November 5, 2019 \\ \hline Reported with an amendment \\ \hline \end{tabular}$