

# United States Senate

WASHINGTON, DC 20510-3205

June 4, 2025

The Honorable Mitch McConnell  
Chairman  
Defense Appropriations Subcommittee  
United States Senate  
Washington, DC 20510

The Honorable Chris Coons  
Ranking Member  
Defense Appropriations  
United States Senate  
Washington, DC 20510

Dear Chairman McConnell and Ranking Member Coons:

As you prepare Fiscal Year 2026 (FY26) appropriations, we are requesting \$9 million to support the Department of Defense's Tick-Borne Disease Research Program (TBDRP), a Congressionally Directed Medical Research Program (CDMRP). The TBDRP was established in FY16 to support innovative and impactful research that addresses fundamental issues and knowledge gaps related to tick-borne diseases, including biological mechanisms (e.g. pathogenesis), prevention strategies, diagnostic tools, and tailored treatments. From FY16 through FY19, Congress appropriated \$5 million per year to TBDRP and in FY20 through FY24, Congress increased TBDRP funding to \$7 million. Unfortunately, on March 15, 2025, the TBDRP program was cut from the CDMRP research agenda which eliminates an important avenue for discovery of prevention methods, diagnostics and therapies to treat our service members, their families, veterans and the American public affected by Lyme and tick-borne diseases.

With the restoration of the TBDRP program and \$9 million in funding, TBDRP will be positioned to support promising tick-borne disease research to address Lyme disease, Powassan, Spotted Fever, and more. Additional funding would allow for more research like that of Dr. Charles Chiu of the University of California, San Francisco (UCSF). Dr. Chiu was the recipient of an FY16 TBDRP research award to improve tools for the diagnosis of early Lyme disease and early tick-borne infections.<sup>1</sup> Accurate tests to diagnose early infection are imperative for effective treatment and improved patient outcomes. Current tests perform poorly at identifying early onset of Lyme and other tick-borne diseases which can result in delayed or inappropriate treatment.<sup>2,3</sup> Dr. Chiu's newly developed assays are proving promising for early detection, and his approach to diagnosing Powassan virus— the illness that

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<sup>1</sup> Chiu, Charles. 2016. Development and Validation of a Combined Pathogen-Host Genomic Assay for Diagnosis of Lyme Disease and Other Tick-Borne Infections. Investigator-Initiated Research Award. See [https://cdmrp.army.mil/search.aspx?LOG\\_NO=TB160126](https://cdmrp.army.mil/search.aspx?LOG_NO=TB160126) Accessed March 7, 2020.

<sup>2</sup> Moore A, Nelson C, Molins C, et al. 2016. Current guidelines, common clinical pitfalls, and future directions for laboratory diagnosis of Lyme disease, United States. *Emerg Infect Dis.* Jul;22(7):1169–1177.

<sup>3</sup> Clark RP and Hu LT. 2008. Prevention of Lyme disease and other tick-borne infections. *Infect Dis Clin North Am.* Sep;22(3):381-396.

our colleague, former U.S. Senator Kay Hagan, died from in 2019. Dr. Chiu's diagnostic has already been put into use with diagnosing patients such as this 4-year-old boy from Ohio in 2023.<sup>4</sup> Diagnostic research continues.

Dr. Brandon Jutras at Virginia Tech was awarded in FY22 a therapeutic/diagnostic TBDRP award to continue the research and development of a reliable diagnostic using a unique biomarker. Recently, Dr. Jutras moved his laboratory to Northeastern and the LymeX Phase IV program has now recognized his outstanding diagnostic work and invited him to participate. Additional resources for TBDRP would mean more funding for high-quality research like that of Drs. Chiu and Jutras, which will lead to much needed advances in tick-borne disease knowledge and response.

This funding is ultimately about our military personnel and their families who are struck by Lyme and tick-borne disease illnesses, marching far too many into forced retirement to care for themselves or their loved ones, directly affecting our military readiness. For example, Colonel Nicole Malachowski (USAF, ret.), a United States Air Force mission-ready fighter pilot who flew in three operational F-15E fighter squadrons and registered over 188 combat hours in both OPERATION DELIBERATE FORGE and OPERATION IRAQI FREEDOM, is America's first female Thunderbird pilot, a wife, a mother, and one of many in our armed forces who was forced to prematurely retire when she acquired two infections as a result of a single tick bite. With the research investment in better diagnostics and therapeutics, we can keep America's finest service members safe and mission focused.

Tick-borne diseases are increasingly prevalent across the United States as tick ranges expand—due to a number of CDC-identified factors including suburban development and changing climate patterns. Currently, there are at least 18 known infectious tick-borne pathogens, with 20 conditions and 13 illnesses resulting from tick bites.<sup>5</sup> Emerging tick-borne diseases such as Alpha-gal are becoming more prevalent with the CDC estimating 450,000 cases in the United States. Bacteria are responsible for most tick-borne diseases in the United States, and Lyme disease accounts for 82% of reported cases. An especially at-risk population is military forces and their dependents. With approximately 75% of all US military installations located in states where 99% of the tick-borne disease cases occur, exposure to ticks and the diseases they carry is high.<sup>6</sup> Tick-borne diseases are a threat to U.S. national security, military readiness, and the health and wellness of service members and their families.<sup>7</sup>

In its 2018 report to Congress, the Tick-Borne Disease Working Group recommended that the Department of Defense (DoD) “Commence study of tick-borne disease incidence and prevalence of active duty service member and their dependents; Compile data on the impact of

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<sup>4</sup> Farrington, Marjorie. 2023. Powassan Virus Infection Detected by Metagenomic Next-Generation Sequencing, Ohio, USA. *Emerg Infect Dis.* 2023 Apr;29(4):838–841.

<sup>5</sup> Tick-Borne Disease Working Group. 2018. Report to Congress. See: <https://www.hhs.gov/sites/default/files/tbdwgreport-to-congress-2018.pdf> Accessed March 7, 2020.

<sup>6</sup> Tick-Borne Disease Research Program. 2019. Program Highlights. See: [https://cdmrp.army.mil/tbdrp/pbbks/tbdrp\\_programhighlight2019.pdf](https://cdmrp.army.mil/tbdrp/pbbks/tbdrp_programhighlight2019.pdf) Accessed March 7, 2020.

<sup>7</sup> Rans, Tonya. 2019. Mitigating the Risk of Disease from Tick-borne Encephalitis in U.S. Military Populations. Military Health System. See: <https://health.mil/News/Articles/2019/11/01/Tick-borne-Encephalitis> Accessed March 7, 2020.

tick-borne diseases on military readiness; and Create education and preparedness programs that specifically address the unique risks faced by service members in training and on deployment and by their families.”<sup>8</sup> The DOD has begun this work with its Tick-Borne Disease Research Program, which researches tick-borne disease issues to inform military education, preparedness, and readiness. Yet with only between \$5 and \$7 million appropriated each year, TBDRP’s research mandate remains underfunded. According to data from TBDRP’s grant application peer review process, highly rated research proposals totaling approximately \$4 million per year are unfunded due to TBDRP’s limited financial resources.<sup>9</sup>

We appreciate your ongoing commitment to combating tick-borne diseases through CDMRP. Moreover, we appreciate your consideration of our request to increase funding to CDMRP at \$9 million in order to build on the necessary work of the Tick-Borne Disease Research Program.

Sincerely,



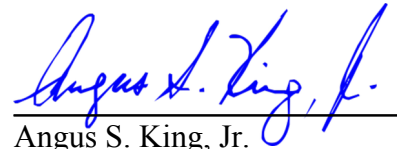
Kirsten Gillibrand  
United States Senator



Alex Padilla  
United States Senator



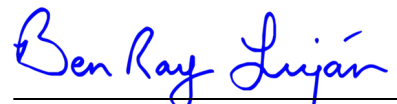
Peter Welch  
United States Senator



Angus S. King, Jr.  
United States Senator



Richard Blumenthal  
United States Senator



Ben Ray Lujan  
United States Senator

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<sup>8</sup> Tick-Borne Disease Working Group. 2018. Report to Congress. See: [https:// www.hhs.gov/sites/default/files/tbdwgreport-to-congress-2018.pdf](https://www.hhs.gov/sites/default/files/tbdwgreport-to-congress-2018.pdf) Accessed March 7, 2020.

<sup>9</sup> Data collected via internal communication with TBDRP leadership.



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Tina Smith  
United States Senator



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Sheldon Whitehouse  
United States Senator