

119TH CONGRESS
1ST SESSION

H. R. 4321

To direct the Secretary of Defense to develop a strategy for treating traumatic brain injuries through digital health technologies.

IN THE HOUSE OF REPRESENTATIVES

JULY 10, 2025

Mr. CROW (for himself and Mr. CRANK) introduced the following bill; which was referred to the Committee on Armed Services

A BILL

To direct the Secretary of Defense to develop a strategy for treating traumatic brain injuries through digital health technologies.

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 “Supporting Modern
5 Approaches in Recovery Technology for Traumatic Brain
6 Injury Act” or the “SMART for TBI Act”.

1 **SEC. 2. STRATEGY FOR TREATING TRAUMATIC BRAIN INJU-**
2 **RIES THROUGH DIGITAL HEALTH TECH-**
3 **NOLOGIES.**

4 Section 735 of the James M. Inhofe National Defense
5 Authorization Act for Fiscal Year 2023 (Public Law 117–
6 263; 10 U.S.C. 1071 note) is amended—

7 (1) by redesignating subsections (e) and (f) as
8 subsections (f) and (g), respectively; and

9 (2) by inserting after subsection (d) the fol-
10 lowing new subsection:

11 “(e) DIGITAL HEALTH TECHNOLOGIES.—

12 “(1) WORKING GROUP.—As part of the Initia-
13 tive, the Secretary shall establish a working group to
14 develop a strategy for treating traumatic brain inju-
15 ries through digital health technologies.

16 “(2) MEMBERSHIP.—The working group shall
17 be composed of members of the Armed Forces, civil-
18 ian employees of the Department of Defense, and in-
19 dividuals not employed by the Federal Government,
20 who have expertise in traumatic brain injury clinical
21 care, biomedical informatics, engineering, or imple-
22 mentation science.

23 “(3) ELEMENTS.—The strategy developed
24 under paragraph (1) shall include the following:

25 “(A) Identification of capability gaps in
26 the treatment of traumatic brain injuries that

1 could be addressed through artificial intel-
2 ligence and digital health technologies.

3 “(B) An analysis of existing research, de-
4 velopment, and acquisition efforts leveraging ar-
5 tificial intelligence-based capabilities and digital
6 health technologies, including any applicable
7 commercial off-the-shelf solutions being used by
8 the Secretary to support the treatment of trau-
9 matic brain injuries.

10 “(C) Recommendations with respect to ad-
11 vances required to—

12 “(i) address gaps identified under
13 subparagraph (A); and

14 “(ii) significantly improve the treat-
15 ment of traumatic brain injuries using ar-
16 tificial intelligence and digital health tech-
17 nologies.

18 “(D) A recommended investment plan to
19 advance technology and knowledge readiness
20 levels to field digital health technologies to treat
21 traumatic brain injuries.

22 “(4) BRIEFING.—Not later than September 30,
23 2026, the Secretary shall provide to the congres-

- 1 sional defense committees a briefing on the strategy
- 2 developed under paragraph (1).”.

○