April 4, 2024

The Honorable Chiquita Brooks-LaSure
Administrator
Centers for Medicare and Medicaid Services
200 Independence Avenue, S.W.
Washington, DC 20201

Re: Anticipated coverage decision of AvertD

Dear Administrator Brooks-LaSure:

We, the undersigned, including experts in the fields of genetics, addiction, psychiatry, public health and device regulation, respectfully request that the Centers for Medicare and Medicaid Services deny coverage of AvertD, a recently approved genetic test that claims it can predict risk for opioid use disorder (OUD). Current scientific knowledge about OUD genetics is strong enough for us to state that AvertD does not predict genetic risk of OUD.

AvertD detects 15 common single nucleotide polymorphisms (SNPs). This test is based on an approach that has been abandoned by mainstream genetics.\(^1\) The largest well-powered and state-of-the-art genome-wide studies of OUD to date demonstrate that even a full genome’s worth of markers (roughly 6,000,000) is not sufficient to predict OUD in a clinically useful way.\(^2\)

The claim that the gene markers underlying AvertD can predict OUD was independently evaluated by geneticists who published their findings in a scholarly peer-reviewed journal.\(^3\) This independent evaluation, using a methodology resembling the one used by AvertD’s sponsor, found that the algorithm used for AvertD fell into known pitfalls of genetic prediction that give the appearance of predicting genetic risk, without being a true measure of genetic risk. With proper controls for ancestry, genetic predictors from the 15 variants used in AvertD did not predict risk of OUD any better than chance.

The harmful consequences of an invalid genetic test for OUD are clear. Patients who test negative, and their clinicians, may have a false sense of security about the use of opioids.

Positive test results may also result in harmful consequences. For example, clinicians might refrain from prescribing opioids to patients who test positive, even in situations where opioids are beneficial. This problem may be magnified in minoritized populations because the gene markers underlying AvertD also show ancestral confounding (i.e., effects associated with

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familial geographic origins, not OUD risk). Moreover, a substantial number of people may be wrongly labeled as prone to OUD, a highly stigmatized medical condition. These patients may face discrimination and other negative health and social consequences. Concern about false positives was one of the reasons that the FDA’s own scientific advisors voted 11-2 against approval of AvertD.4

FDA’s decision to approve AvertD despite opposition from geneticists, other experts, and from its own advisory committee, was surprising. Ironically, FDA has touted its approval of AvertD as a step toward addressing the opioid crisis. We believe AvertD may make the opioid crisis by contributing to overprescribing in patients who falsely test negative.

As the administrator of an agency with the responsibility of providing high quality medical care to more than 100 million people, we urge you to carefully consider the expert consensus on AvertD and deny coverage of this test.

Sincerely,

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Sen. Bill Cassidy, Ranking Member, Senate HELP Committee  
Sen. Ron Wyden, Chair, Senate Finance Committee  
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Rep. Frank Pallone, Jr., Ranking Member, House Energy & Commerce Committee
Rep. Jason Smith, Chair, House Ways & Means Committee
Rep. Richard Neal, Ranking Member, House Ways & Means Committee
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