

1 (b) TECHNICAL AMENDMENTS.—Section 506 of the  
2 Federal Food, Drug, and Cosmetic Act (21 U.S.C. 356)  
3 is amended—

4 (1) by striking “(f) AWARENESS EFFORTS” and  
5 inserting “(e) AWARENESS EFFORTS”; and

6 (2) by striking “(e) CONSTRUCTION” and in-  
7 serting “(f) CONSTRUCTION”.

8 **Subtitle C—FDA Advancement of**  
9 **Precision Medicine**

10 **SEC. 2041. PRECISION MEDICINE GUIDANCE AND OTHER**  
11 **PROGRAMS OF FOOD AND DRUG ADMINIS-**  
12 **TRATION.**

13 Chapter V of the Federal Food, Drug, and Cosmetic  
14 Act (21 U.S.C. 351 et seq.) is amended by adding at the  
15 end the following:

16 **“Subchapter J—Precision Medicine**

17 **“SEC. 591. GENERAL AGENCY GUIDANCE ON PRECISION**  
18 **MEDICINE.**

19 “(a) IN GENERAL.—The Secretary shall issue and  
20 periodically update guidance to assist sponsors in the de-  
21 velopment of a precision drug or biological product. Such  
22 guidance shall—

23 “(1) define the term ‘precision drug or biologi-  
24 cal product’; and

1           “(2) address the topics described in subsection  
2           (b).

3           “(b) CERTAIN ISSUES.—The topics to be addressed  
4 by guidance under subsection (a) are—

5           “(1) the evidence needed to support the use of  
6           biomarkers (as defined in section 507(e)) that iden-  
7           tify subsets of patients as likely responders to thera-  
8           pies in order to streamline the conduct of clinical  
9           trials;

10           “(2) recommendations for the design of studies  
11           to demonstrate the validity of a biomarker as a pre-  
12           dictor of drug or biological product response;

13           “(3) the manner and extent to which a benefit-  
14           risk assessment may be affected when clinical trials  
15           are limited to patient population subsets that are  
16           identified using biomarkers;

17           “(4) the development of companion diagnostics  
18           in the context of a drug development program; and

19           “(5) considerations for developing biomarkers  
20           that inform prescribing decisions for a drug or bio-  
21           logical product, and when information regarding a  
22           biomarker may be included in the approved prescrip-  
23           tion labeling for a precision drug or biological prod-  
24           uct.

1           “(c) DATE CERTAIN FOR INITIAL GUIDANCE.—The  
2 Secretary shall issue guidance under subsection (a) not  
3 later than 18 months after the date of the enactment of  
4 the 21st Century Cures Act.

5           **“SEC. 592. PRECISION MEDICINE REGARDING ORPHAN-**  
6                           **DRUG AND EXPEDITED-APPROVAL PRO-**  
7                           **GRAMS.**

8           “(a) IN GENERAL.—In the case of a precision drug  
9 or biological product that is the subject of an application  
10 submitted under section 505(b)(1), or section 351(a) of  
11 the Public Health Service Act, for the treatment of a seri-  
12 ous or life-threatening disease or condition and has been  
13 designated under section 526 as a drug for a rare disease  
14 or condition, the Secretary may—

15                   “(1) consistent with applicable standards for  
16 approval, rely upon data or information previously  
17 submitted by the sponsor of the precision drug or bi-  
18 ological product, or another sponsor, provided that  
19 the sponsor of the precision drug or biological prod-  
20 uct has obtained a contractual right of reference to  
21 such other sponsor’s data and information, in an ap-  
22 plication approved under section 505(c) or licensed  
23 under section 351(a) of the Public Health Service  
24 Act, as applicable—

1           “(A) for a different drug or biological  
2           product; or

3           “(B) for a different indication for such  
4           precision drug or biological product,

5           in order to expedite clinical development for a preci-  
6           sion drug or biological product that is using the  
7           same or similar approach as that used to support  
8           approval of the prior approved application or license,  
9           as appropriate; and

10          “(2) as appropriate, consider the application for  
11          approval of such precision drug or biological product  
12          to be eligible for expedited review and approval pro-  
13          grams described in section 506, including acceler-  
14          ated approval in accordance with subsection (c) of  
15          such section.

16          “(b) RULE OF CONSTRUCTION.—Nothing in this sec-  
17          tion shall be construed to—

18                 “(1) limit the authority of the Secretary to ap-  
19                 prove products pursuant to this Act and the Public  
20                 Health Service Act as authorized prior to the date  
21                 of enactment of this section; or

22                 “(2) confer any new rights, beyond those au-  
23                 thorized under this Act prior to enactment of this  
24                 section, with respect to a sponsor’s ability to ref-  
25                 erence information contained in another application

1 submitted under section 505(b)(1) of this Act or sec-  
2 tion 351(a) of the Public Health Service Act.”.

3 **Subtitle D—Modern Trial Design**  
4 **and Evidence Development**

5 **SEC. 2061. BROADER APPLICATION OF BAYESIAN STATIS-**  
6 **TICS AND ADAPTIVE TRIAL DESIGNS.**

7 (a) PROPOSALS FOR USE OF INNOVATIVE STATIS-  
8 TICAL METHODS IN CLINICAL PROTOCOLS FOR DRUGS  
9 AND BIOLOGICAL PRODUCTS.—For purposes of assisting  
10 sponsors in incorporating adaptive trial design and  
11 Bayesian methods into proposed clinical protocols and ap-  
12 plications for new drugs under section 505 of the Federal  
13 Food, Drug, and Cosmetic Act (21 U.S.C. 355) and bio-  
14 logical products under section 351 of the Public Health  
15 Service Act (42 U.S.C. 262), the Secretary shall conduct  
16 a public meeting and issue guidance in accordance with  
17 subsection (b).

18 (b) GUIDANCE ADDRESSING USE OF ADAPTIVE  
19 TRIAL DESIGNS AND BAYESIAN METHODS.—

20 (1) IN GENERAL.—The Secretary of Health and  
21 Human Services, acting through the Commissioner  
22 of Food and Drugs (in this subsection referred to as  
23 the “Secretary”), shall—