
Pediatric Study Plans: Content of and Process for Submitting Initial Pediatric Study Plans and Amended Initial Pediatric Study Plans Guidance for Industry

DRAFT GUIDANCE

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For questions regarding this draft document, contact (CDER) Rosemary Addy at 301-796-2200 or (CBER) the Office of Communication, Outreach, and Development at 800-835-4709 or 240-402-8010.

**U.S. Department of Health and Human Services
Food and Drug Administration
Center for Drug Evaluation and Research (CDER)
Center for Biologics Evaluation and Research (CBER)**

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Revision 1**

Pediatric Study Plans: Content of and Process for Submitting Initial Pediatric Study Plans and Amended Initial Pediatric Study Plans Guidance for Industry

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1 **Pediatric Study Plans: Content of and Process for**
2 **Submitting Initial Pediatric Study Plans and**
3 **Amended Initial Pediatric Study Plans**
4 **Guidance for Industry¹**
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9 This draft guidance, when finalized, will represent the current thinking of the Food and Drug
10 Administration (FDA or Agency) on this topic. It does not establish any rights for any person and is not
11 binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the
12 applicable statutes and regulations. To discuss an alternative approach, contact the FDA staff responsible
13 for this guidance as listed on the title page.
14

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16
17
18 **I. INTRODUCTION**
19

20 The purpose of this guidance is to provide information to sponsors regarding the submission of
21 an initial pediatric study plan (iPSP) and any amendments to the iPSP. Specifically, this
22 guidance addresses the Food and Drug Administration's (FDA's) current thinking regarding
23 implementation of the requirement for sponsors to submit an iPSP as described in section
24 505B(e) of the Federal Food, Drug, and Cosmetic Act (FD&C Act), as amended by the Food and
25 Drug Administration Safety and Innovation Act (FDASIA).²
26

27 This guidance addresses the following:
28

- 29 • Who must submit an iPSP
30 • When an iPSP must be submitted
31 • What should be included in an iPSP
32 • What should be included in a requested amendment to an agreed iPSP
33 • A template that should be used for an iPSP submission³
34

¹ This guidance has been prepared by the Pediatric Study Plan Working Group, composed of members from the Center for Drug Evaluation and Research (CDER), the Center for Biologics Evaluation and Research (CBER), and the Office of the Commissioner (OC) at the Food and Drug Administration.

² Public Law 112-144, 126 Stat. 993 (July 9, 2012)

³ In addition to consulting guidance, sponsors are encouraged to contact the specific CDER/CBER review division to discuss specific issues that arise during preparation of the iPSP. Sponsors can request that the review division consult with the Division of Pediatric and Maternal Health in the CDER Office of New Drugs and, if appropriate, the Office of Pediatric Therapeutics in the OC Office of Special Medical Programs.

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35 This guidance does not contain a discussion of general requirements for development of drugs
36 for pediatric use under the Pediatric Research Equity Act (PREA) or the Best Pharmaceuticals
37 for Children Act (BPCA).⁴
38

39 This guidance revises the draft guidance for industry *Pediatric Study Plans: Content of and*
40 *Process for Submitting Initial Pediatric Study Plans and Amended Pediatric Study Plans* issued
41 in July 2013. This revision includes additional clarifications regarding sections previously
42 included in the 2013 guidance as well as new sections that have been added, including: section
43 V.A., Materially Incomplete iPSPs, section VI., Relationship of Agreed iPSP to the Requirement
44 to Submit a Pediatric Plan With an Application, section VII., Contents and Timing of Requested
45 Amendment to an Initial PSP, section VIII., Non-Agreed Initial Pediatric Study Plans, and
46 section IX., Reaching Agreement on the Non-Agreed Initial Pediatric Study Plan. Additionally,
47 Appendix 1, Initial Pediatric Study Plan Template, has been updated.
48

49 In general, FDA’s guidance documents do not establish legally enforceable responsibilities.
50 Instead, guidances describe the Agency’s current thinking on a topic and should be viewed only
51 as recommendations, unless specific regulatory or statutory requirements are cited. The use of
52 the word *should* in Agency guidances means that something is suggested or recommended, but
53 not required.
54

55

II. BACKGROUND

57

58 Over the last 2 decades, the FDA has worked to address the problem of inadequate testing of
59 drugs in pediatric populations and inadequate pediatric use information in drug and biological
60 product labeling. In 1994, the FDA published a final rule that required manufacturers of
61 marketed drugs to survey existing data and determine whether those data were sufficient to
62 support adding pediatric use information to the drug’s labeling.⁵ However, the 1994 rule did not
63 impose a general requirement that manufacturers carry out studies when existing information
64 was not sufficient to support adding pediatric use information. This initial attempt to encourage
65 sponsors to submit pediatric studies and plans to sufficiently inform use of drugs in pediatric
66 patients was not successful in achieving adequate labeling for most drugs and biological products
67 regarding use in the pediatric subpopulation, and product labeling frequently failed to provide
68 directions for safe and effective use in pediatric patients.
69

⁴ For purposes of this guidance, references to *drugs* and *drug and biological products* include drugs approved under section 505 of the FD&C Act (21 U.S.C. 355) and biological drug products licensed under section 351 of the Public Health Service Act (42 U.S.C. 262).

⁵ See “Specific Requirements on Content and Format of Labeling for Human Prescription Drugs; Revision of ‘Pediatric Use’ Subsection in the Labeling” (59 FR 64240, December 13, 1994).

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70 To address this continued problem, the Food and Drug Administration Modernization Act of
71 1997⁶ was signed into law and contained provisions that established incentives for conducting
72 pediatric studies on drugs for which exclusivity or patent protection exists. Also, on December
73 2, 1998, the FDA published a regulation known as the pediatric rule.⁷ This rule partially
74 addressed the lack of pediatric use information by requiring manufacturers of certain new and
75 marketed drugs and biologics to conduct studies to provide sufficient data and information to
76 support directions for pediatric use for the claimed indications. The pediatric rule also stated that
77 the FDA would provide sponsors with its best judgment on whether pediatric studies will be
78 required and whether their submission will be deferred until after approval. This input was given
79 by the FDA at the end-of-phase 1 meeting, for drugs and biologics for life-threatening diseases,⁸
80 and at the end-of-phase 2 meeting, for other drugs, as described in other FDA regulations.⁹

81
82 The pediatric rule also stated that sponsors should submit, at least 1 month in advance of the end-
83 of-phase 2 meeting, certain background information, including a proposed timeline for protocol
84 finalization, enrollment, completion, and data analysis, or, in the alternative, information to
85 support a planned request for waiver or deferral. However, on October 17, 2002, the U.S.
86 District Court for the District of Columbia held that the FDA had exceeded its statutory authority
87 when issuing the pediatric rule and the court suspended the rule's implementation and enjoined
88 its enforcement.¹⁰

89
90 Congress subsequently passed PREA, which was signed into law on December 3, 2003.¹¹ Many
91 of the provisions described under the pediatric rule were adopted under PREA. Under PREA as
92 originally enacted and under its reauthorization under the Food and Drug Administration
93 Amendments Act of 2007, a proposed timeline and plan for the submission of pediatric studies
94 were not required to be submitted during the investigational new drug application (IND) phase of
95 drug development.¹² Under FDASIA, signed into law on July 9, 2012, for the first time PREA
96 includes a provision that requires sponsors planning to submit an application for a drug subject to
97 PREA to submit an iPSP early in the development process. The intent of the iPSP is to identify
98 needed pediatric studies early in development and begin planning for these studies. The timing
99 and content of the submission of an iPSP are described below. FDASIA requires the FDA to
100 promulgate regulations and issue guidance to implement these and other provisions.¹³ The FDA
101 is issuing this guidance and intends to publish a proposed regulation consistent with FDASIA.

⁶ Public Law 105-115, 111 Stat. 2296 (Nov. 21, 1997)

⁷ See “Regulations Requiring Manufacturers to Assess the Safety and Effectiveness of New Drugs and Biological Products in Pediatric Patients” (63 FR 66632, December 2, 1998).

⁸ See 21 CFR 312.81(a).

⁹ See 21 CFR 312.47 and 312.82.

¹⁰ *Association of Am. Physicians & Surgeons, Inc. v. FDA*, 226 F. Supp. 2d 204, 222 (D.D.C. 2002)

¹¹ Public Law 108-155, 117 Stat. 1936 (Dec. 3, 2003)

¹² Public Law 110-85, 121 Stat. 823 (Sept. 27, 2007)

¹³ See section 505B(e)(7) of the FD&C Act; 21 U.S.C. 355c(e)(7).

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III. APPLICATIONS THAT REQUIRE SUBMISSION OF AN INITIAL PSP¹⁴

A sponsor who is planning to submit a marketing application for a drug that includes a new active ingredient, new indication, new dosage form, new dosing regimen, or new route of administration (i.e., that is subject to PREA) is required to submit an iPSP,¹⁵ unless the drug has been granted orphan designation for the proposed indication at the time the iPSP is required.¹⁶ By statute, a biosimilar product that has not been determined to be interchangeable with the reference product is considered to have a *new active ingredient* for purposes of PREA.¹⁷ The sponsor should submit the iPSP to the relevant drug's IND for review by the Center for Drug Evaluation and Research or the Center for Biologics Evaluation and Research as appropriate.¹⁸ A sponsor should submit an iPSP according to the time frame outlined in section IV., Timing of an Initial PSP Submission. Additionally, for drugs that are being developed specifically for use in pediatric populations, an iPSP should be submitted.

If a drug has been previously approved and granted waivers or deferrals under PREA, and the sponsor plans to submit a new application for the same drug that will be subject to PREA, an iPSP must be submitted as described in section IV.¹⁹

IV. TIMING OF AN INITIAL PSP SUBMISSION

A sponsor must submit the iPSP before the date on which the sponsor submits the required assessments and not later than 60 calendar days after the date of the end-of-phase 2 meeting.²⁰ In the absence of an end-of-phase 2 meeting, the sponsor should submit the iPSP as early as

¹⁴ See section 505B(e)(1) of the FD&C Act; 21 U.S.C. 355c(e)(1).

¹⁵ See section 505B(e)(1) of the FD&C Act; 21 U.S.C. 355c(e)(1); and section 505B(a)(1) of the FD&C Act; 21 U.S.C. 355c(a)(1).

¹⁶ See section 505B(k) of the FD&C Act; 21 U.S.C. 355c(k).

¹⁷ See section 505B(m) of the FD&C Act; 21 U.S.C. 355c(m).

¹⁸ See the guidance for industry *Biosimilars: Questions and Answers Regarding Implementation of the Biologics Price Competition and Innovation Act of 2009* and the draft guidance for industry *Biosimilars: Additional Questions and Answers Regarding Implementation of the Biologics Price Competition and Innovation Act of 2009* (when final, this guidance will represent the FDA's current thinking on this topic). For the most recent version of a guidance, check the FDA Drugs guidance Web page at <http://www.fda.gov/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/default.htm>.

¹⁹ See section 505B(e)(1) of the FD&C Act; 21 U.S.C. 355c(e)(1).

²⁰ See section 505B(e)(2)(A) of the FD&C Act; 21 U.S.C. 355c(e)(2)(A). Section 505B(e)(2)(A) specifies the time frame for submission of an iPSP if there is an end-of-phase 2 meeting or such other time as may be agreed upon between the FDA and the sponsor. The FDA expects to agree to time frames other than those specified in this guidance only if there are exceptional circumstances. Sponsors should contact the appropriate component of CDER or CBER if they believe exceptional circumstances exist.

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128 practicable but before the initiation of any phase 3 studies, or any combined phase 2 and phase 3
129 studies, of the drug that is the subject of the iPSP. If a phase 3 study, or a combined phase 2 and
130 phase 3 study, will not be conducted, the sponsor should submit the iPSP no later than 210
131 calendar days before it submits a marketing application or supplement. A sponsor should submit
132 the iPSP to its IND for the drug. In cases when there is no active IND for the drug, but the
133 sponsor expects upon submission of the IND that the initial studies would include a phase 3
134 study, the iPSP should be submitted as a pre-IND submission. In this situation, the FDA
135 encourages sponsors to schedule a pre-IND meeting before submission of the iPSP, and, as stated
136 above, the sponsor should submit the iPSP before the initiation of any phase 3 studies or
137 combined phase 2 and phase 3 studies.²¹

138
139 A sponsor should not submit a marketing application or supplement until agreement has been
140 reached on the iPSP. Although a formal decision by the FDA about granting a waiver and/or
141 deferral of required pediatric assessments will not be made until approval of the marketing
142 application, the sponsor will receive feedback at the time of the review of the iPSP on the plan to
143 request a waiver and/or deferral upon submission of the marketing application. For example, this
144 feedback may include recommendations on the timing of pediatric drug development with the
145 aim of including pediatric data in the initial marketing application, rather than needing a deferral.

146
147 After an iPSP is submitted by the sponsor, the FDA has 90 days to review the iPSP and provide
148 comments to the sponsor.²² A second 90-day review period is initiated after the sponsor has
149 received these comments. By the end of this second 90-day review period, the sponsor must
150 submit an agreed iPSP.²³ The FDA then has 30 days to review and issue correspondence
151 confirming agreement, or issue correspondence stating that the FDA does not agree. If the FDA
152 does not agree, the iPSP is considered a *non-agreed iPSP* (see section VIII., Non-Agreed Initial
153 Pediatric Study Plans). The total length for review of an iPSP is 210 days.

V. CONTENTS OF THE INITIAL PSP

154
155
156
157
158 The FD&C Act requires that an iPSP include “(i) an outline of the pediatric study or studies that
159 the sponsor plans to conduct (including, to the extent practicable study objectives and design, age
160 groups, relevant endpoints, and statistical approach); (ii) any request for a deferral, partial
161 waiver, or waiver . . . if applicable, along with any supporting information; and (iii) other
162 information specified in the regulations” promulgated by the FDA.²⁴ This section of the

²¹ Information on the timing of submission of an iPSP for biosimilar products can be found in the draft guidance for industry *Biosimilars: Additional Questions and Answers Regarding Implementation of the Biologics Price Competition and Innovation Act of 2009*.

²² See section 505B(e)(2) of the FD&C Act; 21 U.S.C. 355c(e)(2).

²³ See section 505B(e)(3) of the FD&C Act; 21 U.S.C. 355c(e)(3).

²⁴ See section 505B(e)(2)(B) of the FD&C Act; 21 U.S.C. 355c(e)(2)(B).

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163 guidance describes information sponsors must or should submit in the iPSP submission.²⁵ In
164 certain situations, it may be premature to include a detailed outline of a planned pediatric study
165 (or studies) because additional data are needed (e.g., efficacy, safety, potential endpoints). In
166 such cases, the outline of the pediatric studies should include a brief explanation for not
167 including more detailed information.

168
169 Appendix 1 provides a template that sponsors should complete with all information available at
170 the time of the iPSP submission.²⁶ The FDA acknowledges that the development program for a
171 drug may change based on data collected from nonclinical studies, clinical trials, and/or other
172 clinical development programs. Therefore, sponsors should consider the current stage of the
173 clinical development program for their specific drug at the time they complete the iPSP template.
174 Additionally, sponsors can submit amendments to an agreed-upon iPSP at any time²⁷ if changes
175 to the pediatric plan need to be considered based on additional data described above. Submission
176 of amendments to an agreed iPSP are discussed in section VII., Contents and Timing of
177 Requested Amendment to an Initial PSP.

178
179 Earlier dialogue on a comprehensive pediatric development plan, including both required
180 pediatric studies under PREA and potential pediatric uses under the BPCA, is intended to result
181 in a more efficient pediatric drug development program. Toward this end, sponsors can include
182 information in the iPSP (see section 2 in section V.B., Recommendations for the Contents of
183 Each Section of the iPSP) about plans for submission of a concurrent or future proposed
184 pediatric study request (PPSR), as appropriate. However, the iPSP and PPSR should be
185 submitted as separate documents to facilitate appropriate review and comment by the FDA.

186
187 As stated above, although a formal decision by the FDA about granting a waiver and/or deferral
188 of required pediatric assessments will not be made until approval of the marketing application,
189 the information contained in an agreed iPSP will be considered in any requests for waiver and/or
190 deferral at the time of the application review.

191

A. Materially Incomplete iPSPs

192

193
194 Failure to include required information as described above may result in an iPSP that is
195 considered *materially incomplete*. For example, if a sponsor fails to address all pediatric age
196 groups and all indications, the FDA would consider the iPSP to be materially incomplete. If the
197 iPSP is considered materially incomplete, the sponsor will be contacted and a complete iPSP
198 should be submitted within 30 days to address the identified deficiencies. A new 210-day review
199 period will be started when a complete iPSP is submitted.

200

²⁵ The iPSP submission itself should be marked with the words “**INITIAL PEDIATRIC STUDY PLAN**” in large font, bolded type at the beginning of the title page.

²⁶ This template also is available at <http://www.fda.gov/downloads/Drugs/DevelopmentApprovalProcess/DevelopmentResources/UCM338453.pdf>.

²⁷ See section 505B(e)(5) of the FD&C Act; 21 U.S.C. 355c(e)(5).

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201 However, if the sponsor has included sufficient information for the FDA to evaluate the plan,
202 even if the FDA disagrees with the proposed plan, the FDA in general will consider the iPSP to
203 be complete. For example, if a sponsor has included a plan to request full waivers as part of the
204 iPSP, and the FDA disagrees with this plan, then the FDA would not consider this iPSP
205 materially incomplete and would proceed with the usual timeline for internal review.
206

B. Recommendations for the Contents of Each Section of the iPSP

207
208
209 This section provides specific recommendations for the contents of each section of the iPSP.
210

TITLE PAGE

211
212
213 Sponsors should include relevant administrative information on the title page (e.g., drug name,
214 IND number, indication(s) that apply) (see Appendix 1).
215

1. Overview of the Disease Condition in the Pediatric Population

216
217
218 This section should briefly summarize (1 to 3 pages)²⁸ available information on the
219 pathophysiology of the disease, methods of diagnosis, and currently available treatments and/or
220 prevention strategies in the pediatric population, including neonates. The sponsor should also
221 include available information on the incidence and prevalence of the disease in the overall
222 population and the incidence and prevalence in the pediatric population. Additionally, the
223 sponsor should provide evidence and assumptions on key differences between the disease in
224 adults and in the pediatric population.
225

2. Overview of the Drug or Biological Product

226
227
228 This section should briefly summarize (1 to 3 pages) the proposed mechanism of action of the
229 drug (to the extent understood). A broad consideration of any possible therapeutic uses of the
230 drug in children beyond the disease or indication being sought in adults may serve as the basis
231 for a Written Request under section 505A of the FD&C Act (21 U.S.C. 355a). The FDA
232 encourages sponsors to discuss the potential therapeutic benefits and/or fulfillment of therapeutic
233 needs in the pediatric population, including neonates, beyond the indication(s) for which
234 pediatric assessments will be required under PREA. Any changes to this discussion of the use of
235 the drug, including any clinical studies that may be proposed other than those required under
236 PREA, will not require an amendment to an agreed iPSP. If a sponsor plans to submit a PPSR
237 asking the FDA to issue a Written Request in the future, that information should be included in
238 the overview as appropriate.²⁹ Sponsors seeking FDA review and comments on proposed
239 pediatric studies that could be conducted under a pediatric Written Request, in addition to those
240 required under PREA and included in the iPSP, should submit a separate PPSR.
241

²⁸ The recommended page counts for each section of the iPSP applies to the overall iPSP and not to the individual active ingredients in the case of a fixed-dose combination product.

²⁹ For additional information regarding Written Requests, see section 505A of the FD&C Act; 21 U.S.C. 355a.

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242 **3. Overview of Planned Extrapolation of Effectiveness to Specific Pediatric** 243 **Populations**

244
245 The iPSP should address whether extrapolation of effectiveness to pediatric populations is
246 planned for the proposed product. Extrapolation of effectiveness from adult populations to
247 pediatric populations may be appropriate if the course of the disease and the effects of the drug
248 are sufficiently similar in adult and pediatric patients.³⁰ Extrapolation of effectiveness from one
249 pediatric age group to another pediatric age group also may be appropriate.³¹ Extrapolation of
250 effectiveness assumes that an appropriate pediatric dose can be established either through
251 achieving a similar exposure in children as in adults, or by using an appropriate
252 pharmacodynamic or clinical endpoint to achieve the targeted effect.³² This section should
253 address any plans to extrapolate effectiveness from adult to pediatric patients or from one
254 pediatric age group to another (1 to 5 pages). The sponsor should consider all age ranges of
255 pediatric patients, including neonates. The sponsor should provide justification for the
256 extrapolation, including any available supporting data for all age groups for which the sponsor
257 intends to extrapolate effectiveness. This justification should include supportive data from all
258 available sources (e.g., sponsor data, published literature, expert panels, and workshops).
259 Extrapolation of effectiveness for other drugs in the same class, if previously accepted by the
260 FDA, also may be considered supportive information.

261
262 However, if an understanding of exposure-response in adults that can be applied to pediatrics (or
263 from one pediatric age group to another) has not yet been established, the ability to extrapolate
264 effectiveness may not be known at the time of the iPSP submission. If the ability to extrapolate
265 effectiveness from adults to children is not known at the time of the iPSP submission, the
266 sponsor must include a plan for studies to establish pediatric effectiveness in the iPSP.³³
267 Subsequently, if information becomes available to support pediatric extrapolation, a proposed
268 amendment to the agreed iPSP can then be submitted that addresses any modifications based on
269 extrapolation in the marketing application or supplement.

270
271 When determining whether the data are sufficient or will be used to support extrapolation of
272 effectiveness, sponsors should include information in the iPSP on the similarities (and
273 differences) between, for example, adults and children (or between one pediatric age group and
274 another) in disease pathogenesis, criteria for disease definition, clinical classification, and
275 measures of disease progression, as well as pathophysiologic, histopathologic, and
276 pathobiological characteristics of the disease. In addition, if appropriate, the sponsor should
277 include discussion on similarity in exposure-response relationship for effectiveness between
278 adults and pediatrics based on experience with drugs in the same class or other drugs approved
279 for use in the same disease/disorder. Extrapolation of effectiveness from one pediatric age group

³⁰ See section 505B(a)(2)(B)(i) of the FD&C Act; 21 U.S.C. 355c(a)(2)(B)(i).

³¹ See section 505B(a)(2)(B)(ii) of the FD&C Act; 21 U.S.C. 355c(a)(2)(B)(ii).

³² For further discussion, see the draft guidance for industry *General Clinical Pharmacology Considerations for Pediatric Studies for Drugs and Biological Products* and the Pediatric Study Planning & Extrapolation Algorithm in its Appendix. When final, this guidance will represent the FDA's current thinking on this topic.

³³ See section 505B(a)(2) of the FD&C Act; 21 U.S.C. 355c(a)(2).

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280 to another, often from older to younger patients, and from one formulation to another should be
281 discussed when applicable. The use of modeling and simulation to optimize studies to support
282 extrapolation should be discussed when applicable.

283
284 In certain circumstances one may be able to leverage existing safety information in adults or
285 other pediatric populations to draw inferences about the safety of the drug in one or more
286 pediatric populations. For example, for a drug that is approved for another pediatric indication
287 that has similar dosing as the new indication, it may be possible to use the existing safety data to
288 support safety for the new indication. For other drugs that may have disparate pediatric and
289 adult safety profiles, such as drugs that act in the central nervous system, the adult safety data
290 may not be relevant to the pediatric safety population. Similarly, a dedicated pharmacokinetic
291 (PK) study is not always needed in every age group. For example, prior experience with dosing
292 in adolescent patients has demonstrated that knowledge of adult dosing and appropriate dose
293 scaling may be sufficient for some drugs with adequate justification.^{34,35} Confirmatory
294 population PK studies can be used to supplement such a program in which a dedicated PK study
295 is not considered essential.

4. Request for Drug-Specific Waiver(s)

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297
298
299 Under PREA, sponsors may request waiver of pediatric assessments at the time of the
300 submission of the new drug application (NDA), biologics license application (BLA), or
301 supplement.³⁶ PREA authorizes the FDA to grant a full waiver of required assessments if it finds
302 that: (1) necessary studies are impossible or highly impracticable (because, for example, the
303 number of patients is so small or the patients are geographically dispersed); (2) there is evidence
304 strongly suggesting that the drug or biological product would be ineffective or unsafe in all
305 pediatric age groups; or (3) the drug or biological product does not represent a meaningful
306 therapeutic benefit over existing therapies for pediatric patients and is not likely to be used in a
307 substantial number of pediatric patients.³⁷

308
309 In addition, PREA authorizes the FDA to grant a partial (i.e., with respect to a specific pediatric
310 age group) waiver of required pediatric assessments if it finds that: (1) necessary studies are
311 impossible or highly impracticable (because, for example, the number of patients in that age
312 group is so small or the patients in that age group are geographically dispersed); (2) there is

³⁴ Momper JD, Mulugeta Y, Green DJ, et al., 2013, Adolescent Dosing and Labeling Since the Food and Drug Administration Amendments Act of 2007, *JAMA pediatrics*, Oct;167(10):926-932.

³⁵ Edginton AN, Shah B, Sevestre M, Momper JD, 2013, The Integration of Allometry and Virtual Populations to Predict Clearance and Clearance Variability in Pediatric Populations Over the Age of 6 Years, *Clinical Pharmacokinetics*, Aug;52(8):693-703.

³⁶ Under PREA, a pediatric assessment “shall contain data, gathered using appropriate formulations for each age group for which the assessment is required, that are adequate (i) to assess the safety and effectiveness of the drug or the biological product for the claimed indications in all relevant pediatric subpopulations; and (ii) to support dosing and administration for each pediatric subpopulation for which the drug or the biological product is safe and effective.” See section 505B(a)(2)(A) of the FD&C Act; 21 U.S.C. 355c(a)(2)(A). Also, see section 505B(a)(4) of the FD&C Act regarding waivers of pediatric assessments.

³⁷ See section 505B(a)(4)(A) of the FD&C Act; 21 U.S.C. 355c(a)(4)(A).

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313 evidence strongly suggesting that the drug or biological product would be ineffective or unsafe in
314 that age group; (3) the drug or biological product does not represent a meaningful therapeutic
315 benefit over existing therapies for pediatric patients in that age group and is not likely to be used
316 in a substantial number of pediatric patients in that age group; or (4) the sponsor can demonstrate
317 that reasonable attempts to produce a pediatric formulation necessary for that age group have
318 failed.³⁸

319
320 This section should discuss the plans to request a waiver (either full or partial) of the requirement
321 to provide data from pediatric studies (1 to 3 pages). Because an agreed iPSP that may contain
322 plans for requests for waivers must be submitted with the NDA/BLA along with the formal
323 waiver request, the information in this section should be as complete as possible and updated as
324 needed.³⁹ The sponsor should provide justification with a summary of supporting data, for all
325 age groups for which the waiver will be sought. Supportive data should include data from all
326 relevant sources, including sponsor data, published literature, expert panels and workshops, and
327 consensus documents. Full or partial waivers previously granted for other drugs in the same
328 class can be considered supportive information.

329
330 If the FDA agrees that a plan for a waiver is reasonable early in the preapproval development
331 period (e.g., end-of-phase 1 or end-of-phase 2 meetings), such agreement would reflect the
332 FDA's best judgment at that time. If, before approval of an application, the FDA or the sponsor
333 become aware of new or additional information that affects the decision to plan for a waiver (or
334 partial waiver) of pediatric assessments, the sponsor should reconsider the plan to request the
335 waiver/partial waiver. If the sponsor becomes aware of new information, the sponsor should
336 submit an amended iPSP at the earliest possible time. If the FDA becomes aware of new
337 information, it will notify the sponsor at the earliest possible time and request that the sponsor
338 amend the iPSP to reflect the new information (see section VI., Relationship of Agreed iPSP to
339 the Requirement to Submit a Pediatric Plan With an Application). Such agreement could include
340 a plan for deferral of pediatric studies if necessary. The FDA formally grants or denies a waiver
341 request when it issues an approval letter for an NDA, BLA, or supplement.

342
343 Sponsors seeking a full waiver of pediatric studies should complete only sections 1, 2, 4, and 12
344 of the iPSP template (see Appendix 1).

345
346 If studies will be waived because there is evidence that the drug would be ineffective or unsafe in
347 any pediatric age group, this information must be included in the product labeling.⁴⁰ Generally,
348 this information would be included in the *Pediatric Use* subsection of labeling and also can be
349 included in the CONTRAINDICATIONS or WARNINGS AND PRECAUTIONS sections,
350 depending on the seriousness of any safety concern that would be the grounds for waiver of
351 pediatric studies.

352

³⁸ See section 505B(a)(4)(B) of the FD&C Act; 21 U.S.C. 355c(a)(4)(B).

³⁹ See 21 CFR 314.101(d)(3).

⁴⁰ See section 505B(a)(4)(D) of the FD&C Act; 21 U.S.C. 355c(a)(4)(D).

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5. Plan to Request Deferral of Pediatric Studies

Under PREA, sponsors may request deferral of pediatric assessments at the time of the submission of the NDA, BLA, or supplement.⁴¹ Because an agreed iPSP that may contain plans for requests for deferral of pediatric assessments must be submitted with the NDA/BLA along with the formal deferral request,⁴² the information in this section should be as complete as possible and updated as needed. The iPSP should include any plans to request deferral of pediatric assessments in some or all pediatric groups until after approval of a future application (or supplement) in other age groups. If new information, such as data from ongoing or planned studies, indicates that a criterion for a waiver (or partial waiver) is met, planned requests for deferral of pediatric assessments in the iPSP can be changed to planned requests for waiver (or partial waiver). These changes should be submitted as an amendment to an agreed or amended iPSP.

For any studies listed in the sample table in section 6 of planned nonclinical and pediatric clinical studies that will not be submitted as part of a planned application (i.e., NDA, BLA, or efficacy supplement), sponsors must include their plan to submit a request for a deferral.⁴³ PREA also states that at the time of approval of an application, the FDA may grant a deferral of required pediatric assessments if it finds that: (1) the drug or biological product is ready for approval for use in adults before pediatric studies are complete; (2) pediatric studies should be delayed until additional safety or effectiveness data have been collected; or (3) there is another appropriate reason for deferral.⁴⁴ The planned request for a deferral should be listed in the order of the proposed studies in the sample table in section 6, and should include adequate justification and any currently available evidence justifying the request for a deferral (1 to 2 pages). If the FDA agrees that a plan for a deferral is reasonable early in the preapproval development period (e.g., end-of-phase 1 or end-of-phase 2 meetings), such agreement would reflect its best judgment at that time.

If, before approval of an application, the FDA or the sponsor becomes aware of new or additional information that affects the decision to plan for a deferral of pediatric assessments, the sponsor should reconsider the plan to request a deferral. If the sponsor becomes aware of new information, it should submit an amended iPSP at the earliest possible time. If the FDA becomes aware of new information, it will notify the sponsor at the earliest possible time and request that

⁴¹ Under PREA, a pediatric assessment “shall contain data, gathered using appropriate formulations for each age group for which the assessment is required, that are adequate (i) to assess the safety and effectiveness of the drug or the biological product for the claimed indications in all relevant pediatric subpopulations; and (ii) to support dosing and administration for each pediatric subpopulation for which the drug or the biological product is safe and effective.” See section 505B(a)(2)(A) of the FD&C Act; 21 U.S.C. 355c(a)(2)(A). Also, see section 505(B)(a)(3) of the FD&C Act regarding deferrals of pediatric assessments.

⁴² See sections 505B(a)(1), 505B(a)(3)(A)(ii), and 505B(e) of the FD&C Act; see also 21 CFR 314.101(d).

⁴³ See section 505B(e)(2)(B)(ii) of the FD&C Act; 21 U.S.C. 355c(e)(2)(B)(ii).

⁴⁴ See section 505B(a)(3)(A)(i) of the FD&C Act; 21 U.S.C. 355c(a)(3)(A)(i). In addition, the sponsor must submit: (1) a certification of the grounds for deferring the assessments; (2) a iPSP; (3) evidence that the studies are being conducted or will be conducted with due diligence and at the earliest possible time; and (4) a timeline for the completion of the studies. See section 505B(a)(3)(A)(ii) of the FD&C Act; 21 U.S.C. 355c(a)(3)(A)(ii).

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386 the sponsor amend the iPSP to reflect the new information (see section VI., Relationship of
387 Agreed iPSP to the Requirement to Submit a Pediatric Plan With an Application). In addition,
388 new information may become available that could support changing the plans for a deferred
389 study to a waiver (e.g., new safety information). The FDA would review this information and
390 consider whether a plan for a deferred study should be converted to a waiver. It should be noted
391 that the FDA does not formally grant or deny a request for a deferral in the iPSP. The FDA
392 formally grants or denies a deferral when it issues an approval letter for an NDA, BLA, or
393 supplement.

6. Tabular Summary of Planned Nonclinical and Clinical Studies

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396
397 This section should include a summary in tabular form of all planned: (1) nonclinical studies to
398 be conducted in support of the proposed clinical trials (see also section 7); and (2) clinical
399 pediatric studies (categorized by age). The table should include a column to identify whether the
400 sponsor will request a deferral of the study (i.e., the data are not planned to be submitted until
401 after the application is approved). The table should also include any age groups for which the
402 sponsor will request waivers. A sample table is included below. It should be noted that the table
403 is provided as an example only. The specific studies planned for a specific drug (e.g., the type of
404 studies and the age groups studied) may differ from those studies listed in the sample table.

405
406 **SAMPLE TABLE: Table of Nonclinical and Clinical Studies for Drug X**

PLANNED NONCLINICAL STUDIES*			
Species	Type of Study	Comments	Deferral Request Planned for the Study (Y/N)**
Rat (or appropriate animal species)	Toxicology study in juvenile animals	To support initiation of clinical studies in children ages x – xx	N
PLANNED PEDIATRIC CLINICAL STUDIES			
Pediatric PK Studies ⁺			
Age Group	Type of Study	Comments	Deferral Request Planned for the Study (Y/N)
1-<17 years	Phase 2 PK/PD study ⁺	To determine appropriate dose based on an established PD endpoint	N
Clinical Effectiveness and Safety Studies			
Age Group	Type of Study	Comments	Deferral Request Planned for the Study (Y/N)
0-<1 year	Not applicable (plan to request waiver)	Studies are highly impracticable	
1-<6 years	Efficacy study (R, DB, PC) ⁺	Endpoints to be determined	Y
6-<12 years	Efficacy study (R, DB, PC)	Endpoints to be determined	Y
12-<17 years	Efficacy study (R, DB, PC)	Study to be submitted with initial NDA	N

407 * May not be applicable for all drugs.

408 ** See section 11 of the Initial Pediatric Study Plan Template.

409 ⁺ PK = pharmacokinetic; PD = pharmacodynamic; R = randomized; DB = double-blind; PC = placebo-controlled

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7. Age-Appropriate Formulation Development

This section should provide details of any pediatric-specific formulation development plans, if appropriate, including whether the formulation being developed can be used for all pediatric populations (1 to 3 pages). If the current formulation is not suitable for all pediatric age groups, sponsors should provide specific plans for the development of an age-appropriate formulation for all pediatric age groups that will be studied. Sponsors should include information regarding planned excipients, to the extent practicable, which will be contained in a pediatric formulation. Sponsors also should provide details of measures taken to ensure appropriate design of a drug, including to the extent practicable the design of delivery systems (i.e., capsules, tablets, infusions, devices) to be used in pediatric studies.⁴⁵

8. Nonclinical Studies

This section should provide a brief summary (1 to 3 pages) of the data from relevant nonclinical studies that support the use of the drug in all pediatric age groups the sponsor will study in the proposed clinical trials. The sponsor should include information that supports the maximum dose and duration of treatment to be used in pediatric studies. If the sponsor has determined that the nonclinical data are sufficient to support the proposed clinical trials and additional nonclinical studies are **not** planned, this summary should so state and include justification for this conclusion.

If the existing nonclinical data are not sufficient to support the proposed clinical trials, sponsors should provide a brief description for each of the studies they will conduct, including, at a minimum:

- The species to be studied
- The age of animals at the start of dosing
- The duration of dosing
- The route of administration
- The target organ systems of concern with key developmental endpoints to be evaluated, as appropriate

⁴⁵ More detail on considerations for age-appropriate formulations can be found in the 2014 EMA Guideline on Pharmaceutical Development of Medicines for Pediatric Use (http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/general/general_content_000362.jsp&mid=WC0b01ac0580028eb2).

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448 For further information see other guidances, as appropriate.⁴⁶

449
450 These studies should be listed in the table in section 6 and the timeline for conduct of any studies
451 should be noted as described in section 11.

9. Clinical Data to Support Design and/or Initiation of Studies in Pediatric Patients

454
455 This section should provide a brief summary (1 to 5 pages) of any clinical data that support the
456 design and/or initiation of pediatric studies. This section also can include a summary of
457 available data in adult or pediatric patients who have received treatment with the drug (or related
458 drugs) for the proposed indication, for other conditions, or in earlier studies. This section is
459 intended to provide an overview of information already available to support initiation of
460 pediatric studies; therefore, a detailed review of available data is not needed in this section.

10. Planned Pediatric Clinical Studies

10.1 Pediatric Pharmacokinetic Studies

463
464
465 This section should provide an outline of each of the pediatric
466 pharmacokinetic/pharmacodynamic (PK/PD) study (or studies) planned, if applicable (1 to 10
467 pages). The studies should be discussed in the order they are presented in the table in section 6.
468 For each study, to the extent practicable, the sponsor should address the following:

- 469
470
- 471 • The type of study/study design
 - 472
 - 473 • The objectives of the study
 - 474
 - 475 • The age group and population in which the study will be conducted
 - 476
 - 477 • The pediatric formulation(s) to be used in the study
 - 478
 - 479 • The dose ranges to be used in the PK studies
 - 480
 - 481 • The endpoints and justification (PK parameters; PD biomarkers)
 - 482
 - 483 • The existing or planned modeling and simulation to support dose selection and/or study
 - 484 design, data analysis, and interpretation for planned pediatric studies
 - 485
 - 486 • Any planned pharmacogenomic analyses
 - 487
 - 488 • Sample size justification
 - 489

⁴⁶ See the guidance for industry *Nonclinical Safety Evaluation of Pediatric Drug Products* and the ICH guidances for industry *M3(R2) Nonclinical Safety Studies for the Conduct of Human Clinical Trials and Marketing Authorization for Pharmaceuticals* and *S9 Nonclinical Evaluation for Anticancer Pharmaceuticals*.

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490 A statement should be included indicating that a final protocol(s) will be agreed upon with the
491 FDA before initiation of the studies.

492

10.2 Clinical Effectiveness and Safety Studies

494

495 This section should provide a brief outline of each pediatric study planned, discussed in the order
496 they are presented in the table in section 6 (1 to 10 pages). For each study, to the extent
497 practicable, the sponsor should address the following:

498

499 • The type of study/study design

500

501 • The objectives of the study

502

503 • The age group and population in which the study will be conducted

504

505 • The key inclusion and exclusion criteria for the study

506

507 • The endpoints (primary and key secondary) to be used

508

509 • The timing of endpoint assessments

510

511 • The safety assessments (including timing and length of follow-up)

512

513 • The statistical approach

514

515 • The modeling and simulation to be used to optimize the design of planned pediatric
516 studies when applicable

517

518 This section should provide a brief outline of the planned pediatric studies. Therefore, a detailed
519 study protocol and/or statistical analysis plan should not be included in the iPSP. Sponsors
520 should be aware that agreement with the outline of planned clinical studies does not constitute
521 agreement with the study protocol. Full study protocols and statistical analysis plans should be
522 submitted separately for review and agreement with the FDA before initiation of pediatric
523 studies outlined in this section.

524

11. Timeline of the Pediatric Development Plan

526

527 For each study listed in the table in section 6, a general timeline for completion should be
528 included in this section (1 to 2 pages). A suggested template is provided below. The sponsor
529 should estimate these dates based on current projections for the drug development program. As
530 stated above, the intent of the iPSP is to identify needed pediatric studies early in drug
531 development and begin planning for these studies. Therefore, the timeline of the pediatric
532 development plan should be based on clinical and scientific considerations, and independent of
533 an anticipated submission date of an application or approval date of a drug. For example,
534 formulation development can begin well before the anticipated submission date of an application
535 or approval date of a drug. If the dates provided in the iPSP change as drug development

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536 proceeds, the sponsor should submit a request to amend the iPSP. Furthermore, the request
537 should include justification for the change in the dates provided below for amendment of the
538 iPSP.

539

540 1. Formulation development, if applicable

541

542 2. Nonclinical studies, if applicable

543 – Estimated protocol submission date: No later than ___(month/year)

544 – Estimated study initiation date: No later than ___(month/year)

545 – Estimated study completion date: No later than ___(month/year)

546 – Estimated final report submission date: No later than ___(month/year)

547

548 3. Clinical studies

549 • PK studies, if applicable:

550 – Estimated protocol submission date: No later than ___(month/year)

551 – Estimated study initiation date: No later than ___(month/year)

552 – Estimated study completion date: No later than ___(month/year)

553 – Estimated final report submission date: No later than ___(month/year)

554

555 • Efficacy/safety studies, if applicable

556 – Estimated protocol submission date: No later than ___(month/year)

557 – Estimated study initiation date: No later than ___(month/year)

558 – Estimated study completion date: No later than ___(month/year)

559 – Estimated final report submission date: No later than ___(month/year)

560

561 4. Target date of application submission

562

12. Agreements for Pediatric Studies With Other Regulatory Authorities

563

565 Sponsors should include, if available, a summary (1 to 3 pages) of the most recent agreed
566 pediatric investigation plan with other regulatory authorities (e.g., European Medicines Agency
567 (EMA)). If negotiations with a regulatory authority are in progress or previous plans are under
568 modification, a summary of the most recent draft plan should be included. Sponsors should
569 highlight and comment on any differences with what is submitted to the FDA. The purpose of
570 including a summary of agreements with other regulatory authorities is to encourage global
571 alignment in pediatric development plans across regulatory authorities when possible.

572

573

VI. RELATIONSHIP OF AGREED iPSP TO THE REQUIREMENT TO SUBMIT A PEDIATRIC PLAN WITH AN APPLICATION

574

577 For NDAs, BLAs, or supplemental applications that are subject to PREA, sponsors must include
578 an iPSP in the application when a deferral of pediatric studies is requested.⁴⁷ In such cases, the
579 agreed iPSP or amended agreed iPSP serves as that plan and must be included in the appropriate

⁴⁷ See section 505B(a)(3)(A)(ii)(II) of the FD&C Act.

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580 section of the application.⁴⁸ Furthermore, any planned requests for waivers and/or deferrals
581 included in the agreed iPSP or amended agreed iPSP will serve as the official request to either
582 defer and/or waive studies if requested at the time of the application submission. The agreed
583 iPSP (or amended agreed iPSP), including any requests for waivers or deferrals under PREA,
584 will be reviewed by the Pediatric Review Committee (PeRC), and a decision about granting or
585 denying any such requests will be made during the review of the marketing application.
586
587

VII. CONTENTS AND TIMING OF REQUESTED AMENDMENT TO AN INITIAL PSP

591 As stated above, sponsors can request to amend an agreed iPSP at any time. Requests can
592 include, for example, changes to an original milestone submission date that would significantly
593 delay the initiation and/or completion of pediatric studies (e.g., more than 12 months), changing
594 planned requests for a deferral to planned requests for a waiver or partial waiver, or changing a
595 planned request for a waiver or partial waiver to a planned request for a deferral. For example,
596 emerging safety data from nonclinical juvenile animal studies and/or adult human clinical trials
597 may support converting a planned request for a deferral to a planned request for a waiver for
598 reasons of safety. Alternatively, the need for additional safety data from adult human clinical
599 trials may support a delay in the initiation of pediatric clinical trials. Significant amendments to
600 an agreed iPSP will be reviewed by the PeRC.
601

602 A request for an amendment to an agreed iPSP should include:

- 603 • Specifications of the requested change(s), along with a justification for the requested
604 change(s)
- 605
- 606
- 607 • A copy of the agreed iPSP with the requested change(s) shown in red
- 608
- 609 • A clean copy of the amended iPSP
- 610

611 Amendments should not be considered agreed with the FDA until a letter stating that the
612 amendments are acceptable has been received.
613

614 If an amendment to an agreed iPSP is submitted within 210 days of the planned submission of an
615 NDA, BLA, or supplement, the amendment may not be considered agreed absent sufficient time
616 for the FDA review. However, the NDA, BLA, or supplement can be submitted as long as the
617 applicant includes the previously agreed iPSP as part of the application.⁴⁹ Any changes will be
618 considered during the application review cycle (see section VIII., Non-Agreed Initial Pediatric
619 Study Plans).
620

⁴⁸ See section 505B(a)(3)(A)(ii)(II) of the FD&C Act.

⁴⁹ See 21 CFR 314.101(d). Section 505B(a) of the FD&C Act requires that the necessary pediatric assessments must be submitted with the application; if the assessments will not be ready for submission with the NDA or BLA, the sponsor must include in its iPSP plans to request a deferral.

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621 However, if, under certain situations, the agreed iPSP included nonclinical and/or pediatric
622 clinical studies that were expected to have been completed before submission of the NDA, BLA,
623 or supplement, failure of the sponsor to complete these agreed studies in a timely manner may
624 result in a refusal to file. In this situation, a sponsor should submit a request for an amendment
625 to the agreed iPSP that includes a justification for the delay in completing one or more of the
626 agreed pediatric studies.

627

628

VIII. NON-AGREED INITIAL PEDIATRIC STUDY PLANS

629

631 If the FDA and the sponsor are unable to reach agreement on an iPSP at the end of the 210-day
632 review period, the FDA will issue correspondence stating that the iPSP is considered a non-
633 agreed iPSP. As discussed in section IX., Reaching Agreement on the Non-Agreed Initial
634 Pediatric Study Plan, there is no established timeline for the review and agreement of a non-
635 agreed iPSP. Therefore, every attempt should be made to reach agreement during the initial 210-
636 day review period. Furthermore, as stated in section VII., Contents and Timing of Requested
637 Amendment to an Initial PSP, an agreed iPSP or agreed amended iPSP must be submitted when
638 a deferral of pediatric studies is requested.

639

640 Sponsors also can request amendments to an agreed iPSP (see section VI., Relationship of
641 Agreed iPSP to the Requirement to Submit a Pediatric Plan With an Application). If the FDA
642 and the sponsor are unable to reach agreement on the proposed amendments, the FDA will issue
643 correspondence stating that the amended iPSP is considered a *non-agreed amended iPSP*. Under
644 this circumstance, the agreed iPSP will be considered to be in force until such time that
645 agreement on an amended iPSP is reached. If agreement is not reached before the submission of
646 a marketing application when a deferral of pediatric studies is requested, then the agreed iPSP
647 and all correspondence with the FDA regarding any non-agreed amendments must be included in
648 the appropriate section of the application.⁵⁰

649

650

IX. REACHING AGREEMENT ON THE NON-AGREED INITIAL PEDIATRIC STUDY PLAN

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652

653

654 If a sponsor receives a letter of non-agreement, the FDA will make every effort to work with the
655 sponsor and resolve the area(s) of disagreement as quickly as possible; however, there is no
656 statutory timeline attached to this process. If the sponsor disagrees with the FDA's
657 recommendations, it can request a meeting with the FDA to discuss any disagreement. After the
658 sponsor and the FDA have resolved any disagreement, the sponsor should submit the proposed
659 agreed iPSP or proposed agreed amended iPSP for FDA review.

660

⁵⁰ See 21 CFR 314.101(d). Section 505B(a) of the FD&C Act requires that the necessary pediatric assessments must be submitted with the application; if the assessments will not be ready for submission with the NDA or BLA, the sponsor must include in its iPSP plans to request a deferral.

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APPENDIX 1: INITIAL PEDIATRIC STUDY PLAN TEMPLATE⁵¹

When submitting an iPSP, sponsors should mark the submission “**INITIAL PEDIATRIC STUDY PLAN**” in large font, bolded type at the beginning of the title page.

INITIAL PEDIATRIC STUDY PLAN TITLE PAGE

The proprietary name and the established name of the drug, if any, or, for biological products, the proper name including any appropriate descriptors

Dosage form:

NDA/BLA/IND #:

Drug class:

Approved indication (if applicable):

Proposed indication (if applicable):

Proposed General Plan: (i.e., full or partial waiver, deferral, and inclusion of a pediatric assessment in the future application)

Cross-reference to other INDs for which an iPSP is submitted for this drug development program

- 1. OVERVIEW OF THE DISEASE IN THE PEDIATRIC POPULATION (1-3 pages)**
- 2. OVERVIEW OF THE DRUG OR BIOLOGICAL PRODUCT (1-3 pages)**
- 3. OVERVIEW OF PLANNED EXTRAPOLATION OF EFFECTIVENESS TO SPECIFIC PEDIATRIC POPULATIONS (1-3 pages)**
- 4. PLANNED REQUEST FOR DRUG-SPECIFIC WAIVER(S) (1-3 pages)**
- 5. PLAN TO REQUEST DEFERRAL OF PEDIATRIC STUDIES (1-3 pages)**
- 6. TABULAR SUMMARY OF PLANNED NONCLINICAL AND CLINICAL STUDIES**

⁵¹ This template is also available at <http://www.fda.gov/downloads/Drugs/DevelopmentApprovalProcess/DevelopmentResources/UCM338453.pdf>.

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706
707 **7. AGE-APPROPRIATE FORMULATION DEVELOPMENT (1-3 pages)**
708
709
710 **8. NONCLINICAL STUDIES (1-3 pages)**
711
712
713 **9. CLINICAL DATA TO SUPPORT DESIGN AND/OR INITIATION OF STUDIES IN**
714 **PEDIATRIC PATIENTS (1-5 pages)**
715
716
717 **10. PLANNED PEDIATRIC CLINICAL STUDIES**
718
719 **10.1 Pediatric Pharmacokinetic Studies (1-10 pages)**
720 **10.2 Clinical Effectiveness and Safety Studies (1-10 pages)**
721
722
723 **11. TIMELINE OF THE PEDIATRIC DEVELOPMENT PLAN (1 page)**
724
725
726 **12. AGREEMENTS FOR PEDIATRIC STUDIES WITH OTHER REGULATORY**
727 **AUTHORITIES (1-3 pages)**
728
729 If there is a pending or agreed pediatric investigational plan with EMA, sponsors should
730 provide the corresponding application number (e.g., EMEA-000206-PIP01-08).
731