
Best Practices in Developing Proprietary Names for Human Nonprescription Drug Products

Guidance for Industry

DRAFT GUIDANCE

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For questions regarding this draft document, contact (CDER) Office of Surveillance and Epidemiology, Division of Medication Error Prevention and Analysis, Danielle Harris at 301-796-4590, or (CBER) Office of Communication, Outreach and Development, 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)**

**December 2020
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Best Practices in Developing Proprietary Names for Human Nonprescription Drug Products Guidance for Industry

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Nonprescription Drug Products**

This draft guidance, when finalized, will represent the current thinking of the Food and Drug Administration (FDA or Agency) on this topic. It does not establish any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations. To discuss an alternative approach, contact the FDA staff responsible for this guidance as listed on the title page.

I. INTRODUCTION

FDA is issuing this guidance to help sponsors of human nonprescription drug products develop **proprietary names**² for those products. This guidance describes best practices to help minimize proprietary name-related **medication errors** and otherwise avoid adoption of proprietary names that contribute to violations of the Federal Food, Drug, and Cosmetic Act (FD&C Act) and its implementing regulations. It also describes the framework FDA uses in evaluating proposed proprietary names that is available to sponsors to use for nonprescription drug products before a product bearing that proprietary name is marketed. This guidance does not address the designation of **established names** or **proper names**.

This guidance applies to all human nonprescription drug products, including those approved under a new drug application (NDA), abbreviated new drug application (ANDA)³, or biologics license application (BLA)⁴, and those that can be marketed without approved applications in accordance with requirements for nonprescription drugs under section 505G of the FD&C Act (21 U.S.C. 355h) (often referred to as over-the-counter (OTC) monograph drugs).⁵ In this

¹ This guidance was prepared by the Office of Surveillance and Epidemiology, Division of Medication Error Prevention and Analysis in the Center for Drug Evaluation and Research (CDER), and the Advertising and Promotional Labeling Branch in the Center for Biologics Evaluation and Research (CBER) at the Food and Drug Administration.

² Terms that appear in bold type upon first use are described in the Glossary, as they are used in this guidance.

³ With regard to NDAs and ANDAs, see section 505(b) and (j) of the FD&C Act (21 U.S.C. 355(b) and (j)).

⁴ See section 351 of the Public Health Service Act (42 U.S.C. 262).

⁵ Under section 505G, to be legally marketed without a new drug application approved under section 505, a nonprescription drug product must meet requirements that include conformity with applicable conditions for nonprescription use for the drug or class of drugs (such as those described in section 505G(a)(1)-(3) or established by order under section 505G(b)), as well as conformity with the general requirements for nonprescription drugs, which include labeling requirements under the Act and regulations.

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29 guidance, all such products are jointly referred to as *products*, and persons responsible for
30 developing the products are referred to as *sponsors*.

31 A separate guidance is available describing best practices in developing proprietary names for
32 human prescription drug products.⁶

33 This guidance recommends best practices for sponsors considering proprietary names for
34 nonprescription drugs and is intended to provide sponsors clarity and transparency with respect
35 to the factors and framework FDA uses to evaluate proposed proprietary names for
36 nonprescription drugs that are subject to premarket review. Use of the best practice
37 recommendations and other assessment tools addressed in this guidance is not mandatory, and
38 their application does not dictate specific outcomes. Assessments of a proprietary name are
39 necessarily fact-specific and thus, where FDA makes a determination about the acceptance of a
40 proprietary name for a nonprescription drug as part of the new drug approval process, it does so
41 on a case-by-case basis, considering the totality of the information.

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

47 **II. BACKGROUND**

48 Selecting a proprietary name is a critical element in drug product design and development
49 because **end users** may rely, in part or in whole, on the proprietary name to identify which
50 product, among thousands of available products, is intended for or used by a particular person.
51 Nonprescription drug product proprietary names are used by consumers, patients, caregivers,
52 physicians and other health care professionals as primary product identifiers. Having a
53 proprietary name that facilitates accurate identification of a nonprescription drug product by
54 these end users is critical for its safe and effective use. For example, if end users cannot easily
55 identify a nonprescription product or distinguish a proprietary name from other drug names that
56 are similar phonetically (sound-alike names) or in their spelling or orthographic appearance
57 (look-alike names), or if the drug name is otherwise confusing or misleading, the end user might
58 select or receive the wrong product or it might not be possible to correctly identify the product
59 used. Using best practices for selecting a proprietary name for a nonprescription drug helps
60 minimize these hazards, which in turn both promotes public health and helps to ensure that the
61 product conforms to legal requirements under the FD&C Act.

62 To inform their risk assessment of a proposed nonprescription product proprietary name,
63 sponsors should consider how their nonprescription product will be used by consumers, patients,
64 caregivers, physicians and other health care professionals.

⁶ See the FDA guidance for industry *Best Practices in Developing Proprietary Names for Human Prescription Drug Products* for design practices to help minimize errors with prescription proprietary names. We update guidances periodically. To make sure you have the most recent version of a guidance, check the FDA Drugs guidance web page, available at: <https://www.fda.gov/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/default.htm>.

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65 Commonly, nonprescription products are selected, purchased, and used by consumers without
66 the involvement of a health care professional. In cases where nonprescription products are
67 recommended or prescribed by health care professionals, this is commonly done using the
68 proprietary name.^{7,8} Nonprescription products are also used in a variety of health care settings,
69 including hospitals, emergency departments, and long term-care facilities, and their proprietary
70 names are used during prescribing, ordering, transcribing, dispensing, administration, or
71 medication reconciliation processes. Some nonprescription medication-use processes, for
72 example, transcribing and medication reconciliation, involve the use of a nonprescription product
73 proprietary name without referring to the **principal display panel (PDP)** or **drug facts labeling**
74 **(DFL)**. Our post-marketing surveillance of medication error reports has found that
75 nonprescription product proprietary names have been confused with prescription product
76 proprietary names at various points within the medication-use process.^{9,10,11,12,13,14}

77 Because proprietary names for nonprescription products are used by health care professionals
78 throughout the medication-use process in a variety of health care settings, we recommend that
79 proposed proprietary names for nonprescription products be developed and evaluated using
80 principles that are like those used for prescription product proprietary names to help ensure that
81 the proposed proprietary name is not subject to confusion by health care professionals.
82 Furthermore, because proprietary names for nonprescription products are also used by consumers
83 without the involvement of a health care professional, FDA recommends additional best
84 practices (described in more detail below) for the development and evaluation of proposed
85 nonprescription product proprietary names to help ensure that nonprescription product
86 proprietary names are also not subject to confusion by consumers, and do not otherwise
87 contribute to violations of applicable legal requirements.

88 Proprietary names are used in a product's **label** and **labeling**, including promotional labeling. A
89 drug's labeling, in turn, is often a key element in FDA oversight. For example, under section
90 502(a) of the FD&C Act (21 U.S.C. 352(a)), a drug is misbranded if its labeling is false or
91 misleading in any particular.¹⁵ Section 201(n) of the FD&C Act (21 U.S.C. 321(n)) sets forth

⁷ Tu, CM. Use of Proprietary Names by Prescribers when Prescribing Over-the-Counter (OTC) Drug Products. Therapeutic Innovation & Regulatory Science, published online April 22, 2018, available at <http://journals.sagepub.com/doi/pdf/10.1177/2168479018762376>

⁸ Some consumers seek a prescription for their nonprescription product to qualify the purchase for reimbursement as a medical expense under flexible spending arrangements, health reimbursement arrangements, or health savings accounts.

⁹ Institute for Safe Medication Practices, 2013, Safety briefs: ZERIT (stavudine) – ZYRTEC (cetirizine) mix-up, ISMP Med Saf Alert Community/Ambulatory Care, 12(9):2.

¹⁰ Institute for Safe Medication Practices, 2005, Safety briefs: Mucinex-Mucomyst: Too close for comfort, ISMP Med Saf Alert Community/Ambulatory Care, 4(1):1-2.

¹¹ Institute for Safe Medication Practices, 2002, Safety briefs: Mirapex and Miralax confusion, ISMP Med Saf Alert Acute Care, 7(20):1.

¹² Institute for Safe Medication Practices, 1996, Safety briefs: More on confirmation bias. ISMP Med Saf Alert Acute Care, 1(23):1-2.

¹³ Institute for Safe Medication Practices, 2014, Safety briefs: Florinef vs. Floranex, ISMP Med Saf Alert Acute Care, 19(2):2-3.

¹⁴ Institute for Safe Medication Practices, 2008, Safety briefs: Benazepril confused with Benadryl, ISMP Med Saf Alert Community/Ambulatory Care, 7(12):2.

¹⁵ See also 42 U.S.C. 262(j) with respect to a biological product subject to regulation under section 351 of the Public Health Service Act.

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92 certain considerations that shall be considered when determining whether labeling is misleading.
93 FDA regulations also address some of the ways in which the name of a drug may render its
94 labeling misleading.¹⁶ In addition, labeling is relevant to determining whether a drug is a new
95 drug under section 201(p) of the FD&C Act that requires premarket approval (see sections
96 505(a) and 301(d) of the FD&C Act (21 U.S.C. 355(a) and 331(d)).

97 For nonprescription products that will be marketed under an NDA, ANDA, or BLA, FDA
98 reviews proposed labeling, including any proposed proprietary name included in that labeling, on
99 a case-by-case basis as part of the application review process. Although the Prescription Drug
100 User Fee Act (PDUFA) and Biosimilar User Fee Act (BsUFA) performance goals provide for
101 FDA to make a tentative determination of acceptance/non-acceptance of a proposed proprietary
102 name early in the review process (in instances where the proprietary name review request is
103 submitted as a complete submission), final acceptance of a proposed proprietary name occurs as
104 part of the approval of the drug product.¹⁷ To reach that conclusion, in addition to considering
105 the safety and effectiveness data submitted to support approval, FDA considers the information
106 and analyses about the proposed proprietary name described in this guidance, along with any
107 additional proprietary name-related information submitted by the sponsor. In these cases, FDA's
108 evaluation process is very similar to that which it uses to review proposed proprietary names for
109 prescription drug products.

110 However, many nonprescription products and their product-specific labeling, including any
111 proprietary name, are not reviewed and approved by FDA through product-specific applications
112 before marketing, but instead can be legally marketed without approved applications if they
113 conform to applicable requirements under section 505G of the FD&C Act (21 U.S.C. 355h)..
114 Regardless of which regulatory framework governs market entry of a particular nonprescription
115 product, we recommend that sponsors follow the best practices described in this guidance. To
116 protect the public health, FDA supports proactive efforts to identify and avoid potential problems
117 before the product is marketed. Also, sponsors may choose to seek FDA's views on a proposed
118 proprietary name for an individual nonprescription drug product that they propose to market
119 under FD&C Act section 505G, particularly where they have uncertainty about the risks
120 presented by a proposed name.

121 Ultimately, regardless of whether a proprietary name has been evaluated by FDA before its use
122 in marketing the drug product, sponsors have an ongoing obligation to ensure that each marketed
123 product satisfies applicable requirements, such as ensuring that its labeling is not false or
124 misleading in any particular. (See section 502(a) of the FD& C Act). If a marketed product's

¹⁶ See, e.g., (21 CFR 201.6(b)) (labeling for a drug containing two or more ingredients may be misleading if the name of the drug designated in that labeling includes or suggests the name of one or more but not all of the ingredients); (21 CFR 201.10(c)(3)) (labeling of a drug may be misleading if it employs a fanciful proprietary name for a drug or ingredient that implies some unique effectiveness or composition when the drug or ingredients is in fact a common substance, the limitations of which are readily recognized when it is listed by its established name); (21 CFR 201.10(c)(5)) (labeling of drug may be misleading if the proprietary name may be confused with the proprietary name or established name of a different drug or ingredient because of similarity in spelling or pronunciation).

¹⁷ See, e.g., PDUFA Reauthorization Performance Goals and Procedures Fiscal Years 2018 through 2022, Items I.D.1.d and I.D.2.e. and BsUFA performance goals, see FDA's website at <https://www.fda.gov/industry/fda-user-fee-programs/biosimilar-user-fee-amendments> .

See also the FDA guidance for industry Contents of a Complete Submission for the Evaluation of Proprietary Names (April 2016). <https://www.fda.gov/media/72144/download>

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125 proprietary name causes or contributes to medication errors, the sponsor of that product should
126 work expeditiously with FDA to resolve the situation. If the product does not comply with
127 applicable requirements, and the sponsor is unwilling to address or resolve an issue voluntarily,
128 the sponsor and/or the product may be subject to enforcement or regulatory actions.

129 This guidance is organized as follows:

- 130 • Section III provides recommendations for developing and evaluating **novel proprietary**
131 **names** for nonprescription drug products.
- 132 • Section IV describes FDA’s current thinking on the use of a proprietary name that is
133 already associated with a marketed product(s) to introduce a new product.
- 134 • Section V provides recommendations for proprietary names for products that change
135 from prescription to nonprescription drug status.

136 For each category, we believe that no single test or standard is adequate to determine whether a
137 proposed proprietary name may contribute to errors or otherwise contribute to any violation of
138 the FD&C Act. Rather, the current approach to proposed proprietary name evaluation uses a
139 combination of different and complementary tests.

140 **III. RECOMMENDATIONS FOR DEVELOPING AND EVALUATING NOVEL** 141 **NONPRESCRIPTION DRUG PRODUCT PROPRIETARY NAMES**

142 Sometimes, a sponsor proposes a novel proprietary name for its nonprescription product, for
143 example, to introduce a new **active ingredient** or **active moiety**, a new formulation, a new
144 indication, or for the purposes of re-branding a product undergoing a prescription-to-
145 nonprescription switch (see section V).

146 We recommend that sponsors screen novel nonprescription proposed proprietary name
147 candidates for the attributes described in section III of the guidance for industry *Best Practices in*
148 *Developing Proprietary Names for Human Prescription Drug Products* [December 2020], which
149 identifies attributes of proposed proprietary names that FDA typically finds concerning. We
150 recommend that sponsors screen proposed proprietary name candidates for these attributes as a
151 first step before proceeding with a full assessment of whether a name is likely to contribute to
152 medication errors or otherwise contribute to violations of the FD&C Act. We recommend that
153 sponsors avoid proposed nonprescription drug product proprietary names that raise concern
154 during preliminary screening.

155 In addition to the recommendations for preliminary screening, FDA also recommends that
156 sponsors consider other important attributes described below during development of a proposed
157 proprietary name.

158 **A. Additional Best Practices for Evaluation of Proposed Names**

159 The following best practices are recommended to reduce the likelihood of selecting a
160 nonprescription drug product proprietary name that contributes to medication errors or other
161 violations of FDA-administered legal requirements, either at the time of initial product launch or
162 in the event of future product range expansions.

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163 *1. Names That Include Reference to Product-Specific Attributes*

164 For flexibility in future product development and naming, FDA recommends that sponsors avoid
165 incorporating product-specific attributes, such as dosage form (e.g. “*Nametabs*”) or route of
166 administration (e.g. “*Nameoral*”), as part of the proposed **root proprietary name**. It is not
167 uncommon for product-specific attributes to change during a drug’s life cycle with subsequent
168 introductions of new dosing intervals, formulations, dosage forms, indications, and patient
169 populations. If considering a proprietary name that includes or refers to product-specific
170 attributes, sponsors should be mindful that future changes, such as changes in dosage form or
171 route of administration, could render the root proprietary name inaccurate and thus unusable for
172 future formulations.

173 If references to product-specific attributes are included in the root proprietary name, FDA
174 recommends that the name be evaluated to ensure that the product-specific attribute is consistent
175 with the terminology used in the product’s labeling and does not pose risks for medication error.

176 *2. Medical Abbreviations*

177 Sponsors are generally discouraged from incorporating symbols, dose designations, and medical
178 abbreviations commonly used for prescription communication in their proposed proprietary
179 name because their inclusion could inadvertently introduce a source of error. Although we
180 acknowledge that consumers may not be familiar with these elements, health care providers
181 interact with nonprescription drug product proprietary names in a variety of health care settings
182 (see section II) and thus, inclusion of these elements in a nonprescription proprietary name can
183 contribute to confusion among these end users.

184 We recommend consulting The Joint Commission’s “Do Not Use” list or the Institute for Safe
185 Medication Practices (ISMP) List of Error-Prone Abbreviations, Symbols, and Dose
186 Designations when considering the risk that a proposed proprietary name incorporating an
187 abbreviation, symbol, or dose designation will be subject to misinterpretation.^{18,19}

188 When evaluating a proposed proprietary name that contains an element that is also an
189 abbreviation, symbol, or dose designation, FDA recommends considering other factors such as
190 placement and presentation that may influence interpretation of the element to make sure the way
191 it is presented in the name is not error-prone. As an example, “po” has been used historically as
192 an abbreviation for oral route of administration in a medication order, typically appearing after
193 the drug name. Therefore, while the inclusion of letters “po” in the beginning or within the root
194 proprietary name (e.g., Poname or Napome) is unlikely to be misconstrued as a medical
195 abbreviation, and thus would not be expected to pose a risk for medication errors, if “po” is used
196 in the ending of the root proprietary name or as a **modifier** (e.g., Namepo or Name PO), this
197 would increase the likelihood of “po” being misconstrued as an abbreviation for the oral route of
198 administration and thus create confusion if this is not the intended meaning.

¹⁸ The Joint Commission’s Official “Do Not Use” List of Abbreviations, 2004, available at:
http://www.jointcommission.org/assets/1/18/Official_Do_Not_Use_List_6_111.PDF.

¹⁹ Institute for Safe Medication Practices, 2010, List of Error-Prone Abbreviations, Symbols, and Dose
Designations, Horsham (PA), available at: <http://www.ismp.org/tools/errorproneabbreviations.pdf>.

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199 3. *Proprietary Names of Drug Products Marketed Outside of the United States*

200 Medication errors resulting in dispensing and administering the wrong drug can occur when a
201 proprietary name for a product marketed in the United States is identical, or nearly identical in
202 spelling and pronunciation, to the proprietary name of a foreign product containing an entirely
203 different active ingredient marketed only in a foreign country.²⁰ For this reason, as a best
204 practice, FDA recommends against proposing a proprietary name for a nonprescription product
205 that is identical or nearly identical to the proprietary name of a marketed foreign product that
206 contains an entirely different active ingredient, even if the proposed nonprescription product will
207 be marketed only in the United States (and the foreign product is not marketed in the United
208 States).

209 4. *Incorporation of the Sponsor's Name*

210 FDA recommends that sponsors avoid proposed proprietary names that incorporate the sponsor's
211 name, or some part of the sponsor's name, across multiple products (e.g., "ABCName1,"
212 "ABCName2," "ABCName3"). This practice results in creating multiple similar proprietary
213 names, increasing the risk of confusion among the products.

214 5. *Modifiers as Components of a Nonprescription Proprietary Name*

215 Some proprietary names are constructed of a root proprietary name modified by added words or
216 components, which are referred to as modifiers. The modifier portion of a proprietary name
217 generally consists of one or more letters, symbols, numbers, and/or words, and appears at the
218 beginning or end of the root proprietary name, typically set off by a space or hyphen. Sponsors
219 frequently propose a shared root proprietary name with various modifiers to distinguish among
220 multiple products that contain at least one shared active ingredient or active moiety (see section
221 IV).

222 Modifiers are sometimes used to convey distinguishing characteristics of the proposed
223 nonprescription product: e.g., the symptom(s) it is intended to treat ("Name Allergy"), or the
224 intended population ("Children's Drugname"), or frequency of administration ("Drugname
225 12Hour"), or formulation ("Extra Strength Drugname"). FDA recommends that the proposed
226 modifier be evaluated to ensure that it is consistent with the characteristics of the proposed
227 product and that it is not otherwise prone to medication error. FDA also recommends applying
228 considerations discussed in section IV.C of guidance for industry *Best Practices in Developing*
229 *Proprietary Names for Human Prescription Drug Products*.

230 To reduce the risk of medication errors associated with the use of modifiers in proprietary names,
231 FDA encourages sponsors who choose to use modifiers to select, whenever possible, an existing
232 modifier with an established meaning that has not been a source of confusion. See Appendix A
233 for examples of modifiers which, when intended to express the accompanying meaning, have not
234 been a source of confusion. When novel modifiers are used, sponsors are encouraged to test
235 consumer and health care professional comprehension of the modifier to determine if the
236 modifier is prone to misinterpretation by the end users. Such testing could include name
237 simulation studies or other means.

²⁰ Institute for Safe Medication Practices, 2005, Safety briefs: Same name, different drug, ISMP Med Saf Alert Acute Care, 10(1):2.

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238 **B. Recommended Methods for Evaluating Risks for Medication Error Posed by** 239 **Similarity of a Proposed Proprietary Name to Other Names**

240 Where FDA has the opportunity to review a nonprescription product's proposed proprietary
241 name as part of a marketing application, a primary focus of FDA's review of the proposed
242 proprietary name is avoiding end user error. When evaluating a proposed proprietary name,
243 FDA considers many potential sources of error, including phonetic, spelling, and orthographic
244 similarities, as well as other sources of error identified elsewhere in this guidance.

245 Specific methods that FDA uses to evaluate proposed proprietary names, as well as methods that
246 FDA recommends sponsors use for evaluation of proposed proprietary names, are described
247 below. The descriptions include methods for identifying existing proprietary names or
248 established names that could be confused with the sponsor's proposed name, as well as methods
249 for assessing the likelihood and potential effects of name-related medication errors. When a
250 proprietary name is submitted as part of an application, if a sponsor includes detailed study
251 report(s) providing data from its own safety assessment(s) and shows that these data were
252 generated using a methodology that is generally consistent with that described in this guidance,
253 FDA intends to use these data to help evaluate the risk that the proposed proprietary name would
254 contribute to medication errors. Sponsors are encouraged to conduct each of the types of
255 assessments described below, but FDA considers what is submitted on its individual merits,
256 regardless of whether it includes every type of testing described below.²¹

257 Furthermore, because nonprescription drug products are often marketed alongside cosmetics and
258 other self-care products, we recommend that sponsors that conduct such assessments also
259 consider the risk that the proposed nonprescription product proprietary name will be confused
260 with marketed cosmetics or other self-care products.

261 *1. Name Simulation Studies*

262 Name simulation studies conducted by FDA test how health care professionals employed by
263 FDA respond to the proposed names.²² The studies we carry out are limited in scope because
264 they involve only FDA staff. Although the sample size in FDA's simulation studies is small,
265 these studies can provide important qualitative data that can be used to identify the potential
266 vulnerability of a proposed name to be misinterpreted. The likelihood of observing an error in a
267 small study is low, so that when an error is observed in a small study, this suggests that there will
268 be errors in actual use. However, small studies may not be sufficiently sensitive to reliably
269 identify all risks associated with a proposed proprietary name; the absence of observed errors in
270 small studies is not conclusive evidence that a proposed name will not be confused with another

²¹ Because sponsors do not have access to non-public information on pending proposed proprietary drug names, when considering a proprietary name in the context of a premarket application for a new drug, FDA generally intends to use the methods described in this guidance to generate data to supplement any safety assessments provided by sponsors and evaluate the proposed proprietary name for its potential to be confused with non-public pending proposed proprietary names that have been submitted to FDA.

²² See the FDA guidance for industry *Best Practices in Developing Proprietary Names for Human Prescription Drug Products* for design practices to help minimize errors with prescription proprietary names. We update guidances periodically. To make sure you have the most recent version of a guidance, check the FDA Drugs guidance web page, available at: <https://www.fda.gov/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/default.htm>.

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271 drug product’s proprietary name. For these reasons, FDA believes it would be useful for
272 sponsors to conduct more comprehensive simulation studies.

273 Generally, name simulation studies test how subjects respond to a proposed proprietary name by
274 asking subjects to use the name in conditions that simulate the real world. The more closely and
275 fully the simulation approximates real-world use conditions, the more generalizable the results of
276 the simulation testing. Name simulation tasks should reflect the full range and variety of tasks
277 involved in the use of nonprescription drug products. Nonprescription products are often
278 selected, purchased, and used by consumers without the oversight of a health care professional.
279 Additionally, as noted in section II above, nonprescription products may be prescribed, ordered,
280 transcribed, dispensed, or administered by health care professionals using a proprietary name in a
281 variety of health care settings.²³ Therefore, it is important to evaluate whether all end users,
282 including consumers and health care professionals, can interpret both written and oral
283 communications of the proposed proprietary name. Thus, sponsors should design name
284 simulation studies for nonprescription product proprietary names to test how consumers and
285 health care professionals respond to the proposed name. FDA recommends that sponsors that
286 conduct such simulation studies consider the study design principles provided in Appendix C of
287 guidance for industry *Best Practices in Developing Proprietary Names for Human Prescription*
288 *Drug Products*.

289 2. *Computational Method To Identify Names With Potential Orthographic, Spelling, and*
290 *Phonetic Similarities*

291 FDA evaluates the orthographic and phonetic similarity of a proposed proprietary name to other
292 names by using the Phonetic Orthographic Computer Analysis (POCA)²⁴ software. See section
293 VI.C and VI.D of guidance for industry: *Best Practices in Developing Proprietary Names for*
294 *Human Prescription Drug Products* for a description of the methods FDA uses, and recommends
295 sponsors to use, to evaluate proposed names using the POCA software. If a sponsor includes
296 data from its own POCA evaluation as part of a proposed proprietary name submission, FDA
297 will use it to help evaluate the proposed proprietary name, provided that the methodology
298 employed to generate the data is generally consistent with the factors outlined in the
299 aforementioned Guidance.

300 **C. Further Best Practices for Review, Including for Misbranding and Other Legal** 301 **Concerns**

302 Although this guidance focuses primarily on aspects of proprietary names that can contribute to
303 medication error, it is a best practice to avoid using a proprietary name that could contribute to any
304 violation of the FD&C Act.

305 For example, among other things, the FD&C Act provides that a drug is misbranded if its
306 labeling is false or misleading in any particular (21 U.S.C. 352(a)). A proprietary name, which
307 appears in labeling, could result in such misbranding if it is false or misleading, such as by
308 making misrepresentations with respect to safety or efficacy. For instance, a fanciful proprietary
309 name may misbrand a product by suggesting that it has some unique effectiveness or

²³ Tu, CM, Use of Proprietary Names by Prescribers When Prescribing Over-the-Counter (OTC) Drug Products, *Therapeutic Innovation & Regulatory Science*, published online April 22, 2018, Available at: <http://journals.sagepub.com/doi/pdf/10.1177/2168479018762376>

²⁴ On February 17, 2009 (74 FR 7450), FDA announced the availability of the source code and supporting technical documentation for POCA software program royalty-free to the public.

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310 composition when it is actually a common substance, the limitations of which are readily
311 recognized when the product is listed by its established name (see 21 CFR 201.10(c)(3)). As
312 another example, a drug is a new drug if it is not generally recognized as safe and effective
313 (GRASE) for use under the conditions prescribed, recommended, or suggested in its labeling (21
314 U.S.C. 321(p)), and it is prohibited to introduce a new drug into interstate commerce without an
315 approved application (21 U.S.C. 331(d) and 355(a)). If the proprietary name of a drug suggests
316 that it be used under conditions for which it is not GRASE and for which it does not have an
317 approved new drug application, distributing that drug with labeling bearing that proprietary name
318 would violate the FD&C Act.

319 **IV. RECOMMENDATIONS PERTAINING TO THE USE OF A PROPRIETARY** 320 **NAME ALREADY ASSOCIATED WITH MARKETED PRODUCT(S)**

321 **A. Brand Name Extension**

322 In this guidance, FDA uses the term **brand name extension** to refer to a naming strategy that
323 uses a proprietary name that is already associated with one or more marketed drug products, with
324 or without a modifier, for a product that *does not share any active ingredient(s) or active*
325 *moiety(ies)* with the marketed product(s). Two examples of what FDA considers as brand name
326 extension are:

- 327 1. The proprietary name, “Drugname”, is already associated with a marketed product
328 that contains a specific active ingredient or active moiety and the sponsor uses the
329 same proprietary name “Drugname”, with or without a modifier, to introduce a new
330 product that does not contain the same active ingredient or active moiety.
- 331 2. A sponsor uses a portion of the proprietary name already associated with a marketed
332 drug product (e.g., the use of a shared **prefix** letter string with a modified **suffix** letter
333 string, whereby the prefix letter string evokes the proprietary name already associated
334 with a marketed product), with or without a modifier, to introduce a new product that
335 does not contain the same active ingredient or active moiety.

336 Considering the many reports of confusion caused by brand name extension, FDA advises
337 against using brand name extension to introduce a new nonprescription drug product.
338 Consumers and health care professionals familiar with an existing nonprescription product, in
339 some cases, equate that nonprescription product’s proprietary name with the product’s active
340 ingredients (or active moieties) or uses.

341 The use of the same proprietary name, or a portion of the same proprietary name, for products
342 that do not share at least one active ingredient (or active moiety) with the original marketed
343 product has been reported to cause confusion among consumers or health care professionals who

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344 are familiar with the root proprietary name.^{25,26,27,28,29} The types of medication errors that have
345 resulted from brand name extension confusion include the use of the wrong product, the use of a
346 product for the wrong indication, the administration of an unnecessary or contraindicated active
347 ingredient, and the use of a product in the wrong patient population, which in some cases has led
348 to **serious adverse events** requiring hospitalization.^{30,31,32,33} In addition, familiarity with the
349 product that originated the root proprietary name increases the risk that a consumer would not
350 recognize that a nonprescription product sharing that proprietary name has a different use, dose,
351 or safety profile than that of the original marketed product, as **confirmation bias** related to the
352 proprietary name can make consumers less likely to focus on other aspects of the product label or
353 labeling that would differentiate the products.

354 B. Family Branding (Family Trade Names)

355 In this guidance, FDA uses the term *family branding* to refer to a naming strategy involving the
356 use of the same root proprietary name to identify multiple products that *share at least one active*
357 *ingredient (or active moiety) in common with one another*. In this approach, the new product
358 shares a root proprietary name with the original marketed product but adds a distinguishing
359 suffix or modifier to distinguish the new product from the original marketed product. This
360 naming strategy results in the use of **family trade names**. For example, the products marketed
361 under the names, Mucinex, Mucinex DM, and Mucinex D, use a family branding strategy to
362 market nonprescription drug products containing guaifenesin, utilizing the modifiers “DM” and
363 “D”, to convey the additions of dextromethorphan and the decongestant pseudoephedrine to the
364 formulation, respectively.

365 Family trade names create a risk of medication errors if their modifiers do not adequately
366 differentiate the products. FDA recommends that sponsors consider the questions listed below to
367 assess the risks of each proposed use of a family trade name in the proprietary name for a
368 nonprescription drug product. These are considerations FDA applies, on a case-by-case basis,
369 when it evaluates a proposed use of a family trade name for a nonprescription product.

²⁵ Institute for Safe Medication Practices, 2014, Safety briefs: Another example of brand-name extension, ISMP Med Saf Alert Community/Ambulatory Care, 13(7):2-3.

²⁶ Institute for Safe Medication Practices, 2013, Safety briefs: Simply Saline simply isn't, ISMP Med Saf Alert Community/Ambulatory Care, 12(7):2-3.

²⁷ Institute for Safe Medication Practices, 2013, Allegra: Who knew it was also diphenhydrAMINE?, ISMP Med Saf Alert Community/Ambulatory Care, 12(4):4.

²⁸ Institute for Safe Medication Practices, 2009, Safety briefs: New brand-name extensions, ISMP Med Saf Alert Community/Ambulatory Care, 8(11):2-3.

²⁹ Institute for Safe Medication Practices, 2016, Safety Briefs: OTC's with similar names but totally different ingredients, ISMP Med Saf Alert Community/Ambulatory Care, 15(11):2-3.

³⁰ Institute for Safe Medication Practices, 2011, Safety briefs: Triaminic brand name extension could be dangerous to kids, ISMP Med Saf Alert Acute Care, 16(6):1-2.

³¹ Institute for Safe Medication Practices, 2004, Safety Briefs: Cautions: Dulcolax brand name extensions, ISMP Med Saf Alert Acute Care, 9(7):1-2.

³² FDA Drug Safety Communication: “Product Confusion with Maalox Total Relief and Maalox Liquid Products.” Available at: <http://www.fda.gov/Drugs/DrugSafety/PostmarketDrugSafetyInformationforPatientsandProviders/ucm199476.htm> . Accessed 4/15/19.

³³ Institute for Safe Medication Practices, 2010, Maalox Total Relief isn't the same great Maalox, ISMP Med Saf Alert Acute Care, 15(4):1-4.

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370 Affirmative answers generally indicate lower risk associated with the family branding naming
371 strategy.

- 372 • Does the proposed product share at least one active ingredient or active moiety with
373 the first product marketed under the same root proprietary name?
- 374 • Are there no known issues of name confusion involving other marketed products
375 using the same family trade name (see section C below)?
- 376 • Does the proposed modifier(s) adequately differentiate the proposed product from
377 other members of the same family brand (see section III.A.5)?
- 378 • Do the results from name simulation studies, if conducted, support that the proposed
379 name is not vulnerable to confusion with similar names (see section III.B.1)?
- 380 • Are the products within the family brand well-differentiated by other aspects of
381 labeling (e.g., carton, container, DFL)? For example:
 - 382 ○ Are differences in active ingredients (or active moieties), uses, dosage, and safety
383 profile prominently displayed on the PDP of the carton or **container closure**
384 **system** to assist in differentiation?
 - 385 ○ Are enhanced fonts, boxing, color, or other means used to call attention to the
386 pertinent product differences among products within a family brand?
- 387 • Is the proposed proprietary name, including the proposed modifier(s), unlikely to
388 contribute to other legal concerns under the FD&C Act about the product (see section
389 III.C)?

390 FDA generally intends to consider any supporting data that are provided by the sponsor to
391 describe the risks, or lack thereof, related to these points when determining the acceptability of a
392 proposed use of a family trade name as part of the review of a premarket application.

393 **C. Obtaining Medication Error Data for Names That Are Already Associated With** 394 **Marketed Products**

395 Case reports of medication errors related to proprietary names that are already associated with
396 marketed products can help inform the analysis of a proposed proprietary name. FDA monitors
397 medication error reports to identify cases of name confusion with the goal of identifying relevant
398 information about the causes of problems and failures that lead to medication error, and the
399 Agency applies any relevant information to the evaluation of a proposed proprietary name. FDA
400 recommends that sponsors obtain medication error report information from their internal safety
401 databases, publicly available FDA Adverse Event Reporting System (FAERS) data,³⁴ published
402 literature, and resources available through patient safety organizations, such as ISMP.

403 **V. RECOMMENDATIONS FOR DRUG PRODUCTS SWITCHING FROM** 404 **PRESCRIPTION TO NONPRESCRIPTION USE**

405 In some cases, a drug sponsor will submit either a supplement to an approved application or a
406 new NDA, seeking to “switch” a drug product that has been previously approved and marketed

³⁴ Available at

<https://www.fda.gov/drugs/guidancecomplianceregulatoryinformation/surveillance/adversedrugs/effects>.

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407 for prescription use only, to permit marketing of a nonprescription product (see 21 CFR
408 310.200(b)). In such a case, the sponsor might or might not propose a proprietary name for the
409 nonprescription product that is the same as the original prescription product proprietary name.
410 FDA evaluates these proposals on a case-by-case basis, and generally considers the factors
411 outlined below.

A. Full Prescription-to-Nonprescription Switch

413 Sometimes an application for a full switch will be approved, so that all indications, dosage
414 forms, strengths, etc. previously approved under that application for prescription-only use will
415 now be available without a prescription, and no prescription product covered by that application
416 will remain in the market. In these cases, continued use of the original proprietary name for the
417 new nonprescription product is likely to be acceptable unless the switch to nonprescription status
418 introduces new safety or legal concerns resulting from the use of the name, consistent with the
419 discussion in this guidance.

420 Alternatively, the sponsor may elect to market the product under the original proprietary name
421 with a modifier or propose a novel proprietary name for the nonprescription product (see section
422 III).

B. Partial Prescription-to-Nonprescription Switch

424 In certain cases, some of a product's indications, dosage forms, or strengths previously available
425 only by prescription are switched to nonprescription availability though others remain available
426 by prescription only. When this occurs, use of a proprietary name for the nonprescription
427 product that is identical to that of the prescription product would make it difficult for end users to
428 distinguish between the two products and could contribute to medication errors. However, it
429 may be possible to mitigate the risk of medication error by marketing the nonprescription
430 product under a modified proprietary name. Alternatively, the sponsor may elect to propose a
431 novel proprietary name for the nonprescription product (see section III).

VI. CONCLUSION

433 In conclusion, FDA's recommendations in this guidance are intended to help sponsors avoid
434 choosing a proprietary name that is likely to contribute to medication errors or otherwise
435 contribute to violations of the FD&C Act. In evaluating a proposed proprietary name, FDA
436 considers the information and analyses about the proposed proprietary name described in this
437 guidance, along with any additional name-related information submitted by the sponsor.
438 Assessments of a proprietary name are necessarily fact-specific and thus FDA's determinations
439 are made on a case-by-case basis, considering the totality of the information.

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442 GLOSSARY

443 The following terms are described only to assist in understanding how they are used in this
444 guidance:

445 **Active ingredient:** An *active ingredient* is any component that is intended to furnish
446 pharmacological activity or other direct effect in the diagnosis, cure, mitigation, treatment, or
447 prevention of disease, or to affect the structure or any function of the body of man or other
448 animals. The term includes those components that may undergo chemical change in the
449 manufacture of the drug product and be present in the drug product in a modified form intended
450 to furnish the specified activity or effect. See also 21 CFR 314.3(b).

451 **Active moiety:** *Active moiety* means the molecule or ion, excluding those appended portions of
452 the molecule that cause the drug to be an ester, salt (including a salt with hydrogen or
453 coordination bonds), or other noncovalent derivative (such as a complex, chelate, or clathrate) of
454 the molecule, responsible for the physiological or pharmacological action of the drug substance.
455 See also 21 CFR 314.3(b).

456 **Brand name extension:** FDA uses the term *brand name extension* to refer to a naming practice
457 that uses a *proprietary name* that is already associated with one or more marketed drug products,
458 with or without a modifier, for a product that does not share any active ingredient(s) or active
459 moiety(ies) with the marketed product(s).

460 **Confirmation bias:** *Confirmation bias* is the tendency to search for, interpret, favor, and recall
461 information in a way that confirms one's preexisting beliefs or hypotheses.

462 **Container closure system:** A *container closure system* refers to the sum of **packaging**
463 components that together contain and protect the dosage form. This includes primary packaging
464 components and secondary packaging components, if the latter are intended to provide added
465 protection to the drug product. A packaging system is equivalent to a container closure system.

466 **Drug Facts Labeling (DFL):** The *drug facts labeling* refers to the title, headings, subheadings,
467 and information required under or otherwise described in § 201.66(c). See 21 CFR 201.66(c).

468 **End user:** The term *end user* includes, but is not limited to, the consumer, the patient, patient's
469 caregiver, the prescribing physician, nurse, pharmacist, pharmacy technician, and other
470 individuals who are involved in routine selection, purchase, procurement, stocking, storage,
471 prescribing, dispensing, and administration of nonprescription drug products (e.g., medication
472 technicians).

473 **Established name:** Section 502(e)(3) of the FD&C Act (21 U.S.C. 352(e)(3)) states that:

474 the term "established name," with respect to a drug or ingredient thereof, means (A) the
475 applicable official name designated pursuant to section 508, or (B) if there is no such
476 name and such drug, or such ingredient, is an article recognized in an **official**
477 **compendium**, then the official title thereof in such compendium, or (C) if neither clause
478 (A) or clause (B) of this subparagraph applies, then the common or usual name, if any of
479 such drug or such ingredient, except that where clause (B) of this subparagraph applies to
480 an article recognized in the United States Pharmacopeia and in the Homeopathic
481 Pharmacopoeia under different official titles, the official title used in the United States
482 Pharmacopeia shall apply unless it is labeled and offered for sale as a homeopathic drug,

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483 in which case the official title used in the Homeopathic Pharmacopoeia shall apply
484 [emphasis added].

485 **Family trade name:** A *family trade name* results from a naming practice involving the use of a
486 shared *proprietary name* to market multiple products with a shared active ingredient, using a
487 *suffix* or *modifier*, to distinguish the products from one another. This practice is also referred to
488 as *family branding*.

489 **Label:** As defined in section 201(k) of the FD&C Act (21 U.S.C. 321(k)), the term *label* means
490 “a display of written, printed, or graphic matter upon the immediate container of any article.” If
491 any word, statement, or other information is required by the FD&C Act to appear on the label, it
492 must appear on the outside container or wrapper, if there is one, or be “easily legible through the
493 outside container or wrapper.”

494 **Labeling:** As defined in section 201(m) of the FD&C Act, the term *labeling* means “all labels
495 and other written, printed, or graphic matter (1) upon any article or any of its containers or
496 wrappers, or (2) accompanying such article.”

497 **Medication error:** A *medication error* is any preventable event that may cause or lead to
498 inappropriate medication use or medication-related patient harm while the medication is in the
499 control of the health care professional, patient, or consumer. Such events may be related to
500 professional practice, health care products, procedures, and systems, prescribing, order
501 communication, product labeling, packaging, and nomenclature, compounding, dispensing,
502 distribution, administration, education, monitoring, and use. (See also National Coordinating
503 Council for Medication Error Reporting and Prevention, available at
504 <https://www.nccmerp.org/about-medication-errors>, accessed on 07/20/2020.)

505 **Modifier:** A *modifier* is a portion of the proprietary name. Some proprietary drug names are
506 constructed of a root proprietary name and added word(s) or other components that are referred
507 to as the modifier portion of the proprietary drug name. The modifier portion of a proprietary
508 drug name might be a letter, number, word, device name, or combination of letters, numbers, and
509 words appearing at the beginning or end of a root proprietary name, typically set off by a space
510 or hyphen.

511 **Novel proprietary name:** A proprietary name that has not been previously used in the United
512 States for any marketed prescription or nonprescription human drug product.

513 **Official compendium:** The term *official compendium* is defined in section 201(j) of the FD&C
514 Act as “the official United States Pharmacopeia, official Homeopathic Pharmacopoeia of the
515 United States, official National Formulary, or any supplement to any of them.”

516 **Packaging:** A *package* or *market package* refers to the container closure system and labeling,
517 associated components (e.g., dosing cups, droppers, spoons), and external packaging (e.g.,
518 cartons or shrink wrap). A market package is the article provided to a pharmacist or retail
519 customer upon purchase and does not include packaging used solely for the purpose of shipping
520 such articles.

521 **Prefix:** A *prefix* is a group of letters that appears at the beginning of the proprietary name.

522 **Principal display panel (PDP):** The term *principal display panel*, as it applies to over-the-
523 counter drugs in package form, means the part of a *label* that is most likely to be displayed,

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524 presented, shown, or examined under customary conditions of display for retail sale. See 21 CFR
525 201.60.

526 **Proper name:** For biological products, the term *proper name* means the nonproprietary name
527 designated by FDA in the license for a biological product licensed under the PHS Act. See 21
528 CFR 600.3(k).

529 **Proprietary name:** The *proprietary name* of a drug product is its brand name.³⁵

530 **Root proprietary name:** Some proprietary names are constructed of multiple components.
531 When a proprietary name contains a modifier as one of the components, the non-modifier portion
532 of the proprietary name is referred to as the *root proprietary name*. The *root proprietary name*
533 may be shared by multiple products. An example of a *root proprietary name* for a
534 nonprescription drug product is Advil in Advil PM.

535 **Serious adverse event:** A *serious adverse event* is defined as an event that does or has the
536 potential to result in death, hospitalization, congenital abnormality, permanent disability, or
537 could be life-threatening. See 21 CFR 314.80 and Section 760(a)(3) of the FD&C Act, 21 U.S.C.
538 379aa(a)(3).

539 **Suffix:** A *suffix* is a group of letters that appears at the end of the proprietary name.

540

³⁵ Sometimes referred to as the product's "trade name"

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541 **Appendix A: Examples of Previously Used Nonprescription Drug**
542 **Modifiers and Their Commonly Understood Meanings**

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544

Modifiers	Commonly Understood Meaning
Allergy	For treatment of allergy symptoms
D	Contains a decongestant
PM	For nighttime use
DM	Contains dextromethorphan
For Men	For use only in men
For Women	For use only in women
12h	Dosed every 12 hours
24h	Dosed every 24 hours

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546