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# Geriatric Information in Human Prescription Drug and Biological Product Labeling Guidance for Industry

## *DRAFT GUIDANCE*

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For questions regarding this draft document, contact (CDER) Eric Brodsky at 301-796-0855, 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)**

**September 2020  
Labeling**

# Geriatric Information in Human Prescription Drug and Biological Product Labeling Guidance for Industry

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*Contains Nonbinding Recommendations*

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1                                   **Geriatric Information in Human Prescription**  
2                                   **Drug and Biological Product Labeling**  
3                                   **Guidance for Industry<sup>1</sup>**  
4  
5

6  
7 This draft guidance, when finalized, will represent the current thinking of the Food and Drug  
8 Administration (FDA or Agency) on this topic. It does not establish any rights for any person and is not  
9 binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the  
10 applicable statutes and regulations. To discuss an alternative approach, contact the FDA staff responsible  
11 for this guidance as listed on the title page.  
12

13  
14  
15 **I. INTRODUCTION**  
16

17 This guidance is intended to assist applicants of human prescription drug and biological  
18 products<sup>2</sup> in determining the appropriate placement and content of geriatric information in  
19 labeling as described in the regulations for the content and format of labeling for human  
20 prescription drug and biological products.<sup>3,4</sup>  
21

22 The goal of this guidance is to provide recommendations to help ensure that appropriate  
23 information on the use of prescription drugs in geriatric patients is consistently placed in the  
24 proper sections and subsections within labeling so that the information is clear and accessible to  
25 health care practitioners and includes content that guides the safe and effective use in geriatric  
26 patients.  
27

28 This guidance, which replaces the withdrawn guidance for industry *Content and Format for*  
29 *Geriatric Labeling* (October 2001), provides additional examples of geriatric use statements in  
30 labeling and examples of when the labeling regulations authorize the FDA to permit applicants to  
31 omit or revise specific information otherwise required in the *Geriatric Use* subsection.  
32

33 In general, FDA’s guidance documents do not establish legally enforceable responsibilities.  
34 Instead, guidances describe the Agency’s current thinking on a topic and should be viewed only  
35 as recommendations, unless specific regulatory or statutory requirements are cited. The use of

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<sup>1</sup> This guidance has been prepared by the Labeling Policy Team in the Center for Drug Evaluation and Research in cooperation with the Center for Biologics Evaluation and Research at the Food and Drug Administration.

<sup>2</sup> For the purposes of this guidance, references to *drugs* and *drug and biological products* include drugs approved under section 505 of the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 355) and biological products licensed under section 351 of the Public Health Service Act (42 U.S.C. 262) that are regulated as drugs.

<sup>3</sup> See 21 CFR 201.56(d) and 21 CFR 201.57.

<sup>4</sup> This guidance does not pertain to labeling for nonprescription drugs.

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36 the word *should* in Agency guidances means that something is suggested or recommended, but  
37 not required.

38  
39

40 **II. BACKGROUND**

41

42 **A. Geriatric Initiatives**

43

44 *1. Geriatric Clinical Data Initiatives*

45

46 In the 1980s, the FDA began several initiatives to increase the quantity and quality of  
47 information about the use of drugs in geriatric patients (defined as patients 65 years of age and  
48 older) so that health care practitioners would have enough information for the safe and effective  
49 use of drugs in geriatric patients. For example, the FDA encourages a thorough evaluation of the  
50 effectiveness and safety of drugs in geriatric patients and recommends examination of age-  
51 related differences in effectiveness, dose response, and safety.<sup>5</sup> In 1998, the FDA required new  
52 drug application (NDA) holders<sup>6</sup> and, subsequently, recommended that biologics license  
53 application (BLA) holders<sup>7</sup> present in their applications effectiveness and safety data based on  
54 age. In 2012, in an International Conference on Harmonisation (ICH) guidance for industry, the  
55 FDA reaffirmed the importance of obtaining geriatric data, across the entire full age range of the  
56 geriatric population because of the likelihood of comorbidities and the increasing number of  
57 geriatric patients in the United States.<sup>8</sup> The guidance also noted ways in which geriatric patients  
58 (especially patients 75 years of age and older) may respond differently to drug therapy than  
59 younger adult patients.<sup>9</sup>

60

61 In 2012, the Food and Drug Administration Safety and Innovation Act (FDASIA) directed the  
62 FDA to report on the inclusion of demographic subgroups (including age subgroups) in clinical

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<sup>5</sup> See the guidance for industry *Guideline for the Study of Drugs Likely to Be Used in the Elderly* (November 1989) and the International Conference on Harmonisation guidance for industry *E7 Studies in Support of Special Populations: Geriatrics* (August 1994). We update guidances periodically. To make sure you have the most recent version of a guidance, check the FDA guidance web page at <https://www.fda.gov/regulatory-information/search-fda-guidance-documents>.

<sup>6</sup> See the preamble of the demographic rule (21 CFR 314.50(d)(5); 63 FR 6854) published February 11, 1998. In addition to age, NDA holders are required to present effectiveness and safety data in other important demographic groups in their NDAs.

<sup>7</sup> See the guidance for industry and FDA staff *Collection of Race and Ethnicity Data in Clinical Trials* (October 2016). In addition to age, the FDA recommends that BLA holders present effectiveness and safety data in other important demographic groups in their BLAs.

<sup>8</sup> See the ICH guidance for industry *E7 Studies in Support of Special Populations: Geriatrics: Questions and Answers* (February 2012).

<sup>9</sup> *Ibid.*

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63 studies and the analysis of these demographic subgroups (including age subgroups) in NDAs and  
64 BLAs.<sup>10</sup>

65

### 66 2. *Geriatric Labeling Initiatives*

67

68 Until the late 1990s, the majority of drug labeling contained minimal or no geriatric use  
69 information to guide safe and effective use in the geriatric population. In 1997, the FDA issued a  
70 final rule creating a *Geriatric Use* subsection of labeling to promote the consistent inclusion of  
71 all relevant geriatric information in labeling.<sup>11</sup> This subsection is intended to provide  
72 information on possible differences in the safety, effectiveness, pharmacodynamics, and/or  
73 pharmacokinetics between geriatric and younger adult patients given differences in responses,  
74 drug elimination, comorbidities, organ function (e.g., renal function), consequences of adverse  
75 reactions, and concomitant therapy (e.g., higher risk of drug interactions because of  
76 polypharmacy).

77

78 In 2001, the FDA issued the now-withdrawn guidance for industry *Content and Format for*  
79 *Geriatric Labeling*, which provided recommendations for the *Geriatric Use* subsection in the  
80 PRECAUTIONS section. In 2006, the FDA issued the final rule “Requirements on Content and  
81 Format of Labeling for Human Prescription Drug and Biological Products” (commonly referred  
82 to as the physician labeling rule (PLR)), which relocated the *Geriatric Use* subsection from the  
83 PRECAUTIONS section in *old* (non-PLR) format labeling to the USE IN SPECIFIC  
84 POPULATIONS section for labeling required to be in PLR format.<sup>12</sup>

85

### 86 **B. Geriatric Population in Labeling**

87

88 In general, for prescription drug labeling, the adult population is defined as patients 17 years of  
89 age and older, and the geriatric population is defined as patients 65 years of age and older.<sup>13</sup>  
90 Therefore, information in labeling that is pertinent to the adult population is typically also  
91 pertinent to the geriatric population (e.g., indications approved *in adults* include geriatric  
92 patients).<sup>14</sup>

93

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<sup>10</sup> See section 907 of FDASIA.

<sup>11</sup> See the preamble of the final rule, “Specific Requirements on Content and Format of Labeling for Human Prescription Drugs; Addition of ‘Geriatric Use’ Subsection in the Labeling,” (21 CFR 201; 62 FR 45313) published August 27, 1997, section II.A.

<sup>12</sup> See the preamble of the final rule, “Requirements on Content and Format of Labeling for Human Prescription Drug and Biological Products,” (21 CFR parts 201, 314, and 601; 71 FR 3922) published January 24, 2006.

<sup>13</sup> 21 CFR 201.57(c)(9)(iv)(A) and 21 CFR 201.57(c)(9)(v)(A).

<sup>14</sup> See the draft guidance for industry *Indications and Usage Section of Labeling for Human Prescription Drug and Biological Products — Content and Format* (July 2018). When final, this guidance will represent the FDA’s current thinking on this topic.

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94 The information in the *Geriatric Use* subsection must pertain to the use of the drug in patients 65  
95 years of age and older, unless otherwise noted.<sup>15</sup> Patients 65 years of age and older are not a  
96 homogeneous group (e.g., differences in organ function, comorbidities, concomitant drugs, and  
97 drug distribution and elimination). Applicants should include information on additional geriatric  
98 age subgroups in the labeling if important differences exist in responses in these subgroups.<sup>16</sup>  
99 Such subgroups should be further defined in the labeling as appropriate (e.g., 65-74 years of age;  
100 75-84 years of age; and 85 years of age and older).<sup>17</sup> In some cases, geriatric age might be  
101 expressed as a continuous function of age.<sup>18</sup>

102

103

### **III. OVERVIEW OF GERIATRIC USE INFORMATION IN HUMAN PRESCRIPTION DRUG AND BIOLOGICAL PRODUCT LABELING**

106

107 In general, applicants must summarize certain geriatric use information in the *Geriatric Use*  
108 subsection<sup>19</sup> and, when appropriate, must cross-reference the appropriate section(s) or  
109 subsection(s) of labeling that provide more detailed geriatric use information.<sup>20</sup> Certain geriatric  
110 use information must be included based on the type of information being conveyed,<sup>21</sup> which can  
111 be characterized as follows:

112

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<sup>15</sup> 21 CFR 201.57(c)(9)(v)(A). See also the preamble of the final rule, “Specific Requirements on Content and Format of Labeling for Human Prescription Drugs; Addition of ‘Geriatric Use’ Subsection in the Labeling,” (21 CFR 201; 62 FR 45313, 45316) published August 27, 1997, stating that the Agency “does not consider 65 years of age to be an absolute” age cut-off to define geriatric patients in labeling. For some labeling, it may be more appropriate to choose a different age cut-off to define geriatric patients.

<sup>16</sup> See the preamble of the final rule, “Specific Requirements on Content and Format of Labeling for Human Prescription Drugs; Addition of ‘Geriatric Use’ Subsection in the Labeling,” (21 CFR 201; 62 FR 45313, 45316) published August 27, 1997.

<sup>17</sup> The FDA recommends that the age distribution in the clinical development program be representative of the target population, and that applications should assess the consistency of the treatment effect and safety profile in geriatric subpopulations (e.g., 65–74 years of age, 75–84 years of age, and 85 years of age and older) and younger adults. See the guidance for industry *E7 Studies in Support of Special Populations: Geriatrics: Questions and Answers*.

<sup>18</sup> See the preamble of the final rule, “Specific Requirements on Content and Format of Labeling for Human Prescription Drugs; Addition of ‘Geriatric Use’ Subsection in the Labeling,” (21 CFR 201; 62 FR 45313, 45316) published August 27, 1997.

<sup>19</sup> See 21 CFR 201.57(c)(9)(v). The FDA may permit omission of required statement(s) in the *Geriatric Use* subsection if the FDA determines that no statement described in 21 CFR 201.57(c)(9)(v)(A) to (E) is appropriate or relevant to the drug’s labeling; additionally, the FDA may permit an alternative appropriate and accurate statement(s) (21 CFR 201.57(c)(9)(v)(F)).

<sup>20</sup> 21 CFR 201.57(c)(9)(v)(B)(3) and 21 CFR 201.57(c)(9)(v)(D). Additional cross-references from the *Geriatric Use* subsection to other section(s)/subsection(s) are recommended when there is more detailed geriatric use information in those other section(s)/subsection(s). See the guidance for industry *Labeling for Human Prescription Drug and Biological Products — Implementing the PLR Content and Format Requirements* (February 2013).

<sup>21</sup> See 21 CFR 201.57(c)(9)(v).

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132
- Three scenarios (i.e., **scenarios 1.1, 1.2, and 1.3**) in which the drug is approved for use in adult patients generally, including geriatric patients or a subset of the geriatric population:
    - **Scenario 1.1:** When information is sufficient to detect differences in safety and/or effectiveness between geriatric and younger adult patients and there were no observed differences in safety and/or effectiveness between these groups<sup>22</sup>
    - **Scenario 1.2:** When information is sufficient to detect differences in safety and/or effectiveness between geriatric and younger adult patients and differences in safety and/or effectiveness between these groups were observed<sup>23</sup>
    - **Scenario 1.3:** When information is insufficient to detect differences in safety and/or effectiveness between geriatric and younger adult patients<sup>24</sup>
  - **Scenario 2** in which the drug is approved for a geriatric-specific indication<sup>25</sup> (i.e., for a specific indication, the drug is indicated for use only in geriatric patients (or a subset of the geriatric population) and not in adult patients less than 65 years old).

133 The following sections provide more detailed descriptions of scenarios 1.1, 1.2, 1.3, and 2 and  
134 geriatric information that is required or recommended for inclusion in relevant sections and  
135 subsections of labeling.

136  
137  
138 **IV. DRUG IS APPROVED FOR USE GENERALLY IN ADULT PATIENTS**  
139 **INCLUDING GERIATRIC PATIENTS OR A SUBSET OF THE GERIATRIC**  
140 **POPULATION (SCENARIOS 1.1, 1.2, AND 1.3)**

141  
142 **A. Including Information in the Geriatric Use Subsection of Labeling (Scenarios**  
143 **1.1, 1.2, and 1.3)**

144  
145 The *Geriatric Use* subsection must include certain information pertinent to the safe and effective  
146 use of the drug in geriatric patients for all indications approved for use in adult patients  
147 (including geriatric patients).<sup>26</sup>

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<sup>22</sup> 21 CFR 201.57(c)(9)(v)(B)(2).

<sup>23</sup> 21 CFR 201.57(c)(9)(v)(B)(3).

<sup>24</sup> 21 CFR 201.57(c)(9)(v)(B)(1).

<sup>25</sup> 21 CFR 201.57(c)(9)(v)(A).

<sup>26</sup> 21 CFR 201.57(c)(9)(v)(B).



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149 Information in this subsection is typically derived from results from controlled clinical studies  
150 submitted in the application or supplement(s) that are relevant to the use of the drug in geriatric  
151 patients. However, sometimes information in this subsection is obtained from “other reported  
152 clinical experience”<sup>27</sup> such as, but not limited to, well-documented studies obtained from a  
153 literature search, clinically relevant information from registries, other epidemiological or  
154 surveillance studies, case series studies, and adverse event reports.<sup>28</sup>  
155

156 Under scenario 1.1, the *Geriatric Use* subsection must include the percentage of patients 65  
157 years of age and older and the percentage of patients 75 years of age and older (or the total  
158 number of patients 65 years of age and older and the total number of patients 75 years of age and  
159 older) in the clinical studies of the drug.<sup>29</sup> Under this scenario, to provide more information to  
160 health care practitioners about geriatric exposure, the FDA recommends that this subsection  
161 present both the number and percentage of drug-exposed patients 65 years of age and older, and  
162 the number and percentage of drug-exposed patients 75 years of age and older in a defined group  
163 of clinical studies (typically the clinical studies that supported the approval of the drug in adult  
164 patients, including geriatric patients). Under scenario 1.1, alternative age cutoff point(s) within  
165 the geriatric population may be permitted to describe drug exposure, if the FDA determines that  
166 such age cutoff point(s) are accurate and appropriate.<sup>30</sup>  
167

168 Under scenarios 1.2 and 1.3, the FDA recommends including geriatric exposure information in  
169 the *Geriatric Use* subsection. Specifically, we recommend that this subsection provide both the  
170 number and percentage of drug-exposed geriatric patients in a defined group of clinical studies  
171 (typically the clinical studies that supported the approval of the drug in adult patients, including  
172 geriatric patients). Different age cutoff points within the geriatric population can be selected to  
173 describe drug exposure, depending on the database (see section II.B., Geriatric Population in  
174 Labeling, in this guidance).  
175

176 Under scenarios 1.1, 1.2, and 1.3, the *Geriatric Use* subsection can also include information on  
177 the total number of geriatric patients in the clinical studies (e.g., including drug-treated patients  
178 and control-treated patients). Under these scenarios, we recommend that this subsection cross-  
179 reference to other sections of labeling that contain additional details about the studies used to  
180 determine the geriatric exposure (e.g., the CLINICAL STUDIES section).  
181

182 In general, geriatric exposure information should be placed at the beginning of the *Geriatric Use*  
183 subsection. However, information on specific risks or safety concerns associated with the use of  
184 the drug in geriatric patients and/or recommendations on specific monitoring in geriatric patients  
185 may appear before the drug exposure information.  
186

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<sup>27</sup> 21 CFR 201.57(c)(9)(v)(B)(1), (2), and (3).

<sup>28</sup> See the preamble of the final rule, “Specific Requirements on Content and Format of Labeling for Human Prescription Drugs; Addition of ‘Geriatric Use’ Subsection in the Labeling,” (21 CFR 201; 62 FR 45313) published August 27, 1997.

<sup>29</sup> 21 CFR 201.57(c)(9)(v)(B)(2).

<sup>30</sup> 21 CFR 201.57(c)(9)(v)(F).

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187 The following examples represent options for summarizing geriatric exposure information under  
188 scenarios 1.1, 1.2, and/or 1.3; alternative language can be proposed.

189

- 190 • Example 1:

191

192 “There were n patients 65 years of age and older in the clinical studies for Disease A [*see*  
193 *Clinical Studies (14)*]. Of the total number of DRUG X-treated patients in these studies,  
194 n (y%) were 65 years of age and older, while n (z%) were 75 years of age and older.”

195

- 196 • Example 2:

197

198 “Of the total number of DRUG X-treated patients in clinical studies for Disease A, n  
199 (y%) were 65 to 74 years of age, and n (z%) were 75 years of age and older [*see Clinical*  
200 *Studies (14)*].”

201

- 202 • Example 3:

203

204 “There were n patients 65 years of age and older in the clinical studies for Disease A,  
205 Disease B, and Disease C [*see Clinical Studies (14.1, 14.2, 14.3)*]. Of the total number  
206 of DRUG X-treated patients in these studies, n (x%) were 65 to 74 years of age, n (y%)  
207 were 75 to 84 years of age, and n (z%) were 85 years of age and older.”

208

- 209 1. *When Information Is Sufficient to Detect Differences in Safety and/or*  
210 *Effectiveness Between Geriatric and Younger Adult Patients — Geriatric Use*  
211 *Subsection (Scenarios 1.1 and 1.2)*

212

213 Factors that can affect whether there is sufficient information to detect differences in safety or  
214 effectiveness between geriatric and younger adult patients include the numbers of geriatric  
215 patients treated with the drug and control compared with the numbers of younger adult patients  
216 treated with the drug and control, the age distribution within the geriatric and younger adult  
217 subpopulations, the specific safety or effectiveness outcomes of interest, the magnitudes of  
218 differences in effects, and the variability in the outcomes. We recommend applicants contact the  
219 Agency if they have questions about whether there is sufficient information to detect differences  
220 in safety or effectiveness between geriatric and younger adult patients.

221

222 In general, integrated analyses of geriatric data from multiple studies can help increase the  
223 precision of safety and effectiveness evaluations and provide a more clinically useful  
224 representation of a drug’s benefit-risk profile in geriatric patients. Determination of whether and  
225 how to include such integrated analyses in labeling should incorporate considerations about any  
226 differences in design or conduct between studies. The method for integration should  
227 appropriately account for the effect of differences in randomization ratios, patient populations,

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228 and other factors across studies and use statistically appropriate methods for integrating data  
229 from multiple studies to minimize bias.<sup>31</sup>

230  
231 a. No observed differences in safety and/or effectiveness in geriatric patients  
232 compared to younger adult patients (scenario 1.1)

233  
234 If clinical studies included enough geriatric patients to make it likely that differences in safety or  
235 effectiveness between geriatric and younger adult patients would have been detected, but no such  
236 differences (in safety or effectiveness) were observed, and other reported clinical experience has  
237 not identified such differences, the *Geriatric Use* subsection must contain the following  
238 statement after information about the percentage (or number) of geriatric patients (see section  
239 IV.A., Including Information in the Geriatric Use Subsection of Labeling (Scenarios 1.1, 1.2, and  
240 1.3), of this guidance):<sup>32</sup>

241  
242 “No overall differences in safety or effectiveness were observed between these subjects and  
243 younger subjects, and other reported clinical experience has not identified differences in  
244 responses between the elderly and younger patients, but greater sensitivity of some older  
245 individuals cannot be ruled out.”

246  
247 An alternative statement may be permitted, if the FDA determines that such statement is accurate  
248 and appropriate.<sup>33</sup> Permissible changes may include, but are not limited to, the following:

- 249
- 250 • Using the term *patients* instead of *subjects*
  - 251
  - 252 • Using the term *younger adult patients* instead of *younger subjects* if safety and  
253 effectiveness comparisons were made between geriatric and younger adult patients (not  
254 pediatric patients)
  - 255
  - 256 • Removing the phrase “other reported clinical experience has not identified differences in  
257 responses between the elderly and younger patients” if there were no other clinical  
258 experience in geriatric patients (beyond the clinical study data submitted to support drug  
259 approval) because, for example, the drug is a new molecular entity that has never been  
260 marketed in any country
  - 261
  - 262 • Removing the phrase “but greater sensitivity of some older individuals cannot be ruled  
263 out” if this statement is inaccurate and/or clearly inapplicable for the drug<sup>34</sup>
  - 264

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<sup>31</sup> See the draft guidance for industry *Meta-Analyses of Randomized Controlled Clinical Trials to Evaluate the Safety of Human Drugs or Biological Products* (November 2018). When final, this guidance will represent the FDA’s current thinking on this topic.

<sup>32</sup> 21 CFR 201.57(c)(9)(v)(B)(2).

<sup>33</sup> 21 CFR 201.57(c)(9)(v)(F).

<sup>34</sup> 21 CFR 201.56(a)(2) and 21 CFR 201.56(d)(4).

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265 Such changes would result in an alternative statement such as the following:

266  
267 “No overall differences in safety or effectiveness of DRUG X have been observed between  
268 patients 65 years of age and older and younger adult patients.”

269  
270 For most topical ophthalmic drugs there have been no observed differences in safety or  
271 effectiveness between geriatric and younger adult patients in clinical studies. The systemic  
272 absorption of topical ophthalmic drugs is usually minimal, and consequently, systemic effects are  
273 unlikely and have been observed infrequently. Thus, when clinical differences between geriatric  
274 and younger adult patients have not been demonstrated, applicants of topical ophthalmic drugs  
275 may also use the alternative statement above.

276  
277 b. Differences in safety and/or effectiveness in geriatric patients compared to  
278 younger adult patients (scenario 1.2)

279  
280 The *Geriatric Use* subsection must contain a summary of observed differences or specific  
281 monitoring or dosage requirements in certain situations.<sup>35</sup> These situations occur when clinical  
282 studies and/or other reported clinical experience indicate that the use of the drug in geriatric  
283 patients, compared to its use in younger adult patients, is associated with differences in safety or  
284 effectiveness or requires specific monitoring or different recommended dosage in geriatric  
285 patients. For example, if geriatric patients experienced unique adverse reactions, adverse  
286 reactions occurred at a greater frequency or severity in geriatric patients than in younger adult  
287 patients, or there was reduced effectiveness in geriatric patients, this information must appear in  
288 the *Geriatric Use* subsection.<sup>36</sup> As appropriate, this information must also be included in other  
289 sections (e.g., DOSAGE AND ADMINISTRATION, CONTRAINDICATIONS, WARNINGS  
290 AND PRECAUTIONS, ADVERSE REACTIONS, CLINICAL STUDIES).<sup>37</sup> For example:

291  
292 “The overall response rates in DRUG X-treated adult patients younger than 65 years of age,  
293 65 years of age to younger than 75 years of age, and 75 years of age and older were 25%,  
294 20%, and 15%, respectively. In comparison, the overall response rate for placebo-treated  
295 patients in each of these subgroups was 10%.

296  
297 In patients 65 years of age and older, consider premedication with drug 1, drug 2, and drug 3  
298 before DRUG X use [*see Dosage and Administration (2.x)*]. In DRUG X-treated patients,  
299 the incidence of  $\geq$  Grade 3 gastrointestinal (GI) adverse reactions (i.e., nausea and vomiting)  
300 was 10%, 35%, and 40% in adult patients younger than 65 years of age, 65 years of age to  
301 younger than 75 years of age, and 75 years of age and older, respectively [*see Adverse*  
302 *Reactions (6.1)*]. In comparison, in placebo-treated patients,  $\geq$  Grade 3 GI adverse reactions  
303 (i.e., nausea and vomiting) occurred in 1–3% of patients in the three subpopulations.”  
304

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<sup>35</sup> See 21 CFR 201.57(c)(9)(v)(B)(3).

<sup>36</sup> *Ibid.*

<sup>37</sup> *Ibid.*

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305           2.       *When Information Is Insufficient to Detect Differences in Safety and/or*  
306                    *Effectiveness Between Geriatric and Younger Adult Patients — Geriatric Use*  
307                    *Subsection (Scenario 1.3)*  
308

309 If clinical studies did not include sufficient numbers of geriatric patients to determine whether  
310 geriatric patients respond differently than younger adult patients, and other reported clinical  
311 experience has not identified such differences, the *Geriatric Use* subsection must include the  
312 following statement (with respect to format, the FDA recommends this statement appear after the  
313 geriatric exposure information; see section IV.A., Including Information in the Geriatric Use  
314 Subsection of Labeling (Scenarios 1.1, 1.2, and 1.3), in this guidance):<sup>38</sup>  
315

316            “Clinical studies of (name of drug) did not include sufficient numbers of subjects aged 65  
317            and over to determine whether they respond differently from younger subjects. Other  
318            reported clinical experience has not identified differences in responses between the elderly  
319            and younger patients. In general, dose selection for an elderly patient should be cautious,  
320            usually starting at the low end of the dosing range, reflecting the greater frequency of  
321            decreased hepatic, renal, or cardiac function and of concomitant disease or other drug  
322            therapy.”<sup>39</sup>  
323

324 An alternative statement may be permitted, if the FDA determines that such statement is accurate  
325 and appropriate.<sup>40</sup> In addition to the permissible changes noted for scenario 1.1, additional  
326 changes may include, but are not limited to, the following:  
327

- 328            • Defining the geriatric age group in the labeling
- 329
- 330            • Removing the following sentence if the drug has only one recommended starting dosage:  
331

332            “*In general, dose selection for an elderly patient should be cautious, usually starting at the*  
333            *low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal,*  
334            *or cardiac function and of concomitant disease or other drug therapy.*”  
335

336 Such changes would result in an alternative statement such as the following:  
337

338            “Clinical studies of DRUG X did not include sufficient numbers of patients 65 years of age  
339            and older to determine whether they respond differently from younger adult patients.”  
340

341 When a drug is approved for adult patients (including geriatric patients) but there is limited or no  
342 experience in geriatric patients because the disease/condition primarily occurs in pediatric  
343 patients and/or younger adult patients (the disease/condition rarely occurs in geriatric patients)

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<sup>38</sup> 21 CFR 201.57(c)(9)(v)(B)(1).

<sup>39</sup> *Ibid*

<sup>40</sup> 21 CFR 201.57(c)(9)(v)(F).

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344 (e.g., Duchenne muscular dystrophy), the *Geriatric Use* subsection may contain the following or  
345 another appropriate and accurate alternative statement:

346  
347 “Disease A is largely a disease of pediatric and young adult patients. Clinical studies of  
348 DRUG X did not include patients 65 years of age and older.”

349  
350 If clinical studies primarily included geriatric patients and did not include sufficient numbers of  
351 younger adult patients to determine whether geriatric patients respond differently than younger  
352 adult patients, and there has been no other reported clinical experience in geriatric patients, we  
353 recommend that the *Geriatric Use* subsection contain a statement clarifying why there is  
354 insufficient information to detect differences in safety or effectiveness between geriatric and  
355 younger adult patients. The following is an example of such a statement in this situation:

356  
357 “Clinical studies of DRUG X did not include sufficient numbers of younger adult patients to  
358 determine if patients 65 years of age and older respond differently than younger adult  
359 patients.”

360  
361 3. *Additional Required and Recommended Information in the Geriatric Use Subsection*  
362 *(Scenarios 1.1, 1.2, and 1.3)*

363  
364 a. Specific risks or safety concerns in geriatric patients — Geriatric Use  
365 subsection (scenarios 1.1, 1.2, and 1.3)

366  
367 The *Geriatric Use* subsection must also include specific risks or safety concerns (hazards)  
368 associated with the use of the drug in geriatric patients and any need for specific monitoring, as  
369 well as other information related to the safe and effective use of the drug in the geriatric  
370 population.<sup>41</sup> If appropriate, the hazard must be summarized in the BOXED WARNING,  
371 CONTRAINDICATIONS, and/or WARNINGS AND PRECAUTIONS sections.<sup>42</sup> The  
372 following is an example of how to include information in the *Geriatric Use* subsection and cross-  
373 reference other relevant sections for a drug associated with greater sedation and delirium in  
374 geriatric patients compared to younger adult patients:

375  
376 “Because DRUG X-treated geriatric patients (patients 65 years of age and older) had a higher  
377 rate of sedation and delirium than control-treated geriatric patients (the rates were similar  
378 between DRUG X-treated and control-treated younger adult patients), initiate DRUG X at a  
379 lower dosage in geriatric patients [*see Dosage and Administration (2.x) and Warnings and*  
380 *Precautions (5.x)*].”

381

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<sup>41</sup> 21 CFR 201.57(c)(9)(v)(A), (B)(3), and (D).

<sup>42</sup> 21 CFR 201.57(c)(9)(v)(D) and 21 CFR 201.57(c)(1), (5), and (6).

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- 382                   b.       Summarizing specific pharmacokinetic or pharmacodynamic studies in  
383                               geriatric patients — *Geriatric Use* subsection (scenarios 1.1, 1.2, and 1.3)  
384

385 If specific pharmacokinetic or pharmacodynamic studies have been carried out in geriatric  
386 patients, they must be summarized in the *Geriatric Use* subsection and described in detail in the  
387 CLINICAL PHARMACOLOGY section<sup>43</sup> (the *Geriatric Use* subsection should include a cross-  
388 reference to the CLINICAL PHARMACOLOGY section). For the fictitious drug DRUG X  
389 (drugozide injection), examples of such statements in the *Geriatric Use* subsection include the  
390 following:

- 391  
392       • Example 1:

393  
394                   “Geriatric patients had higher plasma drugozide  $C_{max}$  and AUC compared to younger  
395                   adult patients, and the plasma drugozide  $C_{max}$  and AUC observed in geriatric patients  
396                   increases the risk of DRUG X-related adverse reactions [*see Warnings and Precautions*  
397                   (5.x) and *Clinical Pharmacology* (12.3)]. Therefore, the recommended dosage of DRUG  
398                   X in geriatric patients is lower than in younger adult patients [*see Dosage and*  
399                   *Administration* (2.x)].”<sup>44</sup>

- 400  
401       • Example 2:

402  
403                   “No clinically meaningful differences in the pharmacokinetics of drugozide were  
404                   observed in geriatric patients compared to younger adult patients [*see Clinical*  
405                   *Pharmacology* (12.3)].”

- 406  
407                   c.       When a drug is known to be substantially excreted by the kidney —  
408                               *Geriatric Use* subsection (scenarios 1.1, 1.2, and 1.3)  
409

410 If the drug is known to be substantially excreted by the kidney, the *Geriatric Use* subsection  
411 must include the following statement:<sup>45</sup>

412  
413                   “This drug is known to be substantially excreted by the kidney, and the risk of adverse  
414                   reactions to this drug may be greater in patients with impaired renal function. Because  
415                   elderly patients are more likely to have decreased renal function, care should be taken in dose  
416                   selection, and it may be useful to monitor renal function.”

417  
418 An alternative statement may be permitted, if the FDA determines that such statement is accurate  
419 and appropriate.<sup>46</sup> Permissible changes may include, but are not limited to, the following:  
420

---

<sup>43</sup> 21 CFR 201.57(c)(9)(v)(C)(1).

<sup>44</sup> The term  $C_{max}$  refers to maximum plasma concentration. The term *AUC* refers to area under the curve.

<sup>45</sup> 21 CFR 201.57(c)(9)(v)(C)(2).

<sup>46</sup> 21 CFR 201.57(c)(9)(v)(F).

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- 421 • Removing the phrase “risk of adverse reactions to this drug may be greater in patients  
422 with impaired renal function” if the risk of adverse reactions is the same in patients with  
423 renal impairment and in patients with normal renal function (e.g., the drug has a high  
424 therapeutic index).  
425
- 426 • Using the term *geriatric patients* rather than *elderly patients*.  
427
- 428 • Removing the following phrase if the drug has only one recommended dosage or if the  
429 labeling contains specific dosage recommendations for patients with renal impairment:  
430  
431 “Because elderly patients are more likely to have decreased renal function, care should be  
432 taken in dose selection, and it may be useful to monitor renal function.”  
433
- 434 • Removing the following phrase if the labeling includes specific recommendations for  
435 monitoring renal function or if for the specific drug or disease/condition it would not be  
436 useful to monitor for renal function:  
437  
438 “It may be useful to monitor renal function.”  
439

440 Such changes would result in an alternative statement such as the following:  
441

442 “DRUG X is substantially excreted by the kidney, and the risk of adverse reactions to DRUG  
443 X may be greater in patients with renal impairment than in patients with normal renal  
444 function. Because geriatric patients are more likely to have renal impairment, monitor for  
445 Adverse Reactions Y and Z [*see Warnings and Precautions (5.x) and Use in Specific*  
446 *Populations (8.6)*].”  
447

448 Alternatively, this statement can be omitted if it is clearly inapplicable or misleading<sup>47</sup> in the  
449 *Geriatric Use* subsection (e.g., the drug is contraindicated or not recommended for use in  
450 patients with moderate or severe renal impairment).<sup>48</sup>  
451

452 If the drug is known to be substantially excreted by the kidney, the *Geriatric Use* subsection  
453 should, as appropriate, include a cross-reference to the *Renal Impairment* subsection (if any) in  
454 the USE IN SPECIFIC POPULATIONS section,<sup>49</sup> where clinically relevant details regarding use  
455 in patients with renal impairment would be included.  
456

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<sup>47</sup> See 21 CFR 201.56(a)(2) and 21 CFR 201.56(d)(4).

<sup>48</sup> In this example, information about the risks of use of the drug in patients with renal impairment would be described elsewhere in labeling (e.g., CONTRAINDICATIONS section, WARNINGS AND PRECAUTIONS section, *Renal Impairment* subsection in the USE IN SPECIFIC POPULATIONS section).

<sup>49</sup> See the draft guidance for industry *Pharmacokinetics in Patients with Impaired Renal Function — Study Design, Data Analysis, and Impact on Dosing and Labeling* (March 2010). When final, this guidance will represent the FDA’s current thinking on this topic.



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457           **B. Including Geriatric Use Information in Other Sections of Labeling**  
458           **(Scenarios 1.1, 1.2, and/or 1.3)**  
459

460 When the drug is approved for use generally in adult patients including geriatric patients (or a  
461 subset of the geriatric population), information about geriatric use may be required in other  
462 sections of the labeling. The following discusses both requirements and recommendations as to  
463 placement of geriatric use information in the relevant sections of labeling. The required and  
464 recommended information apply to scenarios 1.1, 1.2, and 1.3 unless otherwise noted.  
465

- 466       • **INDICATIONS AND USAGE:** If a drug is indicated for use in the entire adult  
467       population (including geriatric patients), then in general, the term *adults* should be  
468       incorporated into the indication.<sup>50</sup> For example:

469                   “DRUG X is indicated for the treatment of Indication A in adults.”  
470

- 471
- 472       • **DOSAGE AND ADMINISTRATION:** Typically, the recommended dosage in geriatric  
473       patients is the same as the recommended dosage in younger adult patients. However, the  
474       DOSAGE AND ADMINISTRATION section must include the recommended dosage in  
475       geriatric patients if the recommended dosage in geriatric patients differs from the  
476       recommended dosage in younger adult patients.<sup>51</sup>  
477
- 478       • **WARNINGS AND PRECAUTIONS:** Clinically significant adverse reactions or risks  
479       that are unique to geriatric patients must be included in the WARNINGS AND  
480       PRECAUTIONS section,<sup>52</sup> and clinically significant adverse reactions or risks that occur  
481       at a greater severity or frequency than in younger adult patients should generally also be  
482       included in this section (generally applies to scenario 1.2).<sup>53</sup>  
483
- 484       • **ADVERSE REACTIONS:** If there are differences in the frequency, severity, or type of  
485       adverse reactions in geriatric patients compared to younger adult patients or if there are  
486       adverse reactions that are unique to geriatric patients, details of these adverse reaction  
487       data should be included in the ADVERSE REACTIONS section (generally applies to  
488       scenario 1.2).<sup>54</sup> However, if there are no differences in frequency (e.g., no differences in  
489       relative or absolute risk), severity, or type of adverse reactions in geriatric patients

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<sup>50</sup> See the draft guidance for industry *Indications and Usage Section of Labeling for Human Prescription Drug and Biological Products — Content and Format* (July 2018). When final, this guidance will represent the FDA’s current thinking on this topic.

<sup>51</sup> See 21 CFR 201.57(c)(3)(C) and (H).

<sup>52</sup> See 21 CFR 201.57(c)(9)(v)(D) and 21 CFR 201.57(c)(6).

<sup>53</sup> See generally the guidance for industry *Warnings and Precautions, Contraindications, and Boxed Warning Sections of Labeling for Human Prescription Drug and Biological Products — Content and Format* (October 2011).

<sup>54</sup> See the guidance for industry *Adverse Reactions Section of Labeling for Human Prescription Drug and Biological Products — Content and Format* (January 2006).

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490 compared to younger adult patients, it is not necessary to separately present adverse  
491 reactions from geriatric patients in this section (generally applies to scenarios 1.1 and  
492 1.3).  
493

- 494 • **CLINICAL PHARMACOLOGY:** The CLINICAL PHARMACOLOGY section must  
495 include detailed descriptions of pharmacokinetic and/or pharmacodynamic study data if  
496 such studies were carried out in geriatric patients<sup>55</sup> and should include relevant  
497 pharmacogenomic study data, data obtained from population analyses, and dose response  
498 information.<sup>56</sup>  
499
- 500 • **CLINICAL STUDIES:** Clinical studies that provide substantial evidence of  
501 effectiveness for use of a drug in the geriatric population should be described in the  
502 CLINICAL STUDIES section (e.g., study design(s), population(s), endpoint(s), results  
503 and limitations of the study design or evidence).<sup>57</sup>  
504

## **V. DRUG IS APPROVED FOR A GERIATRIC-SPECIFIC INDICATION (SCENARIO 2)**

508  
509 When a drug is approved for use for a geriatric-specific indication, the labeling must provide a  
510 summary of information essential for safe and effective use in geriatric patients.<sup>58</sup> The following  
511 describes both requirements and recommendations regarding placement of geriatric use  
512 information in relevant sections of labeling when a drug is approved for a geriatric-specific  
513 indication:  
514

- 515 • **INDICATIONS AND USAGE:** All geriatric indications supported by adequate and  
516 well-controlled studies in geriatric patients must be included in the INDICATIONS AND  
517 USAGE section.<sup>59</sup> If the drug is indicated for use only in geriatric patients, in general,  
518 the FDA recommends using the phrases “patients XX years of age and older,” “adults  
519 XX years of age and older,” or similar phrases in the indication. For example:  
520

521 “DRUG X is indicated for the treatment of Indication A in patients 65 years of age  
522 and older.”  
523

---

<sup>55</sup> 21 CFR 201.57(c)(9)(v)(C)(1) and 21 CFR 201.57(c)(13).

<sup>56</sup> See the guidance for industry *Clinical Pharmacology Section of Labeling for Human Prescription Drug and Biological Products — Content and Format* (December 2016).

<sup>57</sup> See the guidance for industry *Clinical Studies Section of Labeling for Human Prescription Drug and Biological Products — Content and Format* (January 2006).

<sup>58</sup> 21 CFR 201.56(a)(1).

<sup>59</sup> 21 CFR 201.57(c)(9)(v)(A).

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- 524 • **DOSAGE AND ADMINISTRATION:** This section must include the recommended  
525 dosage in geriatric patients for all approved geriatric-specific indications.<sup>60</sup>  
526
- 527 • **ADVERSE REACTIONS:** Geriatric adverse reaction data must be included in the  
528 ADVERSE REACTIONS section.<sup>61</sup>  
529
- 530 • **USE IN SPECIFIC POPULATIONS, *Geriatric Use* subsection:** Only a summary  
531 statement of the approved geriatric indication(s) should be described in the *Geriatric Use*  
532 subsection. For example:  
533
- 534 “DRUG X is indicated in patients 65 years of age and older (for Indication A), and  
535 the information on this use is discussed throughout the labeling.”  
536
- 537 • **CLINICAL PHARMACOLOGY:** Data summarized in the *Geriatric Use* subsection  
538 must be discussed in more detail, if appropriate, in the CLINICAL PHARMACOLOGY  
539 section.<sup>62</sup> Detailed descriptions of geriatric pharmacokinetic, pharmacodynamic, and/or  
540 pharmacogenomic study data; relevant data obtained from population analyses; and dose  
541 response information should be included in this section.<sup>63</sup>  
542
- 543 • **CLINICAL STUDIES:** Data summarized in the *Geriatric Use* subsection must be  
544 discussed in more detail, if appropriate, in the CLINICAL STUDIES section.<sup>64</sup> Detailed  
545 descriptions of studies that provide substantial evidence of effectiveness for use in  
546 geriatric patients (e.g., study design(s), population(s), endpoint(s), results and limitations  
547 of the study design or evidence) should be provided in this section.<sup>65</sup>  
548  
549

550 **VI. DRUG IS NOT APPROVED IN THE GERIATRIC POPULATION**  
551

552 Drugs that are studied only in younger adult patients (not geriatric patients) are typically  
553 approved for all adult patients (including geriatric patients) because of generalizability of the  
554 evidence to geriatric patients, consistencies in the disease processes across geriatric and younger  
555 adults, and the drug’s overall benefits and risks. However, there are uncommon situations when  
556 the evidence does not support the use of a drug in a geriatric population because clinical studies

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<sup>60</sup> 21 CFR 201.57(c)(3)(C) and 21 CFR 201.57(c)(9)(v)(A).

<sup>61</sup> 21 CFR 201.57(c)(7).

<sup>62</sup> 21 CFR 201.57(c)(9)(v)(A) and 21 CFR 201.57(c)(9)(v)(C)(1).

<sup>63</sup> See the guidance for industry *Clinical Pharmacology Section of Labeling for Human Prescription Drug and Biological Products — Content and Format*. See also 21 CFR 201.57(c)(13).

<sup>64</sup> 21 CFR 201.57(c)(9)(v)(A).

<sup>65</sup> See the guidance for industry *Clinical Studies Section of Labeling for Human Prescription Drug and Biological Products — Content and Format*. See also 21 CFR 201.57(c)(15).

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557 did not include a sufficient number of geriatric patients to support geriatric use for an  
558 indication.<sup>66</sup> Additionally, there are uncommon situations when the evidence does not support  
559 the use of a drug in a geriatric population because the results of studies conducted in a geriatric  
560 population strongly suggest that the drug is ineffective or the benefit-risk profile is unfavorable  
561 (but the evidence falls short of warranting a contraindication).<sup>67</sup>

562  
563 We recommend applicants contact the Agency if they have questions about developing labeling  
564 for these uncommon situations.

565  
566 If the use of the drug in geriatric patients is associated with a risk or safety concern (hazard) in  
567 geriatric patients, the risk or safety concern must be described in the *Geriatric Use* subsection or,  
568 if appropriate, must be stated in the CONTRAINDICATIONS and/or WARNINGS AND  
569 PRECAUTIONS section(s), and the *Geriatric Use* subsection must cross-reference the section or  
570 sections, if appropriate.<sup>68</sup> Any such hazard must be stated in other sections of labeling (e.g.,  
571 BOXED WARNING), as appropriate.<sup>69</sup>

572

573

### **VII. OMITTING OR REVISING INFORMATION AND UPDATING LABELING**

574

575  
576 If an applicant believes that none of the requirements described in 21 CFR 201.57(c)(9)(v)(A) to  
577 (E) is appropriate or relevant to its drug’s labeling, the applicant must provide a rationale for  
578 omission of the statement(s) and may propose an alternative statement.<sup>70</sup> The FDA may permit  
579 omission of such statement(s) or alternative appropriate and accurate statement(s) if the FDA  
580 determines that no statement(s) described in 21 CFR 201.57(c)(9)(v)(A) to (E) are appropriate or  
581 relevant to the drug’s labeling.<sup>71</sup> In some circumstances, applicants should omit specific  
582 information otherwise required in the *Geriatric Use* subsection or omit the entire subsection  
583 because the information is clearly inapplicable; applicants must omit such specific information or

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<sup>66</sup> These situations are different from situations when the entire *Geriatric Use* subsection is omitted because the information is clearly inapplicable or misleading (see section VII., Omitting or Revising Information and Updating Labeling).

<sup>67</sup> *Ibid.*

<sup>68</sup> 21 CFR 201.57(c)(9)(v)(D).

<sup>69</sup> The BOXED WARNING section requires that certain contraindications or serious warnings may be required by the FDA to be presented in a box (21 CFR 201.57(c)(1)). The WARNINGS AND PRECAUTIONS “section must describe clinically significant adverse reactions (including any that are potentially fatal, are serious even if infrequent, or can be prevented or mitigated through appropriate use of the drug), other potential safety hazards” (21 CFR 201.57(c)(6)(i)). The CONTRAINDICATIONS “section must describe any situations in which the drug should not be used because the risk of use (e.g., certain potentially fatal adverse reactions) clearly outweighs any possible therapeutic benefit ... Known hazards and not theoretical possibilities must be listed” (21 CFR 201.57(c)(5)).

<sup>70</sup> 21 CFR 201.57(c)(9)(v)(F).

<sup>71</sup> *Ibid.*

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584 the entire subsection if it is misleading.<sup>72</sup> For example, if a drug is indicated for use only in  
585 neonates, the applicant should omit the *Geriatric Use* subsection because this subsection is  
586 clearly inapplicable. We recommend applicants contact the Agency if they have questions about  
587 omitting certain regulatory statements in the *Geriatric Use* subsection.  
588

589 Labeling must be updated when new information becomes available that causes the labeling to  
590 become inaccurate, false, or misleading.<sup>73</sup> Consistent with this requirement, when revising  
591 existing information in the labeling, applicants should evaluate labeling content to ensure that it  
592 accurately reflects current knowledge about the use of the drug in geriatric patients for all  
593 approved indications. Applicants should evaluate available results from postmarketing  
594 controlled clinical studies, well-documented studies obtained from a literature search that are  
595 available to the applicant and reasonably relevant to the use of the drug in geriatric patients,  
596 pharmacokinetic and pharmacodynamic studies conducted in geriatric patients, and adverse  
597 event reports.<sup>74</sup> Applicants should review and update sections of labeling pertinent to the  
598 geriatric use information as necessary when updating the labeling.

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<sup>72</sup> Under 21 CFR 201.56(a)(2), “labeling must be informative and accurate and neither promotional in tone nor false or misleading.” Under 21 CFR 201.56(d)(4), “[o]mit clearly inapplicable sections, subsections, or specific information.” For additional information on omitting information in labeling, see the guidance for industry *Labeling for Human Prescription Drug and Biological Products — Implementing the PLR Content and Format Requirements* (February 2013).

<sup>73</sup> 21 CFR 201.56(a)(2).

<sup>74</sup> See 21 CFR 201.57(c)(9)(v)(B), which requires that such information be reflected in the *Geriatric Use* subsection.