# Guidance for Industry and Review Staff

## Labeling for Human Prescription Drugs — Determining Established Pharmacologic Class for Use in the Highlights of Prescribing Information

**Good Review Practice** 

### DRAFT GUIDANCE

#### This guidance document is being distributed for comment purposes only.

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For questions regarding this draft document contact William Pierce at 301-796-0900.

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

> May 2007 Labeling

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Office of Training and Communications Division of Drug Information, HFD-240 Center for Drug Evaluation and Research Food and Drug Administration 5600 Fishers Lane Rockville, MD 20857 (Tel) 301-827-4573 http://www.fda.gov/cder/guidance/index.htm

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#### Guidance for Industry and Review Staff<sup>1</sup> Labeling for Human Prescription Drugs — Determining Established Pharmacologic Class for Use in the Highlights of Prescribing Information

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This draft guidance, when finalized, will represent the Food and Drug Administration's (FDA's) current thinking on this topic. It does not create or confer any rights for or on any person and does not operate to bind FDA or the public. You can use an alternative approach if the approach satisfies the requirements of the applicable statutes and regulations. If you want to discuss an alternative approach, contact the FDA staff responsible for implementing this guidance. If you cannot identify the appropriate FDA staff, call the appropriate number listed on the title page of this guidance.

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#### I. INTRODUCTION

This guidance is intended to help applicants and the review staff in the Center for Drug Evaluation and Research (CDER) at the Food and Drug Administration (FDA) determine when a drug<sup>2</sup> belongs to an established pharmacologic class as well as how to select the appropriate word or phrase (term) that describes the pharmacologic class for inclusion in the *Indications and Usage* section of Highlights of Prescribing Information (*Highlights*) of approved labeling.

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Although not specifically required, the pharmacologic class can also appear in other
sections of labeling. This guidance applies to the use of the pharmacologic class in the
*Indications and Usage* section of *Highlights* only.

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35 FDA's guidance documents, including this guidance, do not establish legally enforceable

- 36 responsibilities. Instead, guidances describe the Agency's current thinking on a topic and
- 37 should be viewed only as recommendations, unless specific regulatory or statutory
- 38 requirements are cited. The use of the word *should* in Agency guidances means that
- 39 something is suggested or recommended, but not required. Although guidance

<sup>&</sup>lt;sup>1</sup> This guidance has been prepared by the Office of New Drugs in the Center for Drug Evaluation and Research (CDER) at the Food and Drug Administration.

 $<sup>^{2}</sup>$  For the purposes of this guidance, all references to *drugs* include both human drugs and therapeutic biological products unless otherwise specified.

40 41 42 43		ocuments do not legally bind FDA, review staff may depart from guidance documents nly with appropriate justification and supervisory concurrence.							
44 45	II.	BACH	KGROUND						
46 47 48 49 50 51	In January 2006, the FDA published a final rule that amended the requirements for the content and format of labeling for human prescription drug and biological products. <sup>3</sup> The new labeling format is intended to make it easier for health care professionals to access, read, and use the information in prescription drug labeling, thereby facilitating professionals' use of labeling to make prescribing decisions.								
52 53 54		le requires the following statement to appear under the <i>Indications and Usage</i> of <i>Highlights</i> if a drug is a member of an established pharmacologic class: <sup>4</sup>							
55 56		"( <u>Drug</u> ) is a ( <u>name of class</u> ) indicated for ( <u>indication(s)</u> )."							
57 58 59	If a drug does <i>not</i> have an <i>established</i> pharmacologic class, the statement must be omitted from the <i>Indications and Usage</i> section of <i>Highlights</i> .								
60 61 62 63 64 65	Knowing the established pharmacologic class can provide health care professionals with important information about what to expect from a drug and how it relates to other therapeutic options. Such information can also help reduce the risk of duplicative therapy and drug interactions.								
66 67	III.	DEFI	NITIONS						
67 68 69		А.	Pharmacologic Class						
70 71 72 73 74	produc effecti	ts that veness.	of this guidance, a <i>pharmacologic class</i> is a group of drug or biological share scientifically documented properties related to safety and Specifically, for purposes of this guidance, <i>pharmacologic class</i> is defined f any one of the following three attributes of the drug substance:						
75 76 77	1.		anism of action (MOA) — Pharmacologic action at the receptor, membrane, ue level						
78 79 80	2.	Physic body l	ologic effect (PE) — Pharmacologic effect at the organ, system, or whole evel						
80 81	3.	Chemi	ical structure (CS)						

<sup>&</sup>lt;sup>3</sup> See 21 CFR parts 201, 314, and 601 *Requirements on Content and Format of Labeling for Human Prescription Drug and Biological Products* (71 FR 3922).

<sup>&</sup>lt;sup>4</sup> See 21 CFR 201.57(a)(6).

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83		B. Established Pharmacologic Class				
84						
85	An established pharmacologic class is one that the FDA has determined to be					
86	scientifically valid <i>and</i> clinically meaningful according to the following definitions:					
87						
88	•	A scientifically valid pharmacologic class is supported by documented and				
89	•	submitted empiric evidence showing that the drug's pharmacologic class is				
90		known, not theoretical, and relevant and specific to the indication.				
91		known, not incorchear, and relevant and specific to the indication.				
	_					
92	•	A <i>clinically meaningful</i> pharmacologic class enhances the ability of professionals				
93		to understand therapeutic effects related to the indication or to anticipate				
94		undesirable effects that may be associated with the drug.				
95						
96						
97	IV.	IDENTIFYING AN ESTABLISHED PHARMACOLOGIC CLASS				
98						
99		ften possible to identify multiple scientifically valid pharmacologic classes.				
100		ver, only pharmacologic classes that are also <i>clinically meaningful</i> will be				
101	consid	lered to be established pharmacologic classes. Consider the following examples:				
102						
103	•	Drug A				
104		MOA = Beta-adrenergic blocker				
105		PE = Negative inotropy and chronotropy				
106		CS = Benzeneacetamide				
107						
108		In this case, the most clinically meaningful term is the MOA.				
109						
110		"Drug A is a <i>beta-adrenergic blocker</i> indicated for treatment of				
111		hypertension."				
112		ny percension.				
112	•	Drug B				
113	•	MOA = Inhibitor of reabsorption of sodium and chloride ions in the kidney				
114		PE = Loop diuretic				
115		CS = Anthranilic acid derivative				
		CS – Anumannic acid derivative				
117		In this case, the most eligically meaningful terms is the DE				
118		In this case, the most clinically meaningful term is the PE.				
119						
120		"Drug B is a <i>loop diuretic</i> indicated for treatment of edema associated with				
121		congestive heart failure."				
122						
123	•	Drug C				
124		MOA = GABA A and B Modulator				
125		PE = Increased GABA activity				
126		CS = Benzodiazepine				
127						

128	In this case, the most clinically meaningful term is the CS.				
129					
130	"Drug C is a <i>benzodiazepine</i> indicated for management of anxiety disorders.	."			
131					
132	It may be appropriate to include a combination of established pharmacologic classes if				
133	more than one attribute of the drug is clinically meaningful. The following situations are				
134	examples of when it is appropriate to use multiple established pharmacologic classes:				
135					
136	• The CS provides additional meaningful information to prescribers beyond that				
137	provided by MOA or PE alone.				
138					
139	"Drug D is a <i>thiazide diuretic</i> indicated for treatment of edema associated				
140	with congestive heart failure."				
141	č				
142	• A combination of different levels of specificity of MOA or PE provides clinicall	v			
143	meaningful information to prescribers.				
144					
145	Many drugs contain more than one active ingredient. These active ingredients can be				
146	members of the same or different pharmacologic classes. These pharmacologic classes				
147	can apply to the same or different indications. The following examples illustrate different				
148	situations that may be encountered:				
149					
150	• For products with more than one drug where all drugs are in the same				
150	pharmacologic class:				
152	pharmaeologie eluss.				
152	"Product X is a combination of Drug E and Drug F, both <i>HIV nucleoside</i>				
154	analog reverse transcriptase inhibitors, indicated for use in combination wi	th			
155	other antiretroviral agents for treatment of HIV infection."	un			
156	other untited of the agents for redunient of the micetion.				
157	• For products with more than one drug where the drugs are from different				
157	pharmacologic classes:				
150	pharmaeologie elasses.				
160	"Product Y is a combination of Drug G, a <i>thiazide diuretic</i> , and Drug H, a				
161	<i>potassium-sparing diuretic</i> , indicated for hypertension."				
162	poussium-sparing durence, indicated for hypottension.				
162	Note: For drugs that are not combination products but are approved for use with				
163	other drug products named specifically by proprietary name or nonproprietary				
165	name in the <i>Indications and Usage</i> section, the pharmacologic class for the				
165	concomitant drug should not be included.				
167	conconntant drug should not be meruded.				
167					
169	V. IDENTIFYING THE MOST APPROPRIATE TERM TO DESCRIBE AN				
170	ESTABLISHED PHARMACOLOGIC CLASS				
170					
172	For new drugs that are undergoing review for marketing or licensing approval, the FDA				
172	will review a proposed established phormacologic class for scientific validity based on				

For new drugs that are undergoing review for marketing or licensing approval, the FDA will review a proposed established pharmacologic class for scientific validity based on

- submitted evidence supporting the claim that the pharmacologic class is known and
- relevant to the indication under review. The FDA will also evaluate the clinical
- 176 meaningfulness of the proposed class based on the potential for this classification to aid 177 in the understanding of the drug's effects, including side effects.
- 178
- According to 21 CFR 314.70(b)(2)(v)(C), for approved drugs for which the applicant
- 180 plans to update the labeling or convert the labeling to a format consistent with the final
- rule, the addition of an established pharmacologic class term to the *Indications and*
- 182 Usage section of *Highlights* of approved drug labeling is a change that must be proposed
- and submitted in a prior-approval labeling supplement.
- 184
- 185 When identifying a term to describe an established pharmacologic class for a drug, it is 186 important to consider other drugs that share therapeutic, mechanistic, or structural
- 187 similarity. Misleading or potentially confusing established pharmacologic class terms
- 188 can be avoided by achieving consistency in terminology, where appropriate, across drugs
- 189 used for similar purposes.
- 190
- 191 Along with the proprietary name, the drug product's established name (or the proper
- 192 name or names for a biological product) must be displayed at the beginning of
- 193 *Highlights.*<sup>5</sup> If the established name or proper name that is displayed at the beginning of
- 194 Highlights includes a term that may also serve as an established pharmacologic class, that
- 195 term should not be included under the *Indications and Usage* section of *Highlights*.
- 196
- 197 Parentheses should not be used to indicate auxiliary or less-important pharmacologic
- 198 class terms.
- 199

<sup>&</sup>lt;sup>5</sup> See 21 CFR 201.57(a)(2).