CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

214133Orig1s000

PROPRIETARY NAME REVIEW(S)

PROPRIETARY NAME REVIEW

Division of Medication Error Prevention and Analysis (DMEPA)

Office of Medication Error Prevention and Risk Management (OMEPRM)

Office of Surveillance and Epidemiology (OSE)

Center for Drug Evaluation and Research (CDER)

*** This document contains proprietary information that cannot be released to the public***

Date of This Review: May 11, 2021

Application Type and Number: NDA 214133

Product Name and Strength: Recorlev (levoketoconazole) tablet, 150 mg

Product Type: Single Ingredient Product

Rx or OTC: Prescription (Rx)

Applicant/Sponsor Name: Strongbridge Dublin Limited (Strongbridge)

PNR ID #: 2021-1044723845

DMEPA Safety Evaluator: Madhuri R. Patel, PharmD

DMEPA Team Leader: Sevan Kolejian, PharmD, MBA, BCPPS

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1 INTRODUCTION

This review evaluates the proposed proprietary name, Recorlev, from a safety and misbranding perspective. The sources and methods used to evaluate the proposed proprietary name are outlined in the reference section and Appendix A respectively. Strongbridge did not submit an external name study for this proposed proprietary name.

1.1 REGULATORY HISTORY

Strongbridge previously submitted the proposed proprietary name, Recorlev*** on August 23, 2016. We found the name, Recorlev*** acceptable under IND 115968 on January 23, 2017.a

Thus, Strongbridge submitted the name, Recorley, for review under NDA 214133 on March 1, 2021.

1.2 PRODUCT INFORMATION

The following product information is provided in the proprietary name submission received on March 1, 2021.

- Intended Pronunciation: re kor ' lev
- Active Ingredient: levoketoconazole
- Indication of Use: treatment of adult patients with endogenous Cushing's syndrome,
- Route of Administration: oral
- Dosage Form: tablet
- Strength: 150 mg
- Dose and Frequency: recommended starting dose is 150 mg (1 tablet) twice daily to be increased in 150 mg increments every 2 to 3 weeks based on the patient's clinical response and tolerability. The maximum recommended dose is 600 mg (4 tablets) twice daily (1,200 mg total daily dose)
- How Supplied: Bottles of 50 with child-resistant closure
- Storage: 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) (see USP controlled room temperature)
- Reference Listed Drug/Reference Product: Nizoral (ketoconazole) [NDA 018533]

2 RESULTS

The following sections provide information obtained and considered in the overall evaluation of the proposed proprietary name, Recorlev.

^a Vee, S. Proprietary Name Review for Recorlev*** (IND 115968). Silver Spring (MD): FDA, CDER, OSE, DMEPA (US); 2017 JAN 23. Panorama No. 2016-9812894.

2.1 MISBRANDING ASSESSMENT

The Office of Prescription Drug Promotion (OPDP) determined that Recorlev would not misbrand the proposed product. The Division of Medication Error Prevention and Analysis (DMEPA) and the Division of General Endocrinology (DGE) concurred with the findings of OPDP's assessment for Recorley.

2.2 SAFETY ASSESSMENT

The following aspects were considered in the safety evaluation of the proposed proprietary name, Recorley.

2.2.1 United States Adopted Names (USAN) Search

There is no USAN stem present in the proposed proprietary name^b.

2.2.2 Components of the Proposed Proprietary Name

Strongbridge did not provide a derivation or intended meaning for the proposed proprietary name, Recorlev, in their submission. This proprietary name is comprised of a single word that does not contain any components (i.e. a modifier, route of administration, dosage form, etc.) that are misleading or can contribute to medication error.

2.2.3 Comments from Other Review Disciplines at Initial Review

On April 5, 2021, the Division of General Endocrinology (DGE) did not forward any comments or concerns relating to Recorlev at the initial phase of the review.

2.2.4 FDA Name Simulation Studies

Eight-five (n=85) practitioners participated in DMEPA's prescription studies for Recorlev. In the computerized physician order entry (CPOE) portion of the FDA Name Simulation Study, one participant typed the letters 'Recr' and incorrectly selected the currently marketed name, "Recarbrio" from among a static pick list of 24 names that begin with the letter "R".

Orthographically, the suffixes ('lev' vs. 'brio') of this name pair provides sufficient orthographic differences. Phonetically, Recarbrio name contains an extra syllable and the third syllables of this name pair ('lev' vs. 'bri) sound different.

With respect to product characteristics, we note that there is no numerical overlap between the product doses (150 mg, 300 mg, 450 mg, or 600 mg *versus* 1.25 g, 1 g, 0.75 g and 0.5 g). If a healthcare provider selects Recarbrio in CPOE by error (instead of the intended Recorlev) or vice versa, the provider will need to select the dose and frequency of administration (twice daily *versus* every 6 hours). Additionally, we note that the products are available in different dosage forms (tablet *versus* for injection), administered via different routes of administration (oral *versus* intravenous). Therefore, as the healthcare provider selects the product via CPOE, we anticipate that these differences in product characteristics may also help to mitigate the risk of name confusion. When all of the aforementioned mitigations are considered in totality, we find

^b USAN stem search conducted on March 26, 2021.

the risk of confusion is adequately minimized in this case. We evaluate this name pair in Appendix E.

The remaining responses did not overlap with any currently marketed products nor did the responses sound or look similar to any currently marketed products or any products in the pipeline. Appendix B contains the results from the prescription simulation studies.

2.2.5 Phonetic and Orthographic Computer Analysis (POCA) Search Results

Our POCA search^c identified 89 names with the combined score of $\geq 55\%$ or individual orthographic or phonetic score of $\geq 70\%$. We had identified and evaluated some of the names in our previous proprietary name review. We re-evaluated the previously identified names of concern considering any lessons learned from recent post-marketing experience, which may have altered our previous conclusion regarding the acceptability of the name. We note that the indication has been changed from the "

(b) (4) " to "treatment of adult patients with endogenous

Cushing's syndrome,

our previous review for the names evaluated previously. Therefore, we identified 50 names not previously analyzed. These names are included in Table 1 below.

2.2.6 Names Retrieved for Review Organized by Name Pair Similarity

Table 1 lists the number of names retrieved from our POCA search and FDA Prescription Simulation Study. These name pairs are organized as highly similar, moderately similar or low similarity for further evaluation.

Table 1. Names Retrieved for Review Organized by Name Pair Similarity			
Similarity Category	Number of Names		
Highly similar name pair: combined match percentage score ≥70%	1		
Moderately similar name pair: combined match percentage score ≥55% to ≤ 69%	26		
Low similarity name pair: combined match percentage score ≤54%	25		

2.2.7 Safety Analysis of Names with Potential Orthographic, Spelling, and Phonetic Similarities

Our analysis of the 52 names contained in Table 1 determined none of the names will pose a risk for confusion with Recorlev as described in Appendices C through H.

^c POCA search conducted on March 26, 2021 in version 4.4.

2.2.8 Communication of DMEPA's Analysis at Midpoint of Review

DMEPA communicated our findings to the Division of General Endocrinology (DGE). At that time, we also requested additional information or concerns that could inform our review. On May 11, 2021, the Division of General Endocrinology (DGE) stated no additional concerns with the proposed proprietary name, Recorlev.

3 CONCLUSION

The proposed proprietary name, Recorlev, is acceptable.

If you have any questions or need clarifications, please contact Deveonne Hamilton-Stokes, OSE project manager, at 301-796-2253.

3.1 COMMENTS TO STRONGBRIDGE DUBLIN LIMITED

We have completed our review of the proposed proprietary name, Recorlev, and have concluded that this name is acceptable.

If any of the proposed product characteristics as stated in your submission, received on March 1, 2021, are altered prior to approval of the marketing application, the name must be resubmitted for review.

4 REFERENCES

USAN Stems (<u>https://www.ama-assn.org/about/united-states-adopted-names-approved-stems</u>)
 USAN Stems List contains all the recognized USAN stems.

2. Phonetic and Orthographic Computer Analysis (POCA)

POCA is a system that FDA designed. As part of the name similarity assessment, POCA is used to evaluate proposed names via a phonetic and orthographic algorithm. The proposed proprietary name is converted into its phonemic representation before it runs through the phonetic algorithm. Likewise, an orthographic algorithm exists that operates in a similar fashion. POCA is publicly accessible.

Drugs@FDA

Drugs@FDA is an FDA Web site that contains most of the drug products approved in the United States since 1939. The majority of labels, approval letters, reviews, and other information are available for drug products approved from 1998 to the present. Drugs@FDA contains official information about FDA-approved *brand name* and *generic drugs*; *therapeutic biological products*, *prescription* and *over-the-counter* human drugs; and *discontinued drugs* (see Drugs @ FDA Glossary of Terms, available at http://www.fda.gov/Drugs/InformationOnDrugs/ucm079436.htm#ther-biological).

RxNorm

RxNorm contains the names of prescription and many OTC drugs available in the United States. RxNorm includes generic and branded:

- Clinical drugs pharmaceutical products given to (or taken by) a patient with therapeutic or diagnostic intent
- Drug packs packs that contain multiple drugs, or drugs designed to be administered in a specified sequence

Radiopharmaceuticals, contrast media, food, dietary supplements, and medical devices, such as bandages and crutches, are all out of scope for RxNorm (http://www.nlm.nih.gov/research/umls/rxnorm/overview.html).

Division of Medication Errors Prevention and Analysis proprietary name consultation requests

This is a list of proposed and pending names that is generated by the Division of Medication Error Prevention and Analysis from the Access database/tracking system.

APPENDICES

Appendix A

FDA's Proprietary Name Risk Assessment evaluates proposed proprietary names for misbranding and safety concerns.

- 1. **Misbranding Assessment**: For prescription drug products, OPDP assesses the name for misbranding concerns. For over-the-counter (OTC) drug products, the misbranding assessment of the proposed name is conducted by DNDP. OPDP or DNDP evaluates proposed proprietary names to determine if the name is false or misleading, such as by making misrepresentations with respect to safety or efficacy. For example, a fanciful proprietary name may misbrand a product by suggesting that it has some unique effectiveness or composition when it does not (21 CFR 201.10(c)(3)). OPDP or DNDP provides their opinion to DMEPA for consideration in the overall acceptability of the proposed proprietary name.
- 2. **Safety Assessment**: The safety assessment is conducted by DMEPA, and includes the following:
- a. Preliminary Assessment: We consider inclusion of USAN stems or other characteristics that when incorporated into a proprietary name may cause or contribute to medication errors (i.e., dosing interval, dosage form/route of administration, medical or product name abbreviations, names that include or suggest the composition of the drug product, etc.) See prescreening checklist below in Table 2*. DMEPA defines a medication error as any preventable event that may cause or lead to inappropriate medication use or patient harm while the medication is in the control of the health care professional, patient, or consumer. d

^d National Coordinating Council for Medication Error Reporting and Prevention. https://www.nccmerp.org/about-medication-errors Last accessed 10/05/2020.

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*Table 2- Prescreening Checklist for Proposed Proprietary Name

	Answer the questions in the checklist below. Affirmative answers to any of these questions indicate a potential area of concern that should be carefully evaluated as described in this guidance.
Y/N	Is the proposed name obviously similar in spelling and pronunciation to other names?
	Proprietary names should not be similar in spelling or pronunciation to proprietary names, established names, or ingredients of other products.
Y/N	Are there inert or inactive ingredients referenced in the proprietary name?
	Proprietary names should not incorporate any reference to an inert or inactive ingredient in a way that might create an impression that the ingredient's value is greater than its true functional role in the formulation (21 CFR 201.10(c)(4)).
Y/N	Does the proprietary name include combinations of active ingredients?
	Proprietary names of fixed combination drug products should not include or suggest the name of one or more, but not all, of its active ingredients (see 21 CFR 201.6(b)).
Y/N	Is there a United States Adopted Name (USAN) stem in the proprietary name?
	Proprietary names should not incorporate a USAN stem in the position that USAN designates for the stem.
Y/N	Is this proprietary name used for another product that does not share at least one common active ingredient?
	Drug products that do not contain at least one common active ingredient should not use the same (root) proprietary name.
Y/N	Is this a proprietary name of a discontinued product?
	Proprietary names should not use the proprietary name of a discontinued product if that discontinued drug product does not contain the same active ingredients.

- b. Phonetic and Orthographic Computer Analysis (POCA): Following the preliminary screening of the proposed proprietary name, DMEPA staff evaluates the proposed name against potentially similar names. In order to identify names with potential similarity to the proposed proprietary name, DMEPA enters the proposed proprietary name in POCA and queries the name against the following drug reference databases, Drugs@fda, CernerRxNorm, and names in the review pipeline using a 55% threshold in POCA. DMEPA reviews the combined orthographic and phonetic matches and group the names into one of the following three categories:
 - Highly similar pair: combined match percentage score $\geq 70\%$.
 - Moderately similar pair: combined match percentage score \geq 55% to \leq 69%.

• Low similarity: combined match percentage score ≤54%.

Using the criteria outlined in the check list (Table 3-5) that corresponds to each of the three categories (highly similar pair, moderately similar pair, and low similarity), DMEPA evaluates the name pairs to determine the acceptability or non-acceptability of a proposed proprietary name. The intent of these checklists is to increase the transparency and predictability of the safety determination of whether a proposed name is vulnerable to confusion from a look-alike or sound-alike perspective. Each bullet below corresponds to the name similarity category cross-references the respective table that addresses criteria that DMEPA uses to determine whether a name presents a safety concern from a look-alike or sound-alike perspective.

- For highly similar names, differences in product characteristics often cannot mitigate the risk of a medication error, including product differences such as strength and dose. Thus, proposed proprietary names that have a combined score of ≥ 70 percent are at risk for a look-alike sound-alike confusion which is an area of concern (See Table 3).
- Moderately similar names are further evaluated to identify the presence of attributes that are known to cause name confusion.
 - Name attributes: We note that the beginning of the drug name plays a significant role in contributing to confusion. Additionally, drug name pairs that start with the same first letter and contain a shared letter string of at least 3 letters in both names are major contributing factor in the confusion of drug names. We evaluate all moderately similar names retrieved from POCA to identify the above attributes. These names are further evaluated to identify overlapping or similar strengths or doses.
 - Product attributes: Moderately similar names of products that have overlapping or similar strengths or doses represent an area for concern for FDA. The dose and strength information is often located in close proximity to the drug name itself on prescriptions and medication orders, and the information can be an important factor that either increases or decreases the potential for confusion between similarly named drug pairs. The ability of other product characteristics to mitigate confusion (e.g., route, frequency, dosage form) may be limited when the strength or dose overlaps. DMEPA reviews such names further, to determine whether sufficient differences exist to prevent confusion. (See Table 4).
- Names with low similarity that have no overlap or similarity in strength and dose are generally acceptable (See Table 5) unless there are data to suggest that the name might be vulnerable to confusion (e.g., prescription simulation study suggests that the name is likely to be misinterpreted as a marketed product). In these instances, we would reassign

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^e Shah, M, Merchant, L, Characteristics That May Help in the Identification of Potentially Confusing Proprietary Drug Names. Therapeutic Innovation & Regulatory Science, September 2016

a low similarity name to the moderate similarity category and review according to the moderately similar name pair checklist.

c. FDA Prescription Simulation Studies: DMEPA staff also conducts a prescription simulation studies using FDA health care professionals.

Four separate studies are conducted within the Centers of the FDA for the proposed proprietary name to determine the degree of confusion of the proposed proprietary name with marketed U.S. drug names (proprietary and established) due to similarity in visual appearance with handwritten prescriptions, verbal pronunciation of the drug name or during computerized provider order entry. The studies employ healthcare professionals (pharmacists, physicians, and nurses), and attempts to simulate the prescription ordering process. The primary Safety Evaluator uses the results to identify vulnerability of the proposed name to be misinterpreted by healthcare practitioners during written, verbal, or electronic prescribing.

In order to evaluate the potential for misinterpretation of the proposed proprietary name during written, verbal, or electronic prescribing of the name, written inpatient medication orders, written outpatient prescriptions, verbal orders, and electronic orders are simulated, each consisting of a combination of marketed and unapproved drug products, including the proposed name.

d. Comments from Other Review Disciplines: DMEPA requests the Office of New Drugs (OND) and/or Office of Generic Drugs (OGD), ONDQA or OBP for their comments or concerns with the proposed proprietary name, ask for any clinical issues that may impact the DMEPA review during the initial phase of the name review. Additionally, when applicable, at the same time DMEPA requests concurrence/non-concurrence with OPDP's decision on the name. The primary Safety Evaluator addresses any comments or concerns in the safety evaluator's assessment.

The OND/OGD Regulatory Division is contacted a second time following our analysis of the proposed proprietary name. At this point, DMEPA conveys their decision to accept or reject the name. The OND or OGD Regulatory Division is requested to provide any further information that might inform DMEPA's final decision on the proposed name.

Additionally, other review disciplines opinions such as ONDQA or OBP may be considered depending on the proposed proprietary name.

When provided, DMEPA considers external proprietary name studies conducted by or for the Applicant/Sponsor and incorporates the findings of these studies into the overall risk assessment.

The DMEPA primary reviewer assigned to evaluate the proposed proprietary name is responsible for considering the collective findings, and provides an overall risk assessment of the proposed proprietary name.

Table 3. Highly Similar Name Pair Checklist (i.e., combined Orthographic and Phonetic score is $\geq 70\%$).

Answer the questions in the checklist below. Affirmative answers to some of these questions suggest that the pattern of orthographic or phonetic differences in the names may render the names less likely to confusion, provided that the pair does not share a common strength or dose.

	Orthographic Checklist	Phonetic Checklist	
Y/N	Do the names begin with different first letters?	Y/N	Do the names have different number of syllables?
	Note that even when names begin with different first letters, certain letters may be confused with each other when scripted.		
Y/N	Are the lengths of the names dissimilar* when scripted?	Y/N	Do the names have different syllabic stresses?
	*FDA considers the length of names different if the names differ by two or more letters.		
Y/N	Considering variations in scripting of some letters (such as <i>z</i> and <i>f</i>), is there a different number or placement of upstroke/downstroke letters present in the names?	Y/N	Do the syllables have different phonologic processes, such vowel reduction, assimilation, or deletion?
Y/N	Is there different number or placement of cross-stroke or dotted letters present in the names?	Y/N	Across a range of dialects, are the names consistently pronounced differently?
Y/N	Do the infixes of the name appear dissimilar when scripted?		
Y/N	Do the suffixes of the names appear dissimilar when scripted?		

Table 4: Moderately Similar Name Pair Checklist (i.e., combined score is $\geq 55\%$ to $\leq 69\%$).

Step 1 Review the DOSAGE AND ADMINISTRATION and HOW SUPPLIED/STORAGE AND HANDLING sections of the prescribing information (or for OTC drugs refer to the Drug Facts label) to determine if strengths and doses of the name pair overlap or are very similar. Different strengths and doses for products whose names are moderately similar may decrease the risk of confusion between the moderately similar name pairs. Name pairs that have overlapping or similar strengths or doses have a higher potential for confusion and should be evaluated further (see Step 2). Because the strength or dose could be used to express an order or prescription for a particular drug product, overlap in one or both of these components would be reason for further evaluation.

For single strength products, also consider circumstances where the strength may not be expressed.

For any i.e. drug products comprised of more than one active ingredient, consider whether the strength or dose may be expressed using only one of the components.

To determine whether the strengths or doses are similar to your proposed product, consider the following list of factors that may increase confusion:

- Alternative expressions of dose: 5 mL may be listed in the prescribing information, but the dose may be expressed in metric weight (e.g., 500 mg) or in non-metric units (e.g., 1 tsp, 1 tablet/capsule). Similarly, a strength or dose of 1000 mg may be expressed, in practice, as 1 g, or vice versa.
- Trailing or deleting zeros: 10 mg is similar in appearance to 100 mg which may potentiate confusion between a name pair with moderate similarity.
- Similar sounding doses: 15 mg is similar in sound to 50 mg

Step 2 Answer the questions in the checklist below. Affirmative answers to some of these questions suggest that the pattern of orthographic or phonetic differences in the names may reduce the likelihood of confusion for moderately similar names with overlapping or similar strengths or doses.

Orthographic Checklist (Y/N to each question)

- Do the names begin with different first letters?
 - Note that even when names begin with different first letters, certain letters may be confused with each other when scripted.
- Are the lengths of the names dissimilar* when scripted?
 *FDA considers the length of names
 - *FDA considers the length of names different if the names differ by two or more letters.
- Considering variations in scripting of some letters (such as *z* and *f*), is there a different number or placement of upstroke/downstroke letters present in the names?
- Is there different number or placement of cross-stroke or dotted letters present in the names?
- Do the infixes of the name appear dissimilar when scripted?
- Do the suffixes of the names appear dissimilar when scripted?

Phonetic Checklist (Y/N to each question)

- Do the names have different number of syllables?
- Do the names have different syllabic stresses?
- Do the syllables have different phonologic processes, such vowel reduction, assimilation, or deletion?
- Across a range of dialects, are the names consistently pronounced differently?

Table 5: Low Similarity Name Pair Checklist (i.e., combined score is ≤54%).

Names with low similarity are generally acceptable unless there are data to suggest that the name might be vulnerable to confusion (e.g., prescription simulation study suggests that the name is likely to be misinterpreted as a marketed product). In these instances, we would reassign a low similarity name to the moderate similarity category and review according to the moderately similar name pair checklist.

Appendix B: Prescription Simulation Samples and Results

Figure 1. Recorlev Study (Conducted on March 12, 2021)

Handwritten Medication Order/Prescription	Verbal Prescription
Medication Order:	Recorlev
Recorder 600 mg by mouth twice daily	Take 1 tablet by mouth twice daily. Dispense
Outpatient Prescription:	
Recorder	
1 tob p B10	
# 62	
CPOE Study Sample (displayed as sans-serif, 12-point, bold font)	
Recorlev	

FDA Prescription Simulation Responses (<u>Aggregate Report</u>)

209 People Received Study 85 People Responded

Study Name: Recorlev

Total	16	33	19	17	
INTERPRETATION	OUTPATIENT	CPOE	VOICE	INPATIENT	TOTAL
?	0	0	1	0	1
RECARBRIO	0	1	0	0	1
RECORDER	0	0	0	1	1
RECORDLEV	0	0	11	0	11
RECORDLIV	0	0	1	0	1
RECORLEN	0	0	0	1	1
RECORLER	4	0	0	3	7
RECORLEV	12	32	2	12	58

RECORLIV	0	0	2	0	2
REGORLEV	0	0	2	0	2

Appendix C: Highly Similar Names (e.g., combined POCA score is ≥70%)

No.	Proposed name: Recorlev	POCA	Orthographic and/or phonetic
	Established name:	Score (%)	differences in the names sufficient to
	levoketoconazole		prevent confusion
	Dosage form: tablet		
	Strength(s): 150 mg		Other prevention of failure mode
	Usual Dose: Starting dose is		expected to minimize the risk of
	150 mg twice daily to be		confusion between these two names.
	increased in 150 mg increments		
	every 2 to 3 weeks based on the		
	patient's clinical response and		
	tolerability. The maximum		
	recommended dose is 600 mg		
	twice daily (1200 mg total daily		
	dose)		
1.	Recorlev***	100	Subject of this review.

Appendix D: Moderately Similar Names (e.g., combined POCA score is \geq 55% to \leq 69%) with no overlap or numerical similarity in Strength and/or Dose – N/A

<u>Appendix E:</u> Moderately Similar Names (e.g., combined POCA score is ≥55% to ≤69%) with

overlap or numerical similarity in Strength and/or Dose

No.	Proposed name: Recorlev	POCA	Prevention of Failure Mode
	Established name:	Score (%)	
	levoketoconazole		In the conditions outlined below, the
	Dosage form: tablet		following combination of factors, are
	Strength(s): 150 mg		expected to minimize the risk of
	Usual Dose: Starting dose is		confusion between these two names
	150 mg twice daily to be		
	increased in 150 mg increments		
	every 2 to 3 weeks based on the		
	patient's clinical response and		
	tolerability. The maximum		
	recommended dose is 600 mg		
	twice daily (1200 mg total daily		
	dose)		
1.	Revcovi	60	This name pair has sufficient
			orthographic and phonetic differences.
2.	Nicorelief	58	This name pair has sufficient
			orthographic and phonetic differences.
3.	Ceclor	56	This name pair has sufficient
			orthographic and phonetic differences.
4.	Corvert	56	This name pair has sufficient
			orthographic and phonetic differences.

No. 5.	Proposed name: Recorlev Established name: levoketoconazole Dosage form: tablet Strength(s): 150 mg Usual Dose: Starting dose is 150 mg twice daily to be increased in 150 mg increments every 2 to 3 weeks based on the patient's clinical response and tolerability. The maximum recommended dose is 600 mg twice daily (1200 mg total daily dose) Gel cord	POCA Score (%)	In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names This name pair has sufficient
			orthographic and phonetic differences.
6.	Rectasol	55	This name pair has sufficient orthographic and phonetic differences.
7.	Recarbrio	54	Orthographically, the suffixes ('lev' vs. 'brio') of this name pair provides sufficient orthographic differences. Phonetically, Recarbrio contains an extra syllable. Also, the third syllables of this name pair ('lev' vs. 'bri) sound different. With respect to product characteristics, we note that there is no numerical overlap between the product doses (150 mg, 300 mg, 450 mg, or 600 mg versus 1.25 g, 1 g, 0.75 g and 0.5 g). If a healthcare provider selects Recarbrio in CPOE by error (instead of the intended Recorlev) or vice versa, the provider will need to select the dose and frequency of administration (twice daily versus every 6 hours). Additionally, we note that the products are available in different dosage forms (tablet versus for injection), administered via different routes of administration (oral versus intravenous). Therefore, as the healthcare provider selects the product via CPOE, we anticipate that these differences in product characteristics may also help to mitigate the risk of

No.	Proposed name: Recorlev Established name: levoketoconazole Dosage form: tablet Strength(s): 150 mg Usual Dose: Starting dose is 150 mg twice daily to be increased in 150 mg increments every 2 to 3 weeks based on the patient's clinical response and tolerability. The maximum	POCA Score (%)	In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
	recommended dose is 600 mg twice daily (1200 mg total daily dose)		
			name confusion. When all of the aforementioned mitigations are considered in totality, we find the risk of confusion is adequately minimized in this case.

Appendix F: Low Similarity Names (e.g., combined POCA score is ≤54%)

No.	Name	POCA Score (%)
1.	Colrex	54
2.	Evorel 100	54
3.	Evorel 25	
4.	Evorel 50	
5.	Evorel 75	
6.	Hectorol	54
7.	Percolone	54
8.	Predcor	54
9.	Regen-Cov2***	54
10.	Clevecord***	52
11.	Cresol	52
12.	Relcof C	52
13.	(b) (4) ***	52
14.	Viorele	52
15.	Orelvo***	51
16.	Creosol	50
17.	Relovox	50
18.	Cerovel	49
19.	Lorelco	48
20.	Releev Cold Sore	48
21.	Ecocare	47

No.	Name	POCA
		Score (%)
22.	Ecocare 250	
23.	Ecocare 350	
24.	Ecocare 370	
25.	Encore	44

<u>Appendix G:</u> Names not likely to be confused or not used in usual practice settings for the reasons described.

No.	Name	POCA Score (%)	Failure preventions
1.	(b) (4) ***	66	Proposed proprietary name for IND (b) (4) found unacceptable by DMEPA (OSE# (b) (4) (b) (4)). IND (b) (4) is pending and no new names have been submitted.
2.	(b) (4) ***	60	Proposed proprietary name for NDA found acceptable by DMEPA (OSE # (b) (4) received a Complete Response action on (b) (4) and the NDA has not been resubmitted.
3.	(b) (4) ***	58	Proposed proprietary name for IND found unacceptable by DMEPA (OSE# (b) (4)) because of promotional concerns with the name. No new name has been submitted.
4.	(b) (4) ***	57	Proposed proprietary name for NDA 213691 found unacceptable by DMEPA (OSE# 2019-33278880). NDA 213691 approved under the proprietary name Impeklo.
5.	(b) (4) ***	56	Name identified in Names Entered by Safety Evaluator database. This product is not a drug product; it is umbilical cord blood.
6.	Revolt	56	Veterinary product.

No.	Name	POCA Score (%)	Failure preventions
7.	Percorten	55	Veterinary product. Also, under Drugs@FDA. Brand discontinued with no generic equivalents available. NDA 005151 and NDA 008822 withdrawn FR effective and 07/25/1997 and 07/26/1993, respectively.
8.	Rescufolin	55	International product formerly marketed in the United Kingdom.
9.	Rideril	55	International product formerly marketed in the United Kingdom.
10.	(b) (4) ***	55	Withdrawn proposed proprietary name for NDA (b) (4) . Alternate proposed proprietary name, (b) (4) ***, found conditionally acceptable (RCM (b) (4)) on (b) (4) . The application was withdrawn by the Applicant on (b) (4) .

Appendix H: Names not likely to be confused due to absence of attributes that are known to cause name confusion ^f.

No.	Name	POCA
		Score (%)
1.	Arco-Lase	61
2.	Throat-Releev	58
3.	(b) (4) ***	57
4.	Peri-Colace	57
5.	Curaler	56
6.	Cheracol D	56
7.	Vicoclear	56
8.	Veracolate	56
9.	Tracleer	55

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^f Shah, M, Merchant, L, Chan, I, and Taylor, K. Characteristics That May Help in the Identification of Potentially Confusing Proprietary Drug Names. Therapeutic Innovation & Regulatory Science, September 2016

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MADHURI R PATEL 05/11/2021 03:58:20 PM

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