

**CENTER FOR DRUG EVALUATION AND  
RESEARCH**

*APPLICATION NUMBER:*

**210864Orig1s000**

**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\*\*\***

---

<b>Date of This Review:</b>	July 10, 2020
<b>Application Type and Number:</b>	NDA 210864
<b>Product Name and Strength:</b>	Sesquient (fosphenytoin sodium) injection, 50 mg PE/mL
<b>Total Product Strength:</b>	100 mg PE/2 mL, 500 mg PE/10 mL
<b>Product Type:</b>	Single Ingredient Product
<b>Rx or OTC:</b>	Prescription (Rx)
<b>Applicant/Sponsor Name:</b>	Sedor Pharmaceuticals, LLC (Sedor)
<b>Panorama #:</b>	2020-39847214
<b>DMEPA Safety Evaluator:</b>	Chad Morris, PharmD, MPH
<b>DMEPA Team Leader:</b>	Briana Rider, PharmD, CPPS

---

## Contents

1	INTRODUCTION.....	1
1.1	Regulatory History.....	1
1.2	Product Information.....	1
2	RESULTS.....	2
2.1	Misbranding Assessment.....	2
2.2	Safety Assessment.....	2
3	CONCLUSION.....	4
3.1	Comments to Sedor Pharmaceuticals, LLC.....	4
4	REFERENCES.....	5
	APPENDICES.....	6

## 1 INTRODUCTION

This review evaluates the proposed proprietary name, Sesquient, 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. Sedor did not submit an external name study for this proposed proprietary name.

### 1.1 REGULATORY HISTORY

Sedor originally submitted the proposed proprietary name, Sesquient, on May 22, 2018 under NDA 210864, which we found conditionally acceptable on August 15, 2018.<sup>a</sup> However, NDA 210864 received a Complete Response (CR) on March 22, 2019. Sedor resubmitted the name, Sesquient, for review upon their Class 2 resubmission of NDA 210864 on June 28, 2019. We found the proposed proprietary name, Sesquient, conditionally acceptable on August 19, 2019.<sup>b</sup> However, NDA 210864 received a CR on December 20, 2019.

Thus, upon their Class 2 resubmission, Sedor resubmitted the name, Sesquient, for review on May 8, 2020.

### 1.2 PRODUCT INFORMATION

The following product information is provided in the proprietary name submission received on May 8, 2020.

- Intended Pronunciation: ses kwee'ent
- Active Ingredient: fosphenytoin sodium
- Indication of Use: Treatment of generalized tonic-clonic status epilepticus and prevention and treatment of seizures occurring during neurosurgery. It can also be substituted, short-term, for oral phenytoin and it should be used only when oral phenytoin administration is not possible.
- Route of Administration: intravenous, intramuscular
- Dosage Form: injection
- Strength: 50 mg PE/mL (100 mg PE/2 mL, 500 mg PE/10 mL)
- Dose and Frequency:

For Status Epilepticus:

Adult loading dose is 15 to 20 mg PE/kg at a rate of 100 to 150 mg PE/min

Pediatric loading dose is 15 to 20 mg PE/kg at a rate of 2 mg PE/kg/min (or 150 mg PE/min, whichever is slower)

---

<sup>a</sup> Morris, C. Proprietary Name Review for Sesquient (NDA 210864). Silver Spring (MD): FDA, CDER, OSE, DMEPA (US); 2018 AUG 15. Panorama No. 2018-23255955.

<sup>b</sup> Morris, C. Proprietary Name Review Memo for Sesquient (NDA 210864). Silver Spring (MD): FDA, CDER, OSE, DMEPA (US); 2019 AUG 19. Panorama No. 2019-32845457.

For Non-emergent Loading and Maintenance Dosing:

Adult loading dose is 10 to 20 mg PE/kg given IV or IM; initial maintenance dose is 4 to 6 mg PE/kg/day in divided doses

Pediatric loading dose is 10 to 15 mg PE/kg at a rate of 1 to 2 mg PE/kg/min; initial maintenance dose is 2 to 4 mg PE/kg every 12 hours at a rate of 1 to 2 mg PE/kg/min (no faster than 100 mg PE/min)

- How Supplied: 2 mL and 10 mL glass vials
- Storage: Room temperature
- Reference Listed Drug/Reference Product: Cerebyx, NDA 020540

## **2 RESULTS**

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

### **2.1 MISBRANDING ASSESSMENT**

The Office of Prescription Drug Promotion (OPDP) determined that Sesquient would not misbrand the proposed product. The Division of Medication Error Prevention and Analysis (DMEPA) and the Division of Neurology 2 (DN 2) concurred with the findings of OPDP's assessment for Sesquient.

### **2.2 SAFETY ASSESSMENT**

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

#### ***2.2.1 United States Adopted Names (USAN) Search***

There is no USAN stem present in the proposed proprietary name<sup>c</sup>.

#### ***2.2.2 Components of the Proposed Proprietary Name***

Sedor did not provide a derivation or intended meaning for the proposed proprietary name, Sesquient, 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***

In response to the OSE, June 5, 2020 e-mail, the Division of Neurology 2 (DN 2) did not forward any comments or concerns relating to Sesquient at the initial phase of the review.

---

<sup>c</sup> USAN stem search conducted on May 13, 2020.

#### 2.2.4 FDA Name Simulation Studies

Eighty-three practitioners participated in DMEPA's prescription studies for Sesquient. The 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<sup>d</sup> identified 103 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 none of the product characteristics have changed, and we agree with the findings from our previous review for the names evaluated previously. Therefore, we identified 3 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. These name pairs are organized as highly similar, moderately similar or low similarity for further evaluation.

<b>Table 1. Names Retrieved for Review Organized by Name Pair Similarity</b>	
<b>Similarity Category</b>	<b>Number of Names</b>
Highly similar name pair: combined match percentage score $\geq 70\%$	0
Moderately similar name pair: combined match percentage score $\geq 55\%$ to $\leq 69\%$	3
Low similarity name pair: combined match percentage score $\leq 54\%$	0

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

Our analysis of the 3 names contained in Table 1 determined none of the names will pose a risk for confusion with Sesquient as described in Appendices C through H.

#### 2.2.8 Communication of DMEPA's Analysis at Midpoint of Review

DMEPA communicated our findings to the Division of Neurology 2 (DN 2) via e-mail on June 22, 2020. At that time, we also requested additional information or concerns that could inform

---

<sup>d</sup> POCA search conducted on May 13, 2020 in version 4.3.

our review. Per e-mail correspondence from the Division of Neurology 2 (DN 2) on July 6, 2020, they stated no additional concerns with the proposed proprietary name, Sesquient.

### **3 CONCLUSION**

The proposed proprietary name, Sesquient, is acceptable.

If you have any questions or need clarifications, please contact Casmir Ogbonna, OSE project manager, at 301-796-5272.

#### **3.1 COMMENTS TO SEDOR PHARMACEUTICALS, LLC**

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

If any of the proposed product characteristics as stated in your submission, received on May 8, 2020, are altered prior to approval of the marketing application, the name must be resubmitted for review.

## 4 REFERENCES

### 1. *USAN Stems* (<https://www.ama-assn.org/about/united-states-adopted-names-approved-stems>)

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](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. <sup>e</sup>

---

<sup>e</sup> National Coordinating Council for Medication Error Reporting and Prevention.  
<http://www.nccmerp.org/aboutMedErrors.html>. Last accessed 10/11/2007.

**\*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.
<b>Y/N</b>	<b>Is the proposed name obviously similar in spelling and pronunciation to other names?</b>
	Proprietary names should not be similar in spelling or pronunciation to proprietary names, established names, or ingredients of other products.
<b>Y/N</b>	<b>Are there inert or inactive ingredients referenced in the proprietary name?</b>
	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)).
<b>Y/N</b>	<b>Does the proprietary name include combinations of active ingredients?</b>
	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)).
<b>Y/N</b>	<b>Is there a United States Adopted Name (USAN) stem in the proprietary name?</b>
	Proprietary names should not incorporate a USAN stem in the position that USAN designates for the stem.
<b>Y/N</b>	<b>Is this proprietary name used for another product that does not share at least one common active ingredient?</b>
	Drug products that do not contain at least one common active ingredient should not use the same (root) proprietary name.
<b>Y/N</b>	<b>Is this a proprietary name of a discontinued product?</b>
	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  $\leq 54\%$ .

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  $\geq 70$  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<sup>f</sup>. 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 a low similarity name to the moderate similarity category and review according to the moderately similar name pair checklist.

---

<sup>f</sup> Shah, M, Merchant, L, Characteristics That May Help in the Identification of Potentially Confusing Proprietary Drug Names. Therapeutic Innovation & Regulatory Science, September 2016

- 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  $\geq 70\%$ ).**

<u>Orthographic Checklist</u>		<u>Phonetic Checklist</u>	
<b>Y/N</b>	Do the names begin with different first letters? <i>Note that even when names begin with different first letters, certain letters may be confused with each other when scripted.</i>	<b>Y/N</b>	Do the names have different number of syllables?
<b>Y/N</b>	Are the lengths of the names dissimilar* when scripted? <i>*FDA considers the length of names different if the names differ by two or more letters.</i>	<b>Y/N</b>	Do the names have different syllabic stresses?
<b>Y/N</b>	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?	<b>Y/N</b>	Do the syllables have different phonologic processes, such as vowel reduction, assimilation, or deletion?
<b>Y/N</b>	Is there different number or placement of cross-stroke or dotted letters present in the names?	<b>Y/N</b>	Across a range of dialects, are the names consistently pronounced differently?
<b>Y/N</b>	Do the infixes of the name appear dissimilar when scripted?		
<b>Y/N</b>	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	<p>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.</p> <p>For single strength products, also consider circumstances where the strength may not be expressed.</p> <p>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.</p> <p>To determine whether the strengths or doses are similar to your proposed product, consider the following list of factors that may increase confusion:</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Trailing or deleting zeros: 10 mg is similar in appearance to 100 mg which may potentiate confusion between a name pair with moderate similarity.</li> <li>• Similar sounding doses: 15 mg is similar in sound to 50 mg</li> </ul>
Step 2	<p>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 <b>with</b> overlapping or similar strengths or doses.</p>

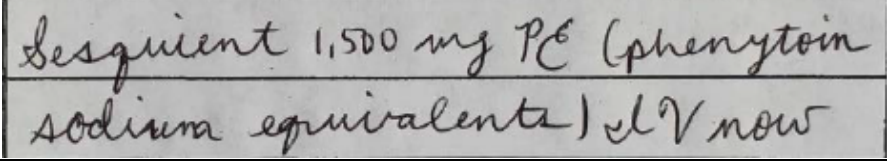
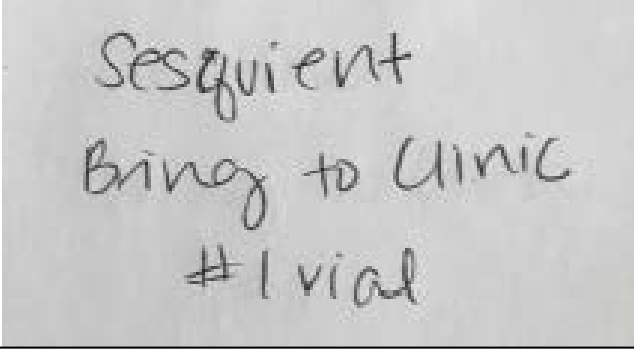
	<p>Orthographic Checklist (Y/N to each question)</p> <ul style="list-style-type: none"> <li>• Do the names begin with different first letters? Note that even when names begin with different first letters, certain letters may be confused with each other when scripted.</li> <li>• Are the lengths of the names dissimilar* when scripted? *FDA considers the length of names different if the names differ by two or more letters.</li> <li>• 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?</li> <li>• Is there different number or placement of cross-stroke or dotted letters present in the names?</li> <li>• Do the infixes of the name appear dissimilar when scripted?</li> <li>• Do the suffixes of the names appear dissimilar when scripted?</li> </ul>	<p>Phonetic Checklist (Y/N to each question)</p> <ul style="list-style-type: none"> <li>• Do the names have different number of syllables?</li> <li>• Do the names have different syllabic stresses?</li> <li>• Do the syllables have different phonologic processes, such as vowel reduction, assimilation, or deletion?</li> <li>• Across a range of dialects, are the names consistently pronounced differently?</li> </ul>
--	--	--

**Table 5: Low Similarity Name Pair Checklist (i.e., combined score is  $\leq 54\%$ ).**

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. Sesquient Study (Conducted on May 21, 2020)**

Handwritten Medication Order/Prescription	Verbal Prescription
<p>Medication Order:</p> 	<p>Sesquient Bring to clinic #1</p>
<p>Outpatient Prescription:</p> 	
<p><b>CPOE Study Sample (displayed as sans-serif, 12-point, bold font)</b></p>	
<p>Sesquient</p>	



**FDA Prescription Simulation Responses (Aggregate Report)**

**Study Name: Sesquient**

As of Date 6/5/2020

208 People Received Study  
83 People Responded

Study Name: Sesquient

	<b>Total</b>	<b>28</b>	<b>18</b>	<b>13</b>	<b>24</b>	
<b>INTERPRETATION</b>	<b>OUTPATIENT</b>	<b>CPOE</b>	<b>VOICE</b>	<b>INPATIENT</b>	<b>TOTAL</b>	
CEFQUIEN	0	0	1	0	1	
CEFQUIENT	0	0	2	0	2	
SEQUIAS	0	0	1	0	1	
SEQUIENT	2	0	0	0	2	
SESQUEANT	0	0	1	0	1	
SESQUIANT	0	0	3	0	3	
SESQUIENT	25	18	3	24	70	
SESQUINT	1	0	0	0	1	
SUSQUEINT	0	0	1	0	1	
SUSQUIENT	0	0	1	0	1	

**Appendix C:** Highly Similar Names (e.g., combined POCA score is  $\geq 70\%$ )

No.	<b>Proposed name:</b> Sesquient <b>Established name:</b> fosphenytoin sodium <b>Dosage form:</b> injection <b>Strength(s):</b> 50 mg PE/mL <b>Usual Dose:</b> Loading dose: 10 mg PE/kg to 20 mg PE/kg one-time; Maintenance dose: 2 mg PE/kg to 6 mg PE/kg every 12 hours to 24 hours	POCA Score (%)	<b>Orthographic and/or phonetic differences in the names sufficient to prevent confusion</b>  <b>Other prevention of failure mode expected to minimize the risk of confusion between these two names.</b>
N/A			

**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

No.	Name	POCA Score (%)
N/A		

**Appendix E:** Moderately Similar Names (e.g., combined POCA score is  $\geq 55\%$  to  $\leq 69\%$ ) with overlap or numerical similarity in Strength and/or Dose

No.	<b>Proposed name:</b> Sesquient <b>Established name:</b> fosphenytoin sodium <b>Dosage form:</b> injection <b>Strength(s):</b> 50 mg PE/mL <b>Usual Dose:</b> Loading dose: 10 mg PE/kg to 20 mg PE/kg one-time; Maintenance dose: 2 mg PE/kg to 6 mg PE/kg every 12 hours to 24 hours	POCA Score (%)	<b>Prevention of Failure Mode</b>  <b>In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names</b>
1.	(b) (4) ***	59	This name pair has sufficient orthographic and phonetic differences.
2.	(b) (4) ***	56	This name pair has sufficient orthographic and phonetic differences.

**Appendix F:** Low Similarity Names (e.g., combined POCA score is  $\leq 54\%$ )

No.	Name	POCA Score (%)
N/A		

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

No.	Name	POCA Score (%)	Failure preventions
3.	(b) (4) ***	56	This is an alternate proposed proprietary name for (b) (4)

**Appendix H:** Names not likely to be confused due to absence of attributes that are known to cause name confusion<sup>g</sup>.

No.	Name	POCA Score (%)
N/A		

---

<sup>g</sup> 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

-----  
**This is a representation of an electronic record that was signed electronically. Following this are manifestations of any and all electronic signatures for this electronic record.**  
-----

/s/  
-----

JOHN C MORRIS  
07/10/2020 09:02:47 AM

BRIANA B RIDER  
07/10/2020 08:16:46 PM

---

**PROPRIETARY NAME MEMORANDUM**

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:** August 19, 2019  
**Application Type and Number:** NDA 210864  
**Product Name and Strength:** Sesquient (fosphenytoin sodium) injection, 50 mg PE/mL  
**Total Product Strength:** 100 mg PE/2 mL, 500 mg PE/10 mL  
**Product Type:** Single Ingredient Product  
**Rx or OTC:** Prescription (Rx)  
**Applicant/Sponsor Name:** Sedor Pharmaceuticals, LLC (Sedor)  
**Panorama #:** 2019-32845457  
**DMEPA Safety Evaluator:** Chad Morris, PharmD, MPH  
**DMEPA Team Leader (Acting):** Briana Rider, PharmD

---

## **1 INTRODUCTION**

This memorandum is to reassess the proposed proprietary name, Sesquient, which was found conditionally acceptable under NDA 210864 on August 15, 2018.<sup>a</sup> NDA 210864 received a Complete Response on March 22, 2019. Sedor resubmitted the name, Sesquient, for review upon their resubmission of NDA 210864 on June 28, 2019. We note that all product characteristics remain the same.

## **2 METHODS AND DISCUSSION**

### **2.1 MISBRANDING ASSESSMENT**

The Office of Prescription Drug Promotion (OPDP) determined that Sesquient would not misbrand the proposed product. The Division of Medication Error Prevention and Analysis (DMEPA) and the Division of Neurology Products (DNP) concurred with the findings of OPDP's assessment for Sesquient.

### **2.2 SAFETY ASSESSMENT**

For re-assessment of the proposed proprietary name, we 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 proposed proprietary name. Additionally, we searched the United States Adopted Name (USAN) stem list to determine if the proposed proprietary name contains any USAN stems as of the last USAN updates. The July 25, 2019 search of USAN stems did not find any USAN stems in the proposed proprietary name, Sesquient.

### **2.3 COMMUNICATION OF DMEPA'S ANALYSIS AT MIDPOINT OF REVIEW**

We communicated our findings to the Division of Neurology Products (DNP) via e-mail on August 15, 2019. At that time, we also requested additional information or concerns that could inform our review. Per e-mail correspondence from the Division of Neurology Products (DNP) on August 15, 2019, they stated no additional concerns with the proposed proprietary name, Sesquient.

## **3 CONCLUSION**

Our re-assessment did not identify any names that represent a potential source of drug name confusion. Therefore, we maintain that the proposed proprietary name, Sesquient, is acceptable.

If you have any questions or need clarifications, please contact Monique Killen, OSE project manager, at 240-402-1985.

### **3.1 COMMENTS TO SEDOR PHARMACEUTICALS, LLC**

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

---

<sup>a</sup> Morris, C. Proprietary Name Review for Sesquient (Captisol®-enabled fosphenytoin sodium) NDA 210864. Silver Spring (MD): FDA, CDER, OSE, DMEPA (US); 2018 AUG 15. Panorama No.: 2018-23255955.

If any of the proposed product characteristics as stated in your submission, received on June 28, 2019, are altered prior to approval of the marketing application, the name must be resubmitted for review.

#### **4 REFERENCE**

- 1. USAN Stems** (<https://www.ama-assn.org/about/united-states-adopted-names-approved-stems>)

USAN Stems List contains all the recognized USAN stems.



-----  
**This is a representation of an electronic record that was signed electronically. Following this are manifestations of any and all electronic signatures for this electronic record.**  
-----

/s/  
-----

JOHN C MORRIS  
08/19/2019 03:40:39 PM

BRIANA B RIDER  
08/19/2019 04:00:49 PM

---

**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\*\*\***

---

<b>Date of This Review:</b>	August 15, 2018
<b>Application Type and Number:</b>	NDA 210864
<b>Product Name and Strength:</b>	Sesquient (Captisol®-enabled fosphenytoin sodium) injection 50 mg PE/mL
<b>Total Product Strength:</b>	100 mg PE/2 mL, 500 mg PE/10 mL
<b>Product Type:</b>	Single ingredient product
<b>Rx or OTC:</b>	Rx
<b>Applicant/Sponsor Name:</b>	Sedor Pharmaceuticals, LLC
<b>Panorama #:</b>	2018-23255955
<b>DMEPA Safety Evaluator:</b>	Chad Morris, PharmD, MPH
<b>DMEPA Team Leader:</b>	Lolita White, PharmD

---

## Contents

1	INTRODUCTION .....	1
1.1	Regulatory History .....	1
1.2	Product Information .....	1
2	RESULTS .....	1
2.1	Misbranding Assessment .....	1
2.2	Safety Assessment.....	2
3	CONCLUSIONS .....	5
3.1	Comments to the Applicant.....	5
4	REFERENCES .....	7
	APPENDICES .....	8

## 1 INTRODUCTION

This review evaluates the proposed proprietary name, Sesquient, from a safety and misbranding perspective. The sources and methods used to evaluate the proposed name are outlined in the reference section and Appendix A respectively. The Applicant submitted an external name study, conducted by the (b) (4) for this proposed proprietary name.

### 1.1 PRODUCT INFORMATION

The following product information is provided in the proprietary name submission received on May 22, 2018.

- Intended Pronunciation: ses kwee' ent
- Active Ingredient: Captisol®-enabled fosphenytoin sodium
- Indication of Use: Treatment of general tonic-clonic status epilepticus and prevention of seizures occurring during neurosurgery. It can also be substituted, short-term, for oral phenytoin and it should be used only when oral phenytoin administration is not possible.
- Route of Administration: Intravenous; Intramuscular
- Dosage Form: injection
- Strength: 50 mg PE/mL
- Dose and Frequency: Loading dose: 15 mg PE/kg to 20 mg PE/kg one-time; Maintenance dose: 4 mg PE/kg to 6 mg PE/kg every 12 hours to 24 hours
- How Supplied: 100 mg PE/2 mL vial, 500 mg PE/10 mL vial
- Storage: Room temperature
- Reference Listed Drug/Reference Product: Cerebyx, NDA 020540

## 2 RESULTS

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

### 2.1 MISBRANDING ASSESSMENT

The Office of Prescription Drug Promotion (OPDP) determined that the proposed name would not misbrand the proposed product. The Division of Medication Error Prevention and Analysis (DMEPA) and the Division of Neurology Products (DNP) concurred with the findings of OPDP's assessment of the proposed name.

### 2.2 SAFETY ASSESSMENT

The following aspects were considered in the safety evaluation of the name.

### **2.2.1 United States Adopted Names (USAN) Search**

There is no USAN stem present in the proprietary name<sup>a</sup>.

### **2.2.2 Components of the Proposed Proprietary Name**

The Applicant did not provide a derivation or intended meaning for the proposed name, Sesquient, 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**

In response to the OSE, June 8, 2018 e-mail, DNP did not forward any comments or concerns relating to the proposed proprietary name at the initial phase of the review.

### **2.2.4 FDA Name Simulation Studies**

Fifty-three practitioners participated in DMEPA's prescription studies. The 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 verbal and written prescription studies.

### **2.2.5 Phonetic and Orthographic Computer Analysis (POCA) Search Results**

Our POCA search<sup>b</sup> identified 99 names with a combined phonetic and orthographic score of  $\geq 55\%$  or an individual phonetic or orthographic score  $\geq 70\%$ . 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 the <sup>(b) (4)</sup> external study. These name pairs are organized as highly similar, moderately similar or low similarity for further evaluation.

<b>Table 1. Similarity Category</b>	<b>Number of Names</b>
Highly similar name pair: combined match percentage score $\geq 70\%$	2
Moderately similar name pair: combined match percentage score $\geq 55\%$ to $\leq 69\%$	97
Low similarity name pair: combined match percentage score $\leq 54\%$	7

<sup>a</sup> USAN stem search conducted on June 19, 2018.

<sup>b</sup> POCA search conducted on June 7, 2018 in version 4.2.

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

Our analysis of the 106 names contained in Table 1 determined none of the names will pose a risk for confusion as described in Appendices C through H.

### ***2.2.8 Communication of DMEPA's Analysis at Midpoint of Review***

DMEPA communicated our findings to DNP via e-mail on August 6, 2018. At that time, we also requested additional information or concerns that could inform our review. Per e-mail correspondence from DNP on August 15, 2018, they stated no additional concerns with the proposed proprietary name, Sesquient.

## **3 CONCLUSION**

The proposed proprietary name is acceptable.

If you have any questions or need clarifications, please contact Monique Killen, OSE project manager, at 240-402-1985.

### **3.1 COMMENTS TO THE APPLICANT**

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

If any of the proposed product characteristics as stated in your submission, received on May 22, 2018, are altered prior to approval of the marketing application, the name must be resubmitted for review.

## 4 REFERENCES

1. **USAN Stems** (<http://www.ama-assn.org/ama/pub/physician-resources/medical-science/united-states-adopted-names-council/naming-guidelines/approved-stems.page>)

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](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. <sup>c</sup>

---

<sup>c</sup> National Coordinating Council for Medication Error Reporting and Prevention.  
<http://www.nccmerp.org/aboutMedErrors.html>. Last accessed 10/11/2007.



**\*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.
<b>Y/N</b>	<b>Is the proposed name obviously similar in spelling and pronunciation to other names?</b>
	Proprietary names should not be similar in spelling or pronunciation to proprietary names, established names, or ingredients of other products.
<b>Y/N</b>	<b>Are there inert or inactive ingredients referenced in the proprietary name?</b>
	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)).
<b>Y/N</b>	<b>Does the proprietary name include combinations of active ingredients?</b>
	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)).
<b>Y/N</b>	<b>Is there a United States Adopted Name (USAN) stem in the proprietary name?</b>
	Proprietary names should not incorporate a USAN stem in the position that USAN designates for the stem.
<b>Y/N</b>	<b>Is this proprietary name used for another product that does not share at least one common active ingredient?</b>
	Drug products that do not contain at least one common active ingredient should not use the same (root) proprietary name.
<b>Y/N</b>	<b>Is this a proprietary name of a discontinued product?</b>
	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  $\leq 54\%$ .

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  $\geq 70$  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<sup>d</sup>. 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 a low similarity name to the moderate similarity category and review according to the moderately similar name pair checklist.

---

<sup>d</sup> Shah, M, Merchant, L, Characteristics That May Help in the Identification of Potentially Confusing Proprietary Drug Names. Therapeutic Innovation & Regulatory Science, September 2016

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

Three 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 or verbal pronunciation of the drug name. 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 orthographic or phonetic vulnerability of the proposed name to be misinterpreted by healthcare practitioners.

In order to evaluate the potential for misinterpretation of the proposed proprietary name in handwriting and verbal communication of the name, inpatient medication orders and/or outpatient prescriptions are written, each consisting of a combination of marketed and unapproved drug products, including the proposed name. These orders are optically scanned and one prescription is delivered to a random sample of participating health professionals via e-mail. In addition, a verbal prescription is recorded on voice mail. The voice mail messages are then sent to a random sample of the participating health professionals for their interpretations and review. After receiving either the written or verbal prescription orders, the participants record their interpretations of the orders which are recorded electronically.

- 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  $\geq 70\%$ ).**

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

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

<p>Step 1</p>	<p>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.</p> <p>For single strength products, also consider circumstances where the strength may not be expressed.</p> <p>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.</p> <p>To determine whether the strengths or doses are similar to your proposed product, consider the following list of factors that may increase confusion:</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Trailing or deleting zeros: 10 mg is similar in appearance to 100 mg which may potentiate confusion between a name pair with moderate similarity.</li> <li>• Similar sounding doses: 15 mg is similar in sound to 50 mg</li> </ul>
<p>Step 2</p>	<p>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 <b>with</b> overlapping or similar strengths or doses.</p>

	<p>Orthographic Checklist (Y/N to each question)</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Are the lengths of the names dissimilar* when scripted? *FDA considers the length of names different if the names differ by two or more letters.</li> <li>• 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?</li> <li>• Is there different number or placement of cross-stroke or dotted letters present in the names?</li> <li>• Do the infixes of the name appear dissimilar when scripted?</li> <li>• Do the suffixes of the names appear dissimilar when scripted?</li> </ul>	<p>Phonetic Checklist (Y/N to each question)</p> <ul style="list-style-type: none"> <li>• Do the names have different number of syllables?</li> <li>• Do the names have different syllabic stresses?</li> <li>• Do the syllables have different phonologic processes, such as vowel reduction, assimilation, or deletion?</li> <li>• Across a range of dialects, are the names consistently pronounced differently?</li> </ul>
--	--	--

**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. Sesquient Study (Conducted on June 1, 2018)**

Handwritten Medication Order/Prescription	Verbal Prescription
<p>Medication Order:</p> <hr/> <p><i>Sesquient 1500mg PE (phenytoin sodium equivalents) (V now)</i></p> <hr/>	<p>Sesquient Bring to clinic #1 vial</p>
<p>Outpatient Prescription:</p> <p><i>Sesquient Bring to clinic #1 vial</i></p>	

**FDA Prescription Simulation Responses (Aggregate 1 Rx Studies Report)**

**Study Name: Sesquient**

As of Date 6/18/2018

307 People Received Study  
53 People Responded

Study Name: Sesquient

<b>Total</b>	<b>17</b>	<b>18</b>	<b>18</b>	<b>53</b>
<b>INTERPRETATION</b>	<b>OUTPATIENT</b>	<b>VOICE</b>	<b>INPATIENT</b>	<b>TOTAL</b>
SESQUEANT	0	1	0	1
SESQUENT	0	3	0	3
SESQUIANT	0	5	0	5
SESQUIENT	17	6	18	41
SESQUINT	0	1	0	1
SESSQUIN	0	1	0	1
SEXQUENT	0	1	0	1



**Appendix C:** Highly Similar Names (e.g., combined POCA score is  $\geq 70\%$ )

No.	Proposed name: Sesquient Established name: Captisol-enabled fosphenytoin sodium Dosage form: injection Strength(s): 50 mg PE/mL Usual Dose: Loading dose: 15 mg PE/kg to 20 mg PE/kg Maintenance dose: 4 mg PE/kg to 6 mg PE/kg every 12 hours to 24 hours.	POCA Score (%)	Orthographic and/or phonetic differences in the names sufficient to prevent confusion  Other prevention of failure mode expected to minimize the risk of confusion between these two names.
1.	Sesquient***	100	This is the name under review.
2.	Res-Q-Dent	70	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.

**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

No.	Name	POCA Score (%)
3.	Desquam	56
4.	Desquam-E	64
5.	Desquam-X	60
6.	Desquam-X 10	60
7.	Desquam-X 5	60
8.	K-Vescent	56
9.	Seasonique	52
10.	Selsun	53
11.	Striant	56
12.	Systane	56
13.	Zenchent	56

**Appendix E:** Moderately Similar Names (e.g., combined POCA score is  $\geq 55\%$  to  $\leq 69\%$ ) with overlap or numerical similarity in Strength and/or Dose

No.	<b>Proposed name: Sesquient</b> <b>Established name: Captisol-enabled fosphenytoin sodium</b> <b>Dosage form: injection</b> <b>Strength(s): 50 mg PE/mL</b> <b>Usual Dose:</b> <b>Loading dose: 15 mg PE/kg to 20 mg PE/kg</b> <b>Maintenance dose: 4 mg PE/kg to 6 mg PE/kg every 12 hours to 24 hours.</b>	<b>POCA Score (%)</b>	<b>Prevention of Failure Mode</b>  <b>In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names</b>
14.	Sutent	64	This name pair has sufficient orthographic and phonetic differences.
15.	Sinequan	62	This name pair has sufficient orthographic and phonetic differences.
16.	Baciguent	60	This name pair has sufficient orthographic and phonetic differences.
17.	Safe Tussin 30	60	This name pair has sufficient orthographic and phonetic differences.
18.	Spasquid	60	This name pair has sufficient orthographic and phonetic differences.
19.	Dupixent	58	This name pair has sufficient orthographic and phonetic differences.
20.	Safe Tussin Pm	58	This name pair has sufficient orthographic and phonetic differences.
21.	Safetussin Pm	58	This name pair has sufficient orthographic and phonetic differences.
22.	Sani-Clens	58	This name pair has sufficient orthographic and phonetic differences.
23.	(b) (4) ***	58	This name pair has sufficient orthographic and phonetic differences.
24.	Serevent	58	This name pair has sufficient orthographic and phonetic differences.
25.	Sufenta	58	This name pair has sufficient orthographic and phonetic differences.
26.	Cin-quin	56	This name pair has sufficient orthographic and phonetic differences.
27.	Effient	56	This name pair has sufficient orthographic and phonetic differences.
28.	Equilet	56	This name pair has sufficient orthographic and phonetic differences.
29.	Melquin Hp	56	This name pair has sufficient orthographic and phonetic differences.

No.	Proposed name: Sesquient Established name: Captisol-enabled fosphenytoin sodium Dosage form: injection Strength(s): 50 mg PE/mL Usual Dose: Loading dose: 15 mg PE/kg to 20 mg PE/kg Maintenance dose: 4 mg PE/kg to 6 mg PE/kg every 12 hours to 24 hours.	POCA Score (%)	Prevention of Failure Mode  In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
30.	Safetussin Dm	56	This name pair has sufficient orthographic and phonetic differences.
31.	Votrient	56	This name pair has sufficient orthographic and phonetic differences.
32.	Secretin	55	This name pair has sufficient orthographic and phonetic differences.
33.	Suspen	55	This name pair has sufficient orthographic and phonetic differences.
34.	(b) (4)***	55	This name pair has sufficient orthographic and phonetic differences.

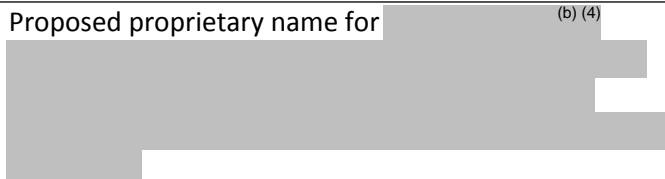
**Appendix F:** Low Similarity Names (e.g., combined POCA score is  $\leq 54\%$ )

No.	Name	POCA Score (%)
35.	AMBIEN	33
36.	ELIQUIS	48
37.	SAQUINAVIR	50
38.	SELDANE	46
39.	SEROQUEL	48
40.	SYMBICORT	36
41.	ZOCOR	10

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

No.	Name	POCA Score (%)	Failure preventions
42.	Centussin	57	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
43.	Decoquinat	57	Veterinary product.

No.	Name	POCA Score (%)	Failure preventions
44.	(b) (4) ***	49	(b) (4)
45.	Equistrength	56	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
46.	Ethaquin	57	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
47.	Flosequinan	60	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
48.	Mastic Dent	57	Product is not a drug. It is a mouthwash.
49.	Myciguent	56	Brand discontinued with no generic equivalents available.
50.	Nystavescent	58	International product formerly marketed in United Kingdom.
51.	Pepsodent	60	This product is not a drug; it is a toothpaste brand.
52.	Pse Sinus	59	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
53.	Pseudovent	61	Brand discontinued with no generic equivalents available.
54.	quinate	52	International product marketed in Australia.
55.	quinine Arsenite	44	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
56.	quintex Hs	46	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
57.	Respivent	67	Brand discontinued with no generic equivalents available.
58.	Respivent-D	60	Brand discontinued with no generic equivalents available.
59.	Safetussin Cd	56	Brand discontinued with no generic equivalents available.
60.	Salbuvent	61	International product formerly marketed in Ireland, New Zealand, Finland, Denmark, Norway, UK.
61.	Securon Sr	56	International product marketed in the UK.
62.	Seequin	67	International product marketed in Canada.
63.	Selenite	54	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.

No.	Name	POCA Score (%)	Failure preventions
64.	Semilente	59	Brand discontinued with no generic equivalents available. NDA 018382 withdrawn, FR effective 08/05/1996. NDA 017996 withdrawn, FR effective 9/25/1997.
65.	Sensicaine	55	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
66.	Sensi-Cream	56	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
67.	Septi-Soft	56	Brand discontinued with no generic equivalents available. NDA 017460 withdrawn, FR effective 09/19/1996.
68.	Septtrin	56	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
69.	Sesquicarbonate	57	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
70.	Shur-Clens	55	This product is not a drug; it is a wound care agent.
71.	Sinuvent	64	Brand discontinued with no generic equivalents available.
72.	Succinate	58	This is not a drug; it is an ester salt.
73.	Superdent	56	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
74.	Surgident	62	International product formerly marketed in Switzerland.
75.	Sustain	59	Product characteristics not found in external databases.
76.	(b) (4) ***	59	Proposed proprietary name for (b) (4) 
77.	Tequin	62	Product withdrawn from the market due to safety concerns.
78.	Tussinate	56	Brand discontinued with no generic equivalents available.
79.	Vetsulin	60	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
80.	Zeniquin	58	Veterinary product.

**Appendix H:** Names not likely to be confused due to absence of attributes that are known to cause name confusion<sup>e</sup>.

No.	Name	POCA Score (%)
81.	Caseinate	56
82.	Caseins	56
83.	Cefsulodin	55
84.	Cenestin	56
85.	Cysteamine	55
86.	Cysteine	58
87.	Cysteine, DI-	58
88.	Cystine	56
89.	Destolit	56
90.	Esculin	59
91.	(b) (4) ***	56
92.	Freshmint	58
93.	Gestrin	56
94.	Histussin D	60
95.	Netupitant	56
96.	Physiotens	56
97.	(b) (4) ***	57
98.	Testolin	60
99.	T-Tussin Pe	55
100.	Tussend	56
101.	Tussiden C	60
102.	Tussiden Dm	57
103.	Tussin Pe	56
104.	Tussiphen Dm	55
105.	Yeast-X Int	55
106.	Zestoretic	55

---

<sup>e</sup> 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

-----  
**This is a representation of an electronic record that was signed electronically. Following this are manifestations of any and all electronic signatures for this electronic record.**  
-----

/s/  
-----

JOHN C MORRIS  
08/15/2018

LOLITA G WHITE  
08/15/2018