

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

761156Orig1s000

PROPRIETARY NAME REVIEW(S)

MEMORANDUM

SUFFIX REVIEW FOR NONPROPRIETARY NAME

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:	July 2, 2020
Responsible OND Division:	Division of General Endocrinology (DGE)
Application Type and Number:	BLA 761156
Product Name and Strength:	Sogroya (somapacitan-beco) injection 10 mg/1.5 mL (6.7 mg/mL)
Product Type:	Combination Product (Biologic-Device)
Applicant/Sponsor Name:	Novo Nordisk Inc. (Novo)
FDA Received Date:	August 28, 2019
OSE RCM #:	2019-1826
DMEPA Primary Reviewer:	Carlos M Mena-Grillasca, BS Pharm
DMEPA Deputy Director:	Danielle Harris, PharmD

1 PURPOSE OF MEMO

This memorandum summarizes our evaluation of the four-letter suffixes proposed by Novo for inclusion in the nonproprietary name and communicates our recommendation for the nonproprietary name for BLA 761156.

2 ASSESSMENT OF THE NONPROPRIETARY NAME

On August 28, 2019, Novo submitted a list of 10 suffixes, in their order of preference, to be used in the nonproprietary name of their product^a. Table 1 presents a list of suffixes submitted by Novo:

Table 1. Suffixes submitted by Novo***			
1.		(b) (4)	
2.			
3.			
4.			
5.	beco		
6.		(b) (4)	
7.			
8.			
9.			
10.			

We reviewed Novo's proposed suffixes in order of preference listed by Novo, using the principles described in the applicable guidance.^b

^a Proposed Suffix for somapacitan BLA 761165. Plainsboro (NJ): Novo Nordisk Inc.; 2019 Aug 28. Available from: <\\cdsesub1\evsprod\bla761156\0001\m1\us\proprietary-name-suffix.pdf>

^b See Section VI which describes that any suffixes should be devoid of meaning in Guidance for Industry: Nonproprietary Naming of Biological Products. 2017. Available from: <http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM459987.pdf>

2.1 somapacitan- (b) (4)

(b) (4)

2.1 somapacitan- (b) (4)

(b) (4)

2.2 somapacitan- (b) (4)

(b) (4)

^a See Section VI which describes that any suffixes should be devoid of meaning in Guidance for Industry: Nonproprietary Naming of Biological Products. 2017. Available from: <http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM459987.pdf>

(b) (4)



2.3 somapacitan-

(b) (4)



(b) (4)



2.4 somapacitan-beco

Novo's fourth proposed suffix, -beco, is comprised of four distinct letters.

We determined that the proposed suffix -beco, is not too similar to any other products' suffix designation, does not look similar to the names of other currently marketed products, that the suffix is devoid of meaning, does not include any abbreviations that could be misinterpreted, and does not make any misrepresentations with respect to safety or efficacy of this product.

3 COMMUNICATION OF DMEPA'S ANALYSIS

These findings were also shared with OPDP, OBBT, OBP, OPPQ, and ORP on June 16, 2020. The workgroup did not object or had any concerns with our findings. DMEPA also communicated our findings to the Division of General Endocrinology (DGE) via e-mail on July 1, 2020.

4 CONCLUSION

We find Novo's proposed suffix -beco acceptable and recommend the nonproprietary name be revised throughout the draft labels and labeling to somapacitan-beco. DMEPA will communicate our findings to the Applicant via letter.

4.1 Recommendations for Novo Nordisk Inc.

We find the nonproprietary name, somapacitan-beco, conditionally acceptable for your proposed product. Should your 351(a) BLA be approved during this review cycle, somapacitan-beco will be the proper name designated in the license. You should revise your proposed labels and labeling accordingly and submit the revised labels and labeling to your BLA for our review. However, please be advised that if your application receives a complete response, the acceptability of your proposed suffix will be re-evaluated when you respond to the deficiencies. If we find your suffix unacceptable upon our re-evaluation, we would inform you of our finding.

We also note that the first 4 proposed suffixes are unacceptable (b) (4) :

(b) (4)

^a See Section VI which describes that any suffixes should be devoid of meaning in Guidance for Industry: Nonproprietary Naming of Biological Products. 2017. Available from: <http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM459987.pdf>

^a See Section VI which describes that any suffixes should be devoid of meaning in Guidance for Industry: Nonproprietary Naming of Biological Products. 2017. Available from: <http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM459987.pdf>

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/

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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)

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Date of This Review:	September 19, 2019
Application Type and Number:	IND 116327 and BLA 761156
Product Name and Strength:	Sogroya (somapacitan-xxxx ^a) injection (b) (4) 10 mg/1.5 mL, (b) (4)
Product Type:	Combination Product (Drug-Device)
Rx or OTC:	Prescription (Rx)
Applicant/Sponsor Name:	Novo Nordisk
Panorama #:	2019-30375001 and 2019-34067372
DMEPA Safety Evaluator:	Melina Fanari, R.Ph.
DMEPA Team Leader:	Sevan Kolejian, PharmD, MBA

^a Sogroya is a biologic. The proper name consisting of a core name (*somapacitan*) and an FDA-designated suffix is not available at this time. Since the proper name for Sogroya has not yet been determined, “somapacitan-xxxx” is used throughout this review as the proper name for this product.

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1 INTRODUCTION

This review evaluates the proposed proprietary name, Sogroya, 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. Novo Nordisk submitted an external name study, conducted by (b) (4), for this proposed proprietary name.

1.1 REGULATORY HISTORY

Novo Nordisk previously submitted the proposed proprietary name, (b) (4)*** on August 6, 2018. However, the Office of Prescription Drug Promotion (OPDP) did not recommend the use of the proposed proprietary name, (b) (4)***, (b) (4) therefore, DMEPA found the name, (b) (4)*** unacceptable on December 27, 2018.^b

Thus, Novo Nordisk submitted the name, Sogroya, for review to IND 116327 on March 28, 2019 and to BLA 761156 on August 28, 2019.

1.2 PRODUCT INFORMATION

The following product information is provided in the proprietary name submission received on August 28, 2019. In the proprietary name request for BLA 761156, Novo Nordisk stated that

(b) (4) they only intend to pursue the 10 mg/1.5 mL presentation for adult use at this time (b) (4) (b) (4). (see section 2.2.7). Thus, our evaluation considered the scenario where only a single strength of 10 mg/1.5 mL is (b) (4) marketed; (b) (4)

- Intended Pronunciation: suh-GROY-uh
- Active Ingredient: somapacitan- xxxx
- Indication of Use:
 - Adult: Replacement of endogenous GH in adults with growth hormone deficiency (AGHD)

- Route of Administration: subcutaneous
- Dosage Form: solution for injection
- Strength: (b) (4) 10 mg/1.5 mL ((b) (4) marketed strength) (b) (4)

^b Rimmel, S. Proprietary Name Review for (b) (4) (IND 116327). Silver Spring (MD): FDA, CDER, OSE, DMEPA (US); 2018 Dec 27. Panorama No. 2018-25027154.

- Dose and Frequency:
 - The proposed usual dosage in adult patients with adult GHD is (b) (4) mg/kg once weekly. Maximum weekly dose is 8 mg.

(b) (4)

- How Supplied: Single count pre-filled pen-injector.
- Storage: refrigerated at 2°C to 8°C (35.6°F to 46.4°F) and not frozen; when in use, this product can be stored for a maximum of 6 weeks at 2°C to 8°C (35.6°F to 46.4°F), including three days less than (b) (4).

2 RESULTS

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

2.1 MISBRANDING ASSESSMENT

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

2.2 SAFETY ASSESSMENT

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

2.2.1 *United States Adopted Names (USAN) Search*

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

2.2.2 *Components of the Proposed Proprietary Name*

Novo Nordisk did not provide a derivation or intended meaning for the proposed proprietary name, Sogroya, 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, April 24, 2019 e-mail, the Division of Metabolism and Endocrinology Products (DMEP) did not forward any comments or concerns relating to Sogroya at the initial phase of the review.

^c USAN stem search conducted on April 10, 2019.

2.2.4 FDA Name Simulation Studies

Sixty-three practitioners participated in DMEPA's prescription studies for Sogroya. 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^d identified twelve 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 twenty-five names retrieved from our POCA search and (b) (4) external 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 $\geq 70\%$	2
Moderately similar name pair: combined match percentage score $\geq 55\%$ to $\leq 69\%$	18
Low similarity name pair: combined match percentage score $\leq 54\%$	5

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

Our analysis of the twenty-five names contained in Table 1 determined none of the names will pose a risk for confusion with Sogroya as described in Appendices C through H. We note that there is a change in the specific product characteristics between the IND and BLA submissions. Specifically, Novo Nordisk stated that they only intend to pursue the 10 mg/1.5 mL strength presentation for adult use at this time. As previously noted, our assessment considered (b) (4) a single strength marketing scenario (b) (4)

2.2.8 Communication of DMEPA's Analysis at Midpoint of Review

DMEPA communicated our findings to the Division of Metabolism and Endocrinology Products (DMEP) via e-mail on September 19, 2019. At that time, we also requested additional

^d POCA search conducted on April 10, 2019 in version 4.3.

information or concerns that could inform our review. Per e-mail correspondence from the Division of Metabolism and Endocrinology Products (DMEP) on September 19, 2019, they stated no additional concerns with the proposed proprietary name, Sogroya.

3 CONCLUSION

The proposed proprietary name, Sogroya, 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 NOVO NORDISK

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

If any of the proposed characteristics as stated in your submission, received on August 28, 2019, 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).

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.^e

^e 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.
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 $\leq 54\%$.

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 ≥ 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^f. 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

^f 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.

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 $\geq 70\%$).

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.			
<u>Orthographic Checklist</u>		<u>Phonetic Checklist</u>	
Y/N	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>	Y/N	Do the names have different number of syllables?
Y/N	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>	Y/N	Do the names have different syllabic stresses?
Y/N	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?	Y/N	Do the syllables have different phonologic processes, such as 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 <u>with</u> overlapping or similar strengths or doses.

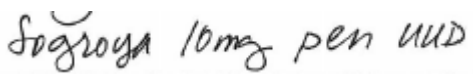
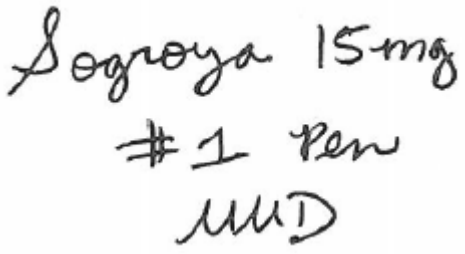
	Orthographic Checklist (Y/N to each question) - Do the names begin with different first letters? Note that even when names begin with different first letters, certain letters may be confused with each other when scripted. - Are the lengths of the names dissimilar* when scripted? *FDA considers the length of names 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?
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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. Sogroya Study (Conducted on May 28, 2019)

Handwritten Medication Order/Prescription	Verbal Prescription
<u>Medication Order:</u> 	Sogroya 10 mg UUD #1 pen
<u>Outpatient Prescription:</u> 	

FDA Prescription Simulation Responses (Aggregate Report)

Study Name: Sogroya					221 People Received Study 63 People Responded
Total	21	22	20	63	
INTERPRETATION	OUTPATIENT	VOICE	INPATIENT	TOTAL	
SAGROYA	0	4	0	4	
SEGROIA	0	2	0	2	
SEGROYA	0	9	0	9	
SEQROIA	0	2	0	2	
SOGROYA	21	1	20	42	
SOLANINE	0	0	0	0	
SUBGROIA	0	1	0	1	
SUGROIYA	0	1	0	1	
SUGROYA	0	1	0	1	
ZEGROYA	0	1	0	1	

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

No.	Proposed name: Sogroya Established name: somapacitan Dosage form: injection Strength(s): (b) (4) 10 mg/1.5 mL, Usual Dose: (b) (4) mg/kg once weekly. Maximum weekly dose is 8 mg	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.	Sogroya***	100	Name subject of this review
2.	(b) (4)***	72	Proposed proprietary name for this IND (116327) found unacceptable by DMEPA/OPDP (RCM 2018-25027154 dated 12/27/2018). Applicant submitted Sogroya for consideration.

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**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.	Proposed name: Sogroya Established name: somapacitan Dosage form: injection Strength(s): (b) (4) 10 mg/1.5 mL, Usual Dose: (b) (4) mg/kg once weekly. Maximum weekly dose is 8 mg	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
3.	Sobrerol	56	This name pair has sufficient orthographic and phonetic differences.
4.	Sangcya	56	Orthographically, there are differences in the infixes. For Sagroya, between the first letter S and the downstroke letters 'g' in the 3 rd position, there is only the single letter 'a'. This differs from Sangcya where the infix is lengthened due to an additional letter 'n' before the downstroke letter 'g' in the 4 th position in Sangcya, which also shifts the downstroke. Additionally,

No.	Proposed name: Sogroya Established name: somapacitan Dosage form: injection Strength(s): (b) (4) 10 mg/1.5 mL, (b) (4) Usual Dose: (b) (4) mg/kg once weekly. Maximum weekly dose is 8 mg	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
			the suffix of Sagroya is also lengthened orthographically due to the additional letter ‘o’ immediately preceding the downstroke ‘y.’ These provide some orthographic differences in the name pair. The sounds of the first and second syllables (‘So’ vs. ‘Sang’ and ‘groy’ vs ‘cy’) provide phonetic differences. Sangcya (cyclosporin) is a discontinued product (ANDA 064195 withdrawn FR effective date 8/7/2000), though there are currently other cyclosporin products on the market. Sangcya was indicated in the prophylaxis treatment of organ rejection in kidney, liver and heart transplants. Given that Sangcya was discontinued 19 years ago, patients today are prescribed different cyclosporin products. In the transplant and post-transplant setting, patients are closely monitored, and generally patients are carefully evaluated in the setting of changing formulations of immunosuppressant drugs, and this is unlikely to occur without the consent of the prescribing physician. Although generics of cyclosporine exist, we find it a low likelihood that any order written for Sogroya that is interpreted as Sangcya would result in a dispensing pharmacist selecting a different cyclosporine product without discussion with a prescribing

No.	Proposed name: Sogroya Established name: somapacitan Dosage form: injection Strength(s): (b) (4) 10 mg/1.5 mL, Usual Dose: (b) (4) mg/kg once weekly. Maximum weekly dose is 8 mg	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
			physician. This would allow for a decreased risk for confusion that can result in the patient receiving a wrong drug. Additionally, while we recognize that continued use of discontinued names can and has occurred, in this particular case, given Sangcya was discontinued 19 years ago, we again find there to be an extremely low likelihood that any orders for Sangcya would be written today. This minimizes the risk for an order for Sangcya being misinterpreted as an order for Sogroya.
5.	Prograf	56	This name pair has sufficient orthographic and phonetic differences.
6.	Zodryl Ac	56	This name pair has sufficient orthographic and phonetic differences.
7.	Sano-Drol	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 (%)
8.	(b) (4) ***	53
9.	Soliqua	44
10.	Solodyn	44
11.	Solu-Medrol	39
12.	Saxenda	34

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
13.	Soprodal	61	Name identified in RxNorm. Unable to locate product characteristics in commonly used drug databases. A product of similar spelling (Soprodol) was identified, however the combined POCA score was 53.
14.	Sucrose	58	Product is not a drug. It is a food product.
15.	Surolan	58	Veterinary product.
16.	Program	56	Veterinary product.

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

No.	Name	POCA Score (%)
17.	Tagrisso	59
18.	Estro-A	58
19.	Conray	56
20.	Conray 30	56
21.	Conray 43	56
22.	Conray 280	56
23.	Conray 325	56
24.	Conray 400	56
25.	Touro La	56

^g 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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