

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

218213Orig1s000

PROPRIETARY NAME REVIEW(S)

PROPRIETARY NAME MEMORANDUM

Division of Medication Error Prevention and Analysis 2 (DMEPA 2)
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:	October 17, 2023
Application Type and Number:	NDA 218213
Product Name and Strength:	Augtyro (b) (4) Capsule, 40 mg (b) (4)
Product Type:	Single Ingredient Product
Rx or OTC:	Choose an item
Applicant/Sponsor Name:	Bristol Myers Squibb Company (BMS)
PNR ID #:	2023-1044725336
DMEPA 2 Safety Evaluator:	Janine Stewart, PharmD
DMEPA 2 Team Leader:	Ashleigh Lowery, PharmD

1 INTRODUCTION

This memorandum is to reassess the proposed proprietary name, Augtyro, which was found unacceptable under NDA 218213 on June 23, 2023.^a The proposed proprietary name, Augtyro, was found to be vulnerable to medication errors due to confusion with another product, (b) (4) ***, under review at the time. Therefore, the ultimate acceptability of the proposed proprietary name, Augtyro, was dependent upon which underlying application was approved first.

We note that the goal date for NDA 218213 is November 27, 2023, whereas the application for (b) (4) *** remains in IND status. Therefore, if the proposed proprietary name, Augtyro, is granted approval under NDA 218213 on or before November 27, 2023, this application approval will precede approval of the application with the conflicting proposed name, (b) (4) ***.

Thus, BMS resubmitted the proposed proprietary name, Augtyro, for review.

2 METHODS AND DISCUSSION

2.1 SAFETY ASSESSMENT

For re-assessment of the proposed proprietary name, DMEPA 2 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, DMEPA 2 searched the USAN stem list to determine if the name contains any USAN stems as of the last USAN updates. The October 11, 2023 search of USAN stems did not find any USAN stems in the proposed proprietary name.

Finally, DMEPA 2 evaluated the application status of the conflicting name, (b) (4) ***, and determined that if NDA 218213 for Augtyro is approved on or before the November 27, 2023, this application approval will precede approval of the application with the conflicting proposed name, (b) (4) *** given the underlying application for (b) (4) *** remains in IND status.

Based upon our safety assessment of the proposed proprietary name, Augtyro, the application goal date for NDA 218213, and the application status for (b) (4) ***, we find Augtyro conditionally acceptable.

2.2 COMMUNICATION OF DMEPA'S 2 DETERMINATION

DMEPA 2 communicated our determination to the s via e-mail on October 17, 2023.

3 CONCLUSIONS

We conclude that the proposed proprietary name, Augtyro, is conditionally acceptable.

If you have any questions or need clarifications, please contact CAPT Latonia Ford, OSE project manager, at 301-796-4901.

^a Stewart, J. Proprietary Name Review for Augtyro (IND 130465, NDA 218213). Silver Spring (MD): FDA, CDER, OSE, DMEPA 2 (US); 2023 JUN 23. PNR ID No. 2023-1044725063.

3.1 COMMENTS TO BRISTOL MYERS SQUIBB COMPANY

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

If any of the proposed product characteristics as stated in your submission, received on September 12, 2023, are altered prior to approval of the marketing application, the name must be resubmitted for review.

If your application receives a complete response, please submit a new request for review of your proposed proprietary name when you respond to the application deficiencies.

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.

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/

JANINE A STEWART
10/17/2023 09:54:56 PM

ASHLEIGH V LOWERY
10/18/2023 07:38:06 AM

PROPRIETARY NAME REVIEW

Division of Medication Error Prevention and Analysis 2 (DMEPA 2)
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:	June 22, 2023
Application Type and Number:	IND 130465, NDA 218213
Product Name and Strength:	Augtyro (repotrectinib) Capsule, 40 mg (b) (4)
Product Type:	Single Ingredient Product
Rx or OTC:	Prescription (Rx)
Applicant/Sponsor Name:	Bristol Myers Squibb Company (BMS)
PNR ID #:	2023-1044725063
DMEPA 2 Safety Evaluator:	Janine Stewart, PharmD
DMEPA 2 Team Leader:	Ashleigh Lowery, PharmD
DMEPA 2 Associate Director for Nomenclature and Labeling:	Chi-Ming (Alice) Tu, PharmD, BCPS

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1 INTRODUCTION

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

1.1 PRODUCT INFORMATION

The following product information is provided in the proprietary name submission received on March 27, 2023.

- Intended Pronunciation: aug-TYE-ro
- Active Ingredient: repotrectinib
- Indication of Use: for the treatment of adult patients with locally advanced or metastatic ROS1-positive non-small cell lung cancer (NSCLC)
- Route of Administration: Oral
- Dosage Form: Capsule
- Strength: 40 mg (b) (4)
- Dose and Frequency: 160 mg (four 40 mg capsules (b) (4) daily for the first 14 days, then increase to 160 mg twice daily.
- How Supplied: High density polyethylene (HDPE) bottles (b) (4)
(b) (4) 40 mg: 60 count bottles; (b) (4)
- Storage: Store at 15°C to 30°C

2 RESULTS

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

2.1 MISBRANDING ASSESSMENT

The Office of Prescription Drug Promotion (OPDP) determined that Augtyro would not misbrand the proposed product. The Division of Medication Error Prevention and Analysis 2 (DMEPA 2) concurred with the findings of OPDP's assessment for Augtyro. The Division of Oncology 2 (DO2) concurred with the findings of OPDP's assessment for Augtyro.

2.2 SAFETY ASSESSMENT

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

2.2.1 United States Adopted Names (USAN) Search

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

2.2.2 Components of the Proposed Proprietary Name

BMS did not provide a derivation or intended meaning for the proposed proprietary name, Augtyro, in their submission. This proprietary name is comprised of a single word that contains the medical abbreviation “au”, meaning “each ear” (a route of administration), at the beginning of the name. Although we typically discourage the inclusion of medical abbreviations in proprietary names, we note the letter string “AU” is a common letter string in existing drug nomenclature (e.g., Aubagio, Austedo, Auvi-Q, Ridaura, etc.) and we are unaware of post-market reports of medication errors associated with this specific abbreviation through our routine surveillance. We also evaluated the potential risk of misinterpreting the proposed proprietary name as “AU [drug name similar to GTYRO]” and did not identify any names that would pose a risk of confusion. Therefore, in this case we do not object to the proposed proprietary name based on the inclusion of this medical abbreviation. Augtyro does not contain any other components (i.e., a modifier, route of administration, dosage form, etc.) that can contribute to medication error.

2.2.3 Disciplines at Initial Review

On April 17, 2023, the Division of Oncology 2 (DO2) did not forward any comments or concerns relating to Augtyro at the initial phase of the review.

2.2.4 FDA Name Simulation Studies

Ninety-four practitioners participated in DMEPA’s prescription studies for Augtyro. 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^b identified 24 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 (b) (4) external study. These name pairs are organized as highly similar, moderately similar or low similarity for further evaluation.

^a USAN stem search conducted on April 14, 2023.

^b POCA search conducted on April 14, 2023 in version 5.2.

Table 1. Names Retrieved for Review Organized by Name Pair Similarity	
Similarity Category	Number of Names
Highly similar name pair: combined match percentage score $\geq 70\%$	1
Moderately similar name pair: combined match percentage score $\geq 55\%$ to $\leq 69\%$	22
Low similarity name pair: combined match percentage score $\leq 54\%$	3

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

We determined 25 of the 26 names will not pose a risk for confusion with Augtyro as described in Appendices C through H. However, the proposed proprietary name could be confused with (b) (4) ***. The rationale for the risk of confusion is described in below.

Augtyro vs. (b) (4) ****

The proposed proprietary name, Augtyro, may be confused with another pending proposed proprietary name that is also under review, (b) (4) **, (b) (4), (b) (4)

(b) (4)

(b) (4), we are concerned that this difference may not prevent confusion between this name pair given the orthographic similarities of the names. We are aware of postmarketing reports of errors involving confusion between similarly named drug products,

even when strength differs. For example, name confusion has been reported between Rapaflo (silodosin) and Rapamune (sirolimus) despite their differences in strength (8 mg vs. 0.5 mg, 1 mg, 2 mg).^c In addition, name confusion has been reported between Prenexa and Ranexa, and Repraxain and Zyprexa despite their differences in indication, strength, and dose.^{d,e}

Furthermore, we recognize that the products have different indications (treatment of patients with locally advanced or metastatic ROS1-positive non-small cell lung cancer (NSCLC) versus (b) (4) however, we are concerned that this difference in indication may not prevent confusion. Despite widespread recommendations only a small percentage of medications ordered include the indication.^f

Additionally, we acknowledge that our conclusion differs from that of the (b) (4) external study submitted in support of the proposed proprietary name. However, the pending proprietary name is also under internal review and thus was not identified by the (b) (4) (b) (4) external study.

Therefore, based on the totality of the information above, we find the proposed proprietary name, Augtyro, vulnerable to medication errors due to name confusion with (b) (4) ***.

2.2.8 Communication of DMEPA's Determination

On June 22, 2023, DMEPA 2 communicated our determination to the Division of Oncology 2 (DO2).

3 CONCLUSION

The proposed proprietary name, Augtyro, is not acceptable from a safety perspective. The proposed proprietary name, Augtyro, is vulnerable to name confusion with (b) (4) ***. Therefore, the decision to deny the name will be communicated to BMS via letter (See Section 3.1).

If you have further questions or need clarifications, please contact CAPT Latonia Ford, OSE project manager, at 301-796-4901.

3.1 COMMENTS TO BRISTOL MYERS SQUIBB COMPANY

We have completed our review of the proposed proprietary name, Augtyro, and have concluded that this name is unacceptable for the following reasons:

^c Institute for Safe Medication Practices. 2012 Feb 09. Safety Briefs: Rapaflo and Rapamune confusion. ISMP Med Saf Alert Acute Care. 17(3):1-2.

^d Institute for Safe Medication Practices. March 2012. Safety briefs: Ranexa and Pranexa too similar. ISMP Med Saf Alert Community/Ambulatory Care. 11 (3): 1.

^e Institute for Safe Medication Practices. July 2005. Safety briefs: Repraxain or Zyprexa. ISMP Med Saf Alert Community/Ambulatory Care. 4 (7): 4.

^f Schiff GD Mirica MM, Dhavle AA, Galanter WL, Lambert B, Wright A. A Prescription for Enhancing Electronic Prescribing Safety. Health Affairs 2018; 37(11): 1877-1883.

Augtyro vs. pending proprietary name

The proposed proprietary name, Augtyro, could result in medication errors due to confusion with another product that is also under review.

Therefore, the ultimate acceptability of your proposed proprietary name, Augtyro, is dependent upon which underlying application is approved first. If another product is approved prior to your product, with a name that would be confused with your proposed name Augtyro, you will be requested to submit another name.

We acknowledge that our conclusion differs from that of the (b) (4) external study submitted in support of the proposed proprietary name. However, the pending proprietary name is also under review and thus was not identified by the (b) (4) external study.

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. ^g

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

***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, Cerner RxNorm, 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^h. 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

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

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

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

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

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

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

The OND/OGD Regulatory Division is contacted a second time following our analysis of the proposed proprietary name. At this point, DMEPA conveys their decision to accept or reject the name.

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.

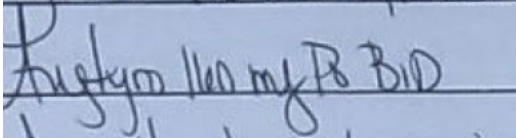
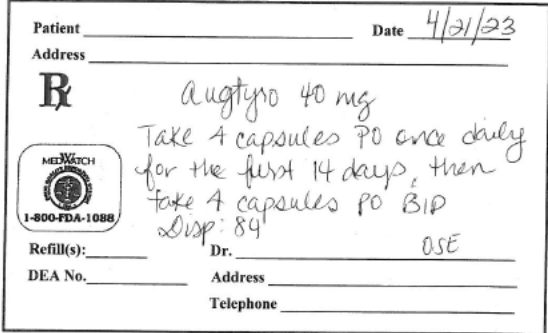
	Orthographic Checklist (Y/N to each question) - Do the names begin with different first letters? Note that even when names begin with different first letters, certain letters may be confused with each other when scripted. - Are the lengths of the names dissimilar* when scripted? *FDA considers the length 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. Augtyro Study (Conducted on April 21, 2023)

Handwritten Medication Order/Prescription	Verbal Prescription
<u>Medication Order:</u>  <u>Outpatient Prescription:</u>  CPOE Study Sample (displayed as sans-serif, 12-point, bold font) Augtyro	Augtyro 40 mg Take 4 capsules by mouth once daily for the first 14 days, then take 4 capsules by mouth twice daily. Dispense 84

FDA Prescription Simulation Responses (Aggregate Report)

Study Name: Augtyro

Study Name: Augtyro

256 People Received

Study

94 People Responded

Study Name: Augtyro

Total

22

25

26

21

INTERPRETATION	INPATIENT	CPOE	VOICE	OUTPATIENT	TOTAL
ANGTYRO	2	0	0	0	2
ANJTYRO	1	0	0	0	1
ANSTYN	1	0	0	0	1
ANYTYM	1	0	0	0	1
ANYTYRO	3	0	0	0	3
ASYTYRN 160MG	1	0	0	0	1
AUGLYM	1	0	0	0	1
AUGTIRYO	0	0	1	0	1
AUGTYRO	0	25	1	21	47
AUGYRO	1	0	0	0	1
AUJTYRO	1	0	0	0	1
AUSTYM	1	0	0	0	1
AUSTYRO	1	0	0	0	1
AUYTYRO	1	0	0	0	1
AYTYM	3	0	0	0	3
AYTYN	1	0	0	0	1
AYTYRO	2	0	0	0	2
HYTYM	1	0	0	0	1
OBTIRO	0	0	3	0	3
OBTYRO	0	0	5	0	5
OCTIRO	0	0	4	0	4
OCTYRO	0	0	5	0	5
OGTYRO	0	0	3	0	3
OPTIRO	0	0	2	0	2
OPTYRO	0	0	2	0	2

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

No.	Proposed name: Augtyro Established name: repotrectinib Dosage form: Capsule Strength(s): 40 mg (b) (4) Usual Dose: 160 mg daily for the first 14 days, then increase to 160 mg twice daily	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.	Augtyro	100	The subject of this review.

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

No.	Name	POCA Score (%)
1.	Anturol	61
2.	Actron	60
3.	Ak-Trol	60
4.	Alustra	58
5.	Austedo	58
6.	Antara	56
7.	Astepro	56
8.	Akpro	55
9.	Ak-Pro	55
10.	Axiron	55

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: Augtyro Established name: repotrectinib Dosage form: Capsule Strength(s): 40 mg (b) (4) Usual Dose: 160 mg daily for the first 14 days, then increase to 160 mg twice daily	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
1.	Accupro	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 (%)
1.	Auroto	50
2.	Aubagio	49

No.	Name	POCA Score (%)
3.	Augmentin	41

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
1.	(b) (4) **	59	Proposed proprietary name for NDA 208945 found unacceptable by DMEPA (OSE# 2016-9412542). NDA 208945 approved under the proprietary name Xepi.
2.	(b) (4) **	52	Proposed proprietary name for NDA (b) (4) found unacceptable by DMEPA (b) (4). NDA (b) (4) and no new names have been submitted.

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

No.	Name	POCA Score (%)
1.	Xacduro	58
2.	(b) (4) *	57
3.	(b) (4) **	57
4.	Onpattro	57
5.	Entero	56
6.	G-Tar	56
7.	Ocu-Trol	56
8.	Yutopar	56

ⁱ 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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