CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

207960Orig1s000

OTHER REVIEW(S)



M E M O R A N D U M Department of Health and Human Services Food and Drug Administration Center for Drug Evaluation and Research

Date:	December 4, 2015
To:	Mitchell Mathis, M.D., Director Division of Psychiatry Products
Through:	Michael Klein, Ph.D., Director Controlled Substance Staff
From:	Martin S. Rusinowiz, M.D., Medical Officer Controlled Substance Staff
Subject:	QuilliChew ER/Methylphenidate Extended-Release Tablet NDA 207960 Indication: Treatment of Attention Deficit Hyperactivity Disorder Dosages: Extended release tablets/ (b)(4) (20 mg, 30 mg, 40 mg equivalent salt) Sponsor: Pfizer, Inc.
Materials reviewed:	Sponsor's Clinical Overview; January 21, 2015 DARRTS, NDA 207960 CDTL Team Leader Review; Kempf, Lucas 11/24/2015

I.	Background	1
II.	Conclusions and Recommendations.	2
III.	Discussion	2

I. Background

Methylphenidate (MPH) was first approved for the treatment of Attention Deficit Hyperactivity Disorder (ADHD) in 1955. It was originally formulated as an immediate release (IR) tablet and later as an extended release (ER) tablet. ER formulations provide convenience and adherence for this mostly pediatric population that would require repeated dosing in school with IR formulations. The current application is for a new formulation that provides once daily extended release in a tablet that may be chewed or swallowed for patients who may not swallow pills whole, such as young children.

QuilliChew consists of the same drug release mechanism as MPH ER powder for oral suspension (Quillivant XR®), which is a to be a to be a to be a to be a top of MPH HCl.

The Sponsor proposed that the dosage form be 'chewable tablets'. However, USP <1151> states that a chewable tablet is one that must be chewed rather than one that may be chewed. As the drug product $(b)^{(4)}$ the dosage form designation is 'tablets' rather than 'chewable tablets'. Labeling negotiations have just been completed.

II. Conclusions and Recommendations

1. QuilliChew ER contains methylphenidate, a Schedule II controlled substance and is therefore subject to Schedule II regulations and penalties.

2. The product's Label and Medication Guide provide adequate instructions to minimize dosing errors.

3. Standard Periodic Adverse Event Reports (PADERS) are adequate for reviewing and reporting abuse related adverse events from the unknown ease of manipulation and extractability of the product's MPH API.

III. Discussion

Even though QuilliChew ER will remain a Schedule II controlled substance, CSS voiced concerns with the Sponsor about the potential for additional abuse liability of this MPH formulation. The ease of manipulation and extractability of the MPH API, compared with other available formulations, has not been studied. Additionally, we had been concerned about the possibility of dosing errors given that 'may be chewed or swallowed' will not be in the Dosage and Administration section of the label. This could potentially result in over- or under-dosing from misunderstanding the label. There may be cases of under-dosing if the tablet is spit out before being completely chewed, while there may also be cases of over-dosing if the patient swallows the tablet before complete chewing and then mistakenly takes another dose in an attempt to compensate. (These assumptions might be based on patients/parents assumption that the product consists of a chewing gum type resin.)

As labeling negotiations between the Division of Psychiatry Products (DPP) and the Sponsor have progressed it is now clear that in addition to the proprietary name (which implies the tablet is chewable) the Dosage Forms and Strengths section of the label as well as the Medication Guide describe the chewability of the product, along with it being swallowed whole. The Sponsor will plan standard PADERS for reviewing and reporting adverse events related to the unknown ease of manipulation and extractability of the MPH API.

/s/

MARTIN S RUSINOWITZ 12/04/2015

MICHAEL KLEIN 12/04/2015

PMR/PMC Development Template

This template should be completed by the PMR/PMC Development Coordinator and included for <u>each</u> PMR/PMC in the Action Package.

NDA/BLA # Product Name:	NDA 207960 – QuilliChew ER – methylphenidate extended-release tablets		
PMR/PMC Description:	Conduct a Pharmacokinetic study in Attention Deficit Hyperactivity Disorder (ADHD) patients aged 4-5 years old.		
PMR/PMC Schedule Mile	estones:	Final Protocol Submission: Study Completion: Final Report Submission:	09/30/2016 12/31/2019 09/30/2020

- 1. During application review, explain why this issue is appropriate for a PMR/PMC instead of a pre-approval requirement. Check type below and describe.
 - Unmet need
 Life-threatening condition
 Long-term data needed
 Only feasible to conduct post-approval
 Prior clinical experience indicates safety
 Small subpopulation affected
 Theoretical concern
 Other

There is sufficient information provided in the NDA to support a recommendation for approval of Quillichew ER in the treatment of ADHD for 6 years and older.

2. Describe the particular review issue and the goal of the study/clinical trial. If the study/clinical trial is a FDAAA PMR, describe the risk. If the FDAAA PMR is created post-approval, describe the "new safety information."

Clinical response to methylphenidate is highly correlated with the time concentration profiles of methylphenidate, and the PK profiles in 4-5 years old might be different compared to older children (i.e., 6 years and older). The goal of the study is to characterize the PK of Quilichew ER in ADHD patients aged 4 to 5 years old.

3. If the study/clinical trial is a **PMR**, check the applicable regulation. *If not a PMR, skip to 4*.

- Which regulation?

- Accelerated Approval (subpart H/E)
- Animal Efficacy Rule
- Pediatric Research Equity Act
- FDAAA required safety study/clinical trial

- If the PMR is a FDAAA safety study/clinical trial, does it: (check all that apply)

- Assess a known serious risk related to the use of the drug?
- Assess signals of serious risk related to the use of the drug?
- Identify an unexpected serious risk when available data indicate the potential for a serious risk?

- If the PMR is a FDAAA safety study/clinical trial, will it be conducted as:

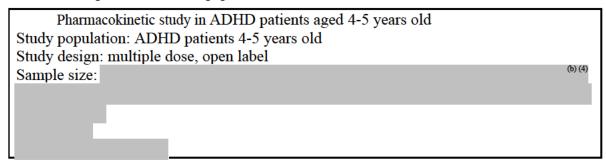
Analysis of spontaneous postmarketing adverse events?
 Do not select the above study/clinical trial type if: such an analysis will not be sufficient to assess or identify a serious risk

Analysis using pharmacovigilance system?

Do not select the above study/clinical trial type if: the new pharmacovigilance system that the FDA is required to establish under section 505(k)(3) has not yet been established and is thus not sufficient to assess this known serious risk, or has been established but is nevertheless not sufficient to assess or identify a serious risk

Study: all other investigations, such as investigations in humans that are not clinical trials as defined below (e.g., observational epidemiologic studies), animal studies, and laboratory experiments? **Do not select the above study type if:** a study will not be sufficient to identify or assess a serious risk

- Clinical trial: any prospective investigation in which the sponsor or investigator determines the method of assigning investigational product or other interventions to one or more human subjects?
- 4. What type of study or clinical trial is required or agreed upon (describe and check type below)? If the study or trial will be performed in a subpopulation, list here.



Required

- Observational pharmacoepidemiologic study
- Registry studies
- Primary safety study or clinical trial
- Pharmacogenetic or pharmacogenomic study or clinical trial if required to further assess safety
- Thorough Q-T clinical trial
- Nonclinical (animal) safety study (e.g., carcinogenicity, reproductive toxicology)

	 Nonclinical study (laboratory resistance, receptor affinity, quality study related to safety) Pharmacokinetic studies or clinical trials Drug interaction or bioavailability studies or clinical trials Dosing trials Continuation of Question 4
	Additional data or analysis required for a previously submitted or expected study/clinical trial (provide explanation)
	 Meta-analysis or pooled analysis of previous studies/clinical trials Immunogenicity as a marker of safety Other (provide explanation)
	Agreed upon: Quality study without a safety endpoint (e.g., manufacturing, stability) Pharmacoepidemiologic study not related to safe drug use (e.g., natural history of disease, background rates of adverse events) Clinical trials primarily designed to further define efficacy (e.g., in another condition, different disease severity, or subgroup) that are NOT required under Subpart H/E Dose-response study or clinical trial performed for effectiveness Nonclinical study, not safety-related (specify)
	Other Pharmacokinetic study in ADHD patients aged 4-5 years old.
5.	 Is the PMR/PMC clear, feasible, and appropriate? △ Does the study/clinical trial meet criteria for PMRs or PMCs? △ Are the objectives clear from the description of the PMR/PMC? △ Has the applicant adequately justified the choice of schedule milestone dates? △ Has the applicant had sufficient time to review the PMRs/PMCs, ask questions, determine feasibility, and contribute to the development process?
	Check if this form describes a FDAAA PMR that is a randomized controlled clinical trial
	If so, does the clinical trial meet the following criteria?
	 There is a significant question about the public health risks of an approved drug There is not enough existing information to assess these risks Information cannot be gained through a different kind of investigation The trial will be appropriately designed to answer question about a drug's efficacy and safety, and The trial will emphasize risk minimization for participants as the protocol is developed
PN	IR/PMC Development Coordinator: This PMR/PMC has been reviewed for clarity and consistency, and is necessary to further refine the safety, efficacy, or optimal use of a drug, or to ensure consistency and reliability of drug quality.

(signature line for BLAs)

/s/

HIREN PATEL 12/04/2015

MITCHELL V Mathis 12/04/2015

PMR/PMC Development Template

This template should be completed by the PMR/PMC Development Coordinator and included for <u>each</u> PMR/PMC in the Action Package.

NDA/BLA # Product Name:	NDA 207	960 – QuilliChew ER – methylphenidate exte	ended-release tablets
PMR/PMC Description:	Conduct a 6-week, double-blind, placebo-controlled, range group safety and efficacy study in children with Attention Hyperactivity Disorder (ADHD) 4-5 years of age using m formulation (QuilliChew ER).		on Deficit
PMR/PMC Schedule Mile	S	inal Protocol Submission: tudy Completion: inal Report Submission:	09/30/2016 12/31/2019 09/30/2020

- 1. During application review, explain why this issue is appropriate for a PMR/PMC instead of a pre-approval requirement. Check type below and describe.
 - Unmet need
 Life-threatening condition
 Long-term data needed
 Only feasible to conduct post-approval
 Prior clinical experience indicates safety
 Small subpopulation affected
 Theoretical concern
 Other

NDA 207960 has established safety and efficacy in pediatric patients 6 to 17 years of age. Studies in children 4 to 5 years of age are being deferred until after approval because this is a novel age range for ADHD drug trials. Formal protocols need to be submitted to and reviewed by the Division.

2. Describe the particular review issue and the goal of the study/clinical trial. If the study/clinical trial is a FDAAA PMR, describe the risk. If the FDAAA PMR is created post-approval, describe the "new safety information."

Psychostimulants, including methylphenidate, are the most common class of medication used to treat ADHD. The same stimulants used to treat ADHD in school-aged children are also widely used in the treatment of preschoolers with ADHD. Currently, methylphenidate is not approved by the FDA for treatment of children below 6 years of age.

The goal of this PMR is to evaluate the safety and efficacy of QuilliChew ER for the treatment of ADHD in children 4 to < 6 years of age.

3. If the study/clinical trial is a **PMR**, check the applicable regulation. *If not a PMR, skip to 4*.

Which regulation?

- Accelerated Approval (subpart H/E)
- Animal Efficacy Rule
- Pediatric Research Equity Act
- FDAAA required safety study/clinical trial

- If the PMR is a FDAAA safety study/clinical trial, does it: (check all that apply) NA

- Assess a known serious risk related to the use of the drug?
- Assess signals of serious risk related to the use of the drug?
- Identify an unexpected serious risk when available data indicate the potential for a serious risk?

- If the PMR is a FDAAA safety study/clinical trial, will it be conducted as: NA

Analysis of spontaneous postmarketing adverse events?

Do not select the above study/clinical trial type if: such an analysis will not be sufficient to assess or identify a serious risk

Analysis using pharmacovigilance system?

Do not select the above study/clinical trial type if: the new pharmacovigilance system that the FDA is required to establish under section 505(k)(3) has not yet been established and is thus not sufficient to assess this known serious risk, or has been established but is nevertheless not sufficient to assess or identify a serious risk

Study: all other investigations, such as investigations in humans that are not clinical trials as defined below (e.g., observational epidemiologic studies), animal studies, and laboratory experiments? **Do not select the above study type if:** a study will not be sufficient to identify or assess a serious risk

<u>Clinical trial</u>: any prospective investigation in which the sponsor or investigator determines the method of assigning investigational product or other interventions to one or more human subjects?

4. What type of study or clinical trial is required or agreed upon (describe and check type below)? If the study or trial will be performed in a subpopulation, list here.

Clinical Trial: A 6-week, double-blind, placebo-controlled, randomized, parallel-group safety and efficacy study in children with ADHD 4-5 years of age using methylphenidate ER formulation (QuilliChew ER)

Subpopulation: 4 to < 6 year old patients with ADHD

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	Observational pharmacoepidemiologic study Registry studies
	Primary safety study or clinical trial Pharmacogenetic or pharmacogenomic study or clinical trial if required to further assess safety Thorough Q-T clinical trial
	Nonclinical (animal) safety study (e.g., carcinogenicity, reproductive toxicology) Nonclinical study (laboratory resistance, receptor affinity, quality study related to safety)
	Pharmacokinetic studies or clinical trials Drug interaction or bioavailability studies or clinical trials Dosing trials <u>tinuation of Question 4</u>
	Additional data or analysis required for a previously submitted or expected study/clinical trial (provide explanation)
	Meta-analysis or pooled analysis of previous studies/clinical trials Immunogenicity as a marker of safety Other (provide explanation)
Agi	reed upon:
	Quality study without a safety endpoint (e.g., manufacturing, stability) Pharmacoepidemiologic study not related to safe drug use (e.g., natural history of disease, background rates of adverse events)
	Clinical trials primarily designed to further define efficacy (e.g., in another condition, different diseas severity, or subgroup) that are NOT required under Subpart H/E
	Dose-response study or clinical trial performed for effectiveness Nonclinical study, not safety-related (specify)

- Does the study/clinical trial meet criteria for PMRs or PMCs?
- Are the objectives clear from the description of the PMR/PMC?
- Has the applicant adequately justified the choice of schedule milestone dates?
- Has the applicant had sufficient time to review the PMRs/PMCs, ask questions, determine feasibility, and contribute to the development process?

Check if this form describes a FDAAA PMR that is a randomized controlled clinical trial

If so, does the clinical trial meet the following criteria?

- There is a significant question about the public health risks of an approved drug
- There is not enough existing information to assess these risks
- Information cannot be gained through a different kind of investigation
- The trial will be appropriately designed to answer question about a drug's efficacy and safety, and
- The trial will emphasize risk minimization for participants as the protocol is developed

PMR/PMC Development Coordinator:

This PMR/PMC has been reviewed for clarity and consistency, and is necessary to further refine the safety, efficacy, or optimal use of a drug, or to ensure consistency and reliability of drug quality.

(signature line for BLAs)

/s/

HIREN PATEL 12/04/2015

MITCHELL V Mathis 12/04/2015

PMR/PMC Development Template

This template should be completed by the PMR/PMC Development Coordinator and included for <u>each</u> PMR/PMC in the Action Package.

NDA/BLA # Product Name:	NDA 2	07960 – QuilliChew ER – methylph	enidate extended-release tablets
PMR/PMC Description:	inform (Quilli	ct a 6-month, open-label extension station on safety and tolerability of me Chew ER) in children 4 to <6 years activity Disorder (ADHD).	ethylphenidate ER formulation
PMR/PMC Schedule Mile	estones:	Final Protocol Submission: Study Completion: Final Report Submission:	09/30/2016 06/30/2020 03/31/2021

- 1. During application review, explain why this issue is appropriate for a PMR/PMC instead of a pre-approval requirement. Check type below and describe.
 - Unmet need
 Life-threatening condition
 Long-term data needed
 Only feasible to conduct post-approval
 Prior clinical experience indicates safety
 Small subpopulation affected
 Theoretical concern
 Other

NDA 207960 has established safety and efficacy in pediatric patients 6 to 17 years of age. Studies in children 4 to 5 years of age are being deferred until after approval because this is a novel age range for ADHD drug trials. Formal protocols need to be submitted to and reviewed by the Division.

2. Describe the particular review issue and the goal of the study/clinical trial. If the study/clinical trial is a FDAAA PMR, describe the risk. If the FDAAA PMR is created post-approval, describe the "new safety information."

Psychostimulants, including methylphenidate, are the most common class of medication used to treat ADHD. The same stimulants used to treat ADHD in school-aged children are also widely used in the treatment of preschoolers with ADHD. Currently, methylphenidate is not approved by the FDA for treatment of children below 6 years of age.

The goal of this PMR is to evaluate the longer term safety of Quillichew ER for the treatment of ADHD in children 4 to < 6 years of age.

3. If the study/clinical trial is a **PMR**, check the applicable regulation. *If not a PMR, skip to 4*.

Which regulation?

- Accelerated Approval (subpart H/E)
- Animal Efficacy Rule
- Pediatric Research Equity Act
- FDAAA required safety study/clinical trial

- If the PMR is a FDAAA safety study/clinical trial, does it: (check all that apply) NA

- Assess a known serious risk related to the use of the drug?
- Assess signals of serious risk related to the use of the drug?
- Identify an unexpected serious risk when available data indicate the potential for a serious risk?

- If the PMR is a FDAAA safety study/clinical trial, will it be conducted as: NA

Analysis of spontaneous postmarketing adverse events?

Do not select the above study/clinical trial type if: such an analysis will not be sufficient to assess or identify a serious risk

Analysis using pharmacovigilance system?

Do not select the above study/clinical trial type if: the new pharmacovigilance system that the FDA is required to establish under section 505(k)(3) has not yet been established and is thus not sufficient to assess this known serious risk, or has been established but is nevertheless not sufficient to assess or identify a serious risk

Study: all other investigations, such as investigations in humans that are not clinical trials as defined below (e.g., observational epidemiologic studies), animal studies, and laboratory experiments? **Do not select the above study type if:** a study will not be sufficient to identify or assess a serious risk

<u>Clinical trial</u>: any prospective investigation in which the sponsor or investigator determines the method of assigning investigational product or other interventions to one or more human subjects?

4. What type of study or clinical trial is required or agreed upon (describe and check type below)? If the study or trial will be performed in a subpopulation, list here.

Clinical Trial: A 6-month, open-label extension study to obtain additional information on safety and tolerability of methylphenidate ER formulation (QuilliChew ER) in children 4 to <6 years of age with ADHD **Subpopulation**: 4 to < 6 year old patients with ADHD

 Observational pharmacoepidemiologic study Registry studies Primary safety study or clinical trial Pharmacogenetic or pharmacogenomic study or clinical trial if required to further assess safety Thorough Q-T clinical trial Nonclinical (animal) safety study (e.g., carcinogenicity, reproductive toxicology) Nonclinical study (laboratory resistance, receptor affinity, quality study related to safety) Pharmacokinetic studies or clinical trials Drug interaction or bioavailability studies or clinical trials Dosing trials Continuation of Question 4 Additional data or analysis required for a previously submitted or expected study/clinical trial (provide explanation) Meta-analysis or pooled analysis of previous studies/clinical trials Other (provide explanation) 	
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Immunogenicity as a marker of safety	
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Agreed upon:	
 Quality study without a safety endpoint (e.g., manufacturing, stability) Pharmacoepidemiologic study not related to safe drug use (e.g., natural history of disease, backgr rates of adverse events) 	ound
Clinical trials primarily designed to further define efficacy (e.g., in another condition, different disseverity, or subgroup) that are NOT required under Subpart H/E	sease
 Dose-response study or clinical trial performed for effectiveness Nonclinical study, not safety-related (specify) 	
Other 6-month, open-label extension study to further define safety and tolerability of QuilliChew in 4 to < 6 year olds with ADHD	_
5. Is the PMR/PMC clear, feasible, and appropriate?	
 Does the study/clinical trial meet criteria for PMRs or PMCs? Are the objectives clear from the description of the PMR/PMC? Has the applicant adequately justified the choice of schedule milestone dates? Has the applicant had sufficient time to review the PMRs/PMCs, ask questions, determine feasible and contribute to the development process? 	oility,
Check if this form describes a FDAAA PMR that is a randomized controlled clinical trial	
If so, does the clinical trial meet the following criteria?	

There is a significant question about the public health risks of an approved drug

There is not enough existing information to assess these risks

Information cannot be gained through a different kind of investigation

The trial will be appropriately designed to answer question about a drug's efficacy and safety, and

The trial will emphasize risk minimization for participants as the protocol is developed

PMR/PMC Development Coordinator:

This PMR/PMC has been reviewed for clarity and consistency, and is necessary to further refine the safety, efficacy, or optimal use of a drug, or to ensure consistency and reliability of drug quality.

(signature line for BLAs)

/s/

HIREN PATEL 12/04/2015

MITCHELL V Mathis 12/04/2015

Department of Health and Human Services Public Health Service Food and Drug Administration Center for Drug Evaluation and Research Office of Medical Policy

PATIENT LABELING REVIEW

Date:	November 18, 2015
To:	Mitchell Mathis, MD Acting Director Division of Psychiatry Products (DPP)
Through:	LaShawn Griffiths, MSHS-PH, BSN, RN Associate Director for Patient Labeling Division of Medical Policy Programs (DMPP)
	Marcia Williams, PhD Team Leader, Patient Labeling Division of Medical Policy Programs (DMPP)
From:	Sharon W. Williams, MSN, BSN, RN Patient Labeling Reviewer Division of Medical Policy Programs (DMPP)
	Susannah O'Donnell, MPH, RAC Regulatory Review Officer Office of Prescription Drug Promotion (OPDP)
Subject:	Review of Patient Labeling: Medication Guide (MG)
Drug Name (established name):	QuilliChew Extended-Release (ER) (methylphenidate hydrochloride)
Dosage Form and Route:	extended-release chewable tablet
Application Type/Number:	NDA 207960
Applicant:	Pfizer, Inc.

1 INTRODUCTION

On February 4, 2015, Pfizer, Inc. submitted for the Agency's review an original New Drug Application (NDA) for methylphenidate hydrochloride extended- release chewable tablets as a treatment for Attention Deficit Hyperactivity Disorder (ADHD). On October 14, 2015, the Agency granted the sponsor's request for approval of the proprietary name, QuilliChew ER.

This collaborative review is written by the Division of Medical Policy Programs (DMPP) and the Office of Prescription Drug Promotion (OPDP) in response to a request by the Division of Psychiatry Products (DPP) on February 23, 2015 for DMPP and OPDP to review the Applicant's proposed Medication Guide (MG) for QuilliChew ER (methylphenidate hydrochloride) chewable tablets.

2 MATERIAL REVIEWED

- Draft QuilliChew ER (methylphenidate hydrochloride) chewable tablet MG, received on February 4, 2015, revised by the Review Division throughout the review cycle, and received by DMPP on November 10, 2015.
- Draft QuilliChew ER (methylphenidate hydrochloride) chewable tablet MG received on February 4, 2015, and received by OPDP on November 10 2015.
- Draft QuilliChew ER (methylphenidate hydrochloride) chewable tablet Prescribing Information (PI) received on February 4, 2015, revised by the Review Division throughout the review cycle, and received by DMPP on November 10, 2015.
- Draft QuilliChew ER (methylphenidate hydrochloride) chewable tablet Prescribing Information (PI) received on February 4, 2015, revised by the Review Division throughout the review cycle, and received by OPDP on November 10, 2015.
- Approved Quillivant ^{(b) (4)} (methylphenidate hydrochloride) comparator labeling dated April 17, 2015.

3 REVIEW METHODS

In 2008, the American Society of Consultant Pharmacists Foundation (ASCP) in collaboration with the American Foundation for the Blind (AFB) published *Guidelines for Prescription Labeling and Consumer Medication Information for People with Vision Loss.* The ASCP and AFB recommended using fonts such as Verdana, Arial or APHont to make medical information more accessible for patients with vision loss. We have reformated the MG document using the Arial font, size 10.

In our collaborative review of the MG we have:

• simplified wording and clarified concepts where possible

- ensured that the MG is consistent with the Prescribing Information (PI)
- ensured that the MG is free of promotional language or suggested revisions to ensure that it is free of promotional language
- ensured that the MG meets the Regulations as specified in 21 CFR 208.20
- ensured that the MG is consistent with the approved comparator labeling where applicable.
- ensured that the MG meets the criteria as specified in FDA's Guidance for Useful Written Consumer Medication Information (published July 2006)

4 CONCLUSIONS

The MG is acceptable with our recommended changes.

5 RECOMMENDATIONS

- Please send these comments to the Applicant and copy DMPP and OPDP on the correspondence.
- Our collaborative review of the MG is appended to this memorandum. Consult DMPP and OPDP regarding any additional revisions made to the PI to determine if corresponding revisions need to be made to the MG.

Please let us know if you have any questions.

7 Page(s) of Draft Labeling have been Withheld in Full as b4 (CCI/TS) immediately following this page

/s/

SHARON W WILLIAMS 11/18/2015

SUSANNAH O'DONNELL 11/18/2015

MARCIA B WILLIAMS 11/18/2015

LASHAWN M GRIFFITHS 11/18/2015

****Pre-decisional Agency Information****

Memorandum

Date:	November 18, 2015
То:	Hiren Patel, PharmD, MS, RAC Senior Regulatory Health Project Manager Division of Psychiatry Products (DPP)
From:	Susannah K. O'Donnell, MPH, RAC Regulatory Review Officer Office of Prescription Drug Promotion (OPDP)
Subject:	NDA 207960 QuilliChew ER [™] (methylphenidate hydrochloride) extended- release chewable tablets, for oral use, CII

OPDP has reviewed the draft product labeling (PI), Medication Guide (MG), and carton/container labeling for QuilliChew ER[™] (methylphenidate hydrochloride) extended-release chewable tablets, for oral use, CII (QuilliChew ER) as requested in the consult from DPP dated March 2, 2015.

OPDP's comments on the draft PI for QuilliChew ER are based on the version provided by Hiren Patel via email on November 10, 2015. Combined OPDP and Division of Medical Policy Programs (DMPP) comments on the proposed MG will be provided to DPP under separate cover.

OPDP has reviewed the proposed carton/container labeling, obtained from the EDR (<u>\CDSESUB1\evsprod\NDA207960\207960.enx</u> Seq. 0022) on November 17, 2015, and has no comments at this time.

If you have any questions, please feel free to contact me by phone at 301-796-3245 or by email at <u>Susannah.ODonnell@fda.hhs.gov</u>.

OPDP appreciates the opportunity to provide comments on these materials. Thank you!

17 Page(s) of Draft Labeling have been Withheld in Full as b4 (CCI/TS) immediately following this page

/s/

SUSANNAH O'DONNELL 11/18/2015

MEMORANDUM

REVIEW OF REVISED LABEL AND LABELING

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)

Date of This Memorandum:	November 13, 2015
Requesting Office or Division:	Division of Psychiatry Products
Application Type and Number:	NDA 207960
Product Name and Strength:	QuilliChew ER (methylphenidate hydrochloride) Extended-release Chewable Tablets 20 mg, 30 mg, and 40 mg
Submission Date:	November 11, 2015
Applicant/Sponsor Name:	Pfizer
OSE RCM #:	2015-892-2
DMEPA Primary Reviewer:	Deborah Myers, RPh, MBA
DMEPA Team Leader:	Danielle Harris, PharmD, PCPS

PURPOSE OF MEMO 1

The Division of Psychiatry Products (DPP) requested that we review the revised container labels for QuilliChew ER (Appendix A) to determine if they are acceptable from a medication error perspective. The revisions are in response to recommendations that we made during a previous label and labeling review.¹

2 CONCLUSION

The revised container labels for QuilliChew ER are acceptable from a medication error perspective. We have no further recommendations at this time.

¹ Holmes L. Label and Labeling Review Memorandum for QuilliChew ER (NDA 207960). Silver Spring (MD): Food and Drug Administration, Center for Drug Evaluation and Research, Office of Surveillance and Epidemiology, Division of Medication Error Prevention and Analysis (US); 2015 NOV 05. 3 p. OSE RCM No.: 2015-892-1.

¹ Page(s) of Draft Labeling have been Withheld in Full as b4 (CCI/TS) immediately following this page

/s/

DEBORAH E MYERS 11/13/2015

DANIELLE M HARRIS 11/13/2015

MEMORANDUM

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION CENTER FOR DRUG EVALUATION AND RESEARCH

CLINICAL INSPECTION SUMMARY

DATE:	11/5/2015
TO:	Hiren Patel, Regulatory Project Manager Christina Burkhart, M.D., Medical Officer and Clinical Reviewer Lucas Kempf, M.D., Medical Team Leader Division of Psychiatry Products (DPP)
FROM:	Jenn Sellers, M.D., Ph.D. F.A.A.P. Good Clinical Practice Assessment Branch Division of Clinical Compliance Evaluation Office of Scientific Investigations
THROUGH:	Susan D. Thompson, M.D. Team Leader Good Clinical Practice Assessment Branch Division of Clinical Compliance Evaluation Office of Scientific Investigations
	Kassa Ayalew, M.D., M.P.H., Branch Chief Good Clinical Practice Assessment Branch Division of Clinical Compliance Evaluation Office of Scientific Investigations
SUBJECT:	Evaluation of Clinical Inspections
NDA:	207960/SN000
APPLICANT:	NextWave Pharmaceuticals, Inc. (a subsidiary of Pfizer Inc.)
DRUG:	Methylphenidate HCl Extended-Release Chewable Tablets
NME:	No
REVIEW:	Standard Review
INDICATION:	ADHD
CONSULTATION R	EQUEST DATE: 03/23/2015

INSPECTION SUMMARY GOAL DATE:	November 6, 2015
DIVISION ACTION GOAL DATES:	December 4, 2015
PDUFA DATES:	December 4, 2015

I. BACKGROUND

The sponsor, NextWave Pharmaceuticals, Inc., a wholly owned subsidiary of Pfizer, developed an extended-release chewable tablet formulation of methylphenidate, also known as NWP09, for the treatment of ADHD. They submitted this 505(b) (2) application (NDA # 207960). The reference listed drug (RLD) was an immediate release formulation of methylphenidate, Methylin chewable tablet, which was approved by FDA on April 15, 2003.

This 505(b) (2) application includes a randomized, double-blind, placebo-controlled trial in 90 pediatric ADHD subjects aged 6 to 12 years in a laboratory classroom setting (Protocol# NWP09-ADHD-300). In the study, eligible enrolled subjects took open-label NWP09 orally once daily for 6 weeks to achieve a stable dose of 20 - 60 mg/day. After completing the Open-label Dose Optimization Period, subjects were evaluated for ADHD symptoms and signs using the Swanson, Kotkin, Agler, M-Flynn, and Pelham Rating Scale (SKAMP) and the Permanent Product Measure of Performance (PERMP) assessment in a laboratory classroom setting at multiple time points (abbreviated laboratory classroom day or Visit 8). Subjects who achieved a stable dose of NWP09 and successfully completed the pre-dose and 0.75- and 2-hour post-dose laboratory classroom sessions during Visit 8 were randomized to take double-blind study drug (NWP09 or placebo) orally once daily for 1 week. At the end of the 1-week Double-blind Treatment Period, subjects were evaluated for ADHD symptoms and signs using the SKAMP and PERMP assessments in a laboratory classroom setting at multiple time points throughout the day (complete laboratory classroom day or Visit 9).

The primary efficacy endpoint was the average of all post-dose SKAMP-combined scores collected during the double-blind laboratory classroom day (0.75, 2, 4, 8, 10, 12, and 13 hours after dosing). The key secondary efficacy endpoints were onset and duration of clinical effect of NWP09 versus placebo using the SKAMP-Combined scores at 0.75, 2, 4, 8, 10, 12, and 13 hours post-dose on the classroom study day (Visit 9). According to the sponsor, NWP09 demonstrated a statistically significant treatment effect in ADHD. The Division of Psychiatry Products (DPP) requested inspections of the following clinical investigator sites based primarily on large subject enrollment.

II. RESULTS (by Site):

Name of Clinical	Protocol Study Site	Inspection Date	Classification*
Investigator Location	•	Date	
Location	Number of Subjects Enrolled		
	(n)		
Andrew J. Cutler, M.D.	NWP09-ADHD-300		
Florida Clinical Research		05/13/2015	NAI
Center, LLC	Site # 03	to	
8043 Cooper Creek Blvd.,	N = 15	05/15/2015	
Suite 107			
Bradenton, FL 34201			
Matthew N. Brams, M.D.	NWP09-ADHD-300	4/29/2015,	NAI
Bayou City Research, Ltd.		4/30/2015,	
550 Westcott, Suite 310	Site # 04	5/1/2015,	
Houston, Texas 77007	N = 14	and	
		5/4/2015	
John M. Giblin, M.D.	NWP09-ADHD-300		
Clinical Study Centers,		The inspecti	on was cancelled
LLC	Site # 07	_	
11215 Hermitage Road,	N = 13		
Suites 200 and 201			
Little Rock, AR 72211			

*Key to Classifications

 $\overline{NAI} = No$ deviation from regulations. Data acceptable

VAI = Deviation(s) from regulations. Data acceptable

OAI = Significant deviations from regulations. Data unreliable

Pending = Preliminary classification based on information in 483 or preliminary communication with the field; EIR has not been received from the field and complete review of EIR is pending.

CLINICAL INVESTIGATOR (CI)

1. Andrew J. Cutler, M.D.

8043 Cooper Creek Blvd., Suite 107, Bradenton, FL 34201

- **a.** What was inspected: At this site, 17 subjects were screened, 15 were enrolled, and 14 completed the study. A complete review of all 17 subject records was conducted.
- b. **General observations/commentary:** No significant regulatory violations were noted, and no Form FDA 483 (List of Inspectional Observations) was issued. All primary and key secondary efficacy data were verifiable. There was no evidence of under-reporting of AEs.
- c. Assessment of data integrity: The study appears to have been conducted adequately, and data generated by this site appear acceptable in support of the respective indication.

Matthew N. Brams, M.D. 550 Westcott, Suite 310, Houston, Texas 77007

- **a.** What was inspected: At this site, 14 subjects were screened, 14 were enrolled, and 14 completed the study. An audit of study records, patient histories, lab results, concomitant medications, sponsor correspondence, progress notes, and 100% of the informed consent forms was conducted.
- b. **General observations/commentary:** It was verified that the subjects enrolled who participated in the clinical study met the inclusion criteria/exclusion criteria prior to randomization. All primary and the key secondary efficacy data were verifiable. There was no evidence of under-reporting of AEs. No significant regulatory violations were noted and no Form FDA 483 was issued.
- c. Assessment of data integrity: The study appears to have been conducted adequately, and the data generated by this site appear acceptable in support of the respective indication.

3. John M. Giblin, M.D.

No valid address was found

The FDA Dallas District informed OSI on 6/17/2015 that the FDA investigator discovered that the contact information provided by the sponsor for Dr. John Giblin was invalid when the investigator attempted to pre-announce the inspection. In addition, the Dallas District examined the FY14 BIMO assignment list and found that the assignment for Dr. Giblin in 2014 (FACTS #8765555) was cancelled because neither the Dallas District nor the sponsor could find Dr. Giblin.

OSI review team requested Pfizer Inc., the sponsor of NDA 207960, for the contact information of Dr. John Giblin and the location of the study records on 06/18/2015. The sponsor responded on 06/29/2015 that they could not locate the study records but were able to find the contact information in the website of Arkansas State Medical Board. OSI reviewer called the phone number provided and left a voice message for Dr. Giblin but no response received to date.

OSI requested the sponsor, Pfizer Inc., on 10/27/2015 to address how they determined that the data from Dr. Giblin's site is valid for submission of NDA 207960 (Protocol NWP09-ADHD-300), since the investigator and his records still cannot be located for inspectional verification. Pfizer responded on 11/2/2015. In the response, the sponsor stated that they had regular contact with Dr. Giblin and his study staff (a.k.a. Clinical Study Centers, LLC) during the conduct of the Study Protocol NWP09-ADHD-300 (the study initiation date was 07/02/2012 and the study completion date was 10/27/2012). In the response, the sponsor also provided the evidence of adequate monitoring of the clinical trial conducted in the site of Dr. Giblin. They concluded that the clinical trials conducted at Dr. Giblin's site were conducted in accordance with GCPs and other clinical study conduct guidelines and the study protocol.

OSI cancelled the inspection of Dr. Giblin's site based on the fact that Dr. Giblin and the study records cannot be located. DPP agreed with the cancellation and did not propose another site to be inspected.

III. OVERALL ASSESSMENT OF FINDINGS AND RECOMMENDATIONS

Two clinical investigator sites were inspected in support of this NDA and no significant regulatory violations were noted at these sites. Since the records for Dr. Giblin could not be located for inspection, OSI cannot confirm that the data from this site are reliable.

Based on results of these inspections, it appears that the data submitted by the Applicant in support of the requested indication are acceptable and the studies appear to have been conducted adequately.

{See appended electronic signature page}

Jenn W. Sellers, M.D., Ph.D., F.A.A.P. Good Clinical Practice Assessment Branch Division of Clinical Compliance Evaluation Office of Scientific Investigations

CONCURRENCE:

{See appended electronic signature page}

Susan D. Thompson, M.D. Team Leader Good Clinical Practice Assessment Branch Division of Clinical Compliance Evaluation Office of Scientific Investigations {*See appended electronic signature page*}

Kassa Ayalew, M.D., M.P.H. Branch Chief Good Clinical Practice Assessment Branch Division of Clinical Compliance Evaluation Office of Scientific Investigations

/s/

JENN W SELLERS 11/05/2015

SUSAN D THOMPSON 11/05/2015

KASSA AYALEW 11/05/2015

MEMORANDUM

REVIEW OF REVISED LABELS

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)

Date of This Memorandum:	November 5, 2015
Requesting Office or Division:	Division of Psychiatry Products (DPP)
Application Type and Number:	NDA 207960
Product Name and Strength:	QuilliChew ER (Methylphenidate HCl) Extended-release Chewable Tablets
	20 mg, 30 mg and 40 mg
Submission Date:	September 9, 2015
Applicant/Sponsor Name:	Pfizer Inc.
OSE RCM #:	2015-892-1
DMEPA Primary Reviewer:	Loretta Holmes, BSN, PharmD
DMEPA Team Leader:	Danielle Harris, PharmD, BCPS

1 PURPOSE OF MEMO

The Division of Psychiatry Products (DPP) requested that we review the revised container labels for QuilliChew ER (Appendix A) to determine if they are acceptable from a medication error perspective. The revisions are in response to recommendations that we made during a previous label and labeling review.¹

2 CONCLUSION

The revised container labels are unacceptable from a medication error perspective because the Medication Guide (MG) statement was not revised according to our recommendation.

¹ Holmes L. Label and Labeling Review for Methylphenidate HCL Extended-release Chewable Tables (NDA 207960). Silver Spring (MD): Food and Drug Administration, Center for Drug Evaluation and Research, Office of Surveillance and Epidemiology, Division of Medication Error Prevention and Analysis (US); 2015 JLY 14. 5 p. OSE RCM No.: 2015-892.

Additionally, the recently proposed name "QuilliChew ER" was found conditionally acceptable for this product and is not accurately reflected on the container labels.

3 RECOMMENDATIONS FOR PFIZER INC.

We recommend the following be implemented prior to approval of this NDA:

- A. All Container Labels
 - As proposed, the Medication Guide (MG) statement does not state <u>how</u> the MGs are provided [see 21 CFR 208.24(d)]. Please state how the MGs are provided (e.g., accompanying, enclosed, etc.).
 - 2. Replace the name " ^{(b) (4)} with the conditionally approved proprietary name, "QuilliChew ER".
 - 3. We note that the words ^{(b) (4)} appear in the lower right corner of the container labels. We find this misleading as it is inconsistent with the conditionally approved proprietary name, QuilliChew ER. Additionally, as presented, it only contains a portion of the approved proprietary name. It is unclear what the intent is for including this statement on the labels. To minimize the potential for confusion, remove the words ^{(b) (4)}, or revise the statement to accurately reflect the full proprietary name, "QuilliChew ER".

1 Page(s) of Draft Labeling have been Withheld in Full as b4 (CCI/TS) immediately following this page

/s/

LORETTA HOLMES 11/05/2015

DANIELLE M HARRIS 11/05/2015



Division of Pediatric and Maternal Health Office of New Drugs Center for Drug Evaluation and Research Food and Drug Administration Silver Spring, MD 20993 Tel 301-796-2200 FAX 301-796-9744

Division of Pediatric and Maternal Health Memorandum

Date:	October 19, 2015	Date consulted: February 23, 2015
From:	Miriam Dinatale, D.O., I Division of Pediatric and	Medical Officer, Maternal Health l Maternal Health
Through:	Tamara Johnson, MD, M Division of Pediatric and	IS, Acting Team Leader, Maternal Health l Maternal Health
	Lynne P. Yao, MD, ON Division of Pediatric and	
To:	Division of Psychiatry P	roducts (DPP)
Drug:	Methylphenidate Hydro	chloride Extended-Release Chewable Tablets
NDA:	207960	
Applicant:	Pfizer, Inc.	
Subject:	Pregnancy and Lactation	Labeling
Indication:	Treatment of Attention I	Deficit Hyperactivity Disorder (ADHD)
Materials		

Materials

Reviewed:

- DPMH consult request dated February 23, 2015, DARRTS Reference ID 3709903
- Sponsor's submitted background package for NDA 207960, Methylphenidate HCl ER
- DPMH consult review of Quillivant (methylphenidate HCl) Extended-Release Powder for Oral Suspension-NDA 202100 Upasana Bhatnager, M.D. and Erica Radden, M.D. September 20, 2012, DARRTS Reference ID 3192069.
- DPMH consult review of Aptensio XR-NDA 205831. Miriam Dinatale, D.O. March 16, 2015, DARRTS Reference ID 3715876.

- DPMH consult review of
- Pregnancy and Nursing Mothers subsections of Aptensio XR (NDA 205831) (b) (4) (methylphenidate) labeling

Consult Question:

DPP requests DPMH to "review labeling to ensure that it conforms to the Pregnancy Rule."

INTRODUCTION

The Division of Psychiatry Products (DPP) consulted the Division of Pediatric and Maternal Health (DPMH) on February 23, 2015, to provide input for appropriate labeling of the pregnancy and lactation subsections of Methylphenidate HCL ER labeling to comply with Pregnancy and Lactation Labeling Rule format.

REGULATORY HISTORY

Methylphenidate hydrochloride (HCL) extended-release (ER) is central nervous system (CNS) stimulant. On February 4, 2015, Pfizer, Inc. submitted a 505 (b)(2) New Drug Application (NDA 207960) for methylphenidate HCL ER to obtain approval to market methylphenidate HCL ER for the proposed indication of the treatment of patients with Attention-Deficit Hyperactivity Disorder (ADHD). The reference listed drug for this application is the orally administered Methylin (methylphenidate HCl), NDA 21475, and Quillivant XR (methylphenidate HCl ER powder for oral suspension), NDA 202100.

BACKGROUND

ADHD and Pregnancy

ADHD affects 4.4% of adults in the United States and is associated with an elevated risk of poorer general and mental health, substance abuse, impaired work performance. There have been no studies evaluating the course of ADHD in pregnancy and the postpartum period. While many women with ADHD can stop their medications during pregnancy without adverse effects, for other women, functional impairment may be severe. Some women with ADHD may be at an increased risk of motor vehicle accidents and have severe impairments in occupational, school and work functioning.¹

It is estimated that 30% of patients continue ADHD medications into adulthood. In an ongoing case-control surveillance study, Slone Epidemiology Center's Birth Defects Study (BDS), the prevalence of ADHD medication use was analyzed. In this study, 29,540 women were interviewed between 1998 and 2014, and there were 87 reported exposures to an ADHD medication. Although the overall prevalence of use of any ADHD medication was 0.3%, there was a marked increase in the prevalence of use over the period of the study, from 0.2% for women with last menstrual period (LMP) dates in 1997-1998 to 1.3% for women with LMP dates in 2013. The most commonly reported ADHD medication was amphetamine mixed salts (57.5%), followed by methylphenidate (29.9%). Of the 87 women who were exposed to an ADHD medication, all but one used it during the first trimester; 18 continued use into the second trimester, and 11 continued use into the third trimester. In a recent letter to the editor, Louik *et al.*, noted that although the use of ADHD medications in

¹ Freeman, MP. ADHD and pregnancy. Am J Psychiatry. 2014; 171 (7): 723-8.

pregnancy is increasing, there is lack of information regarding potential fetal risks in humans.²

Methylphenidate and Drug Characteristics

Methylphenidate HCl, which is a type of CNS stimulant, is indicated for the treatment of ADHD in adults and children. Methylphenidate HCl is thought to block the reuptake of norepinephrine and dopamine into the presynaptic neuron and increase the release of monoamines into the extraneuronal space. Methylphenidate has a molecular weight of 269.77 Daltons,

Common adverse events seen in children and adults who take methylphenidate products, regardless of immediate-release or extended-release formulations, include: decreased appetite, weight loss, nausea, abdominal pain, dyspepsia, dry mouth, vomiting, insomnia, anxiety, nervousness, restlessness, affect lability, agitation, irritability, dizziness, vertigo, tremor, blurred vision, blood pressure increased, heart rate increased, tachycardia, palpitations, hyperhidrosis, and pyrexia.

Pregnancy and Nursing Mothers Labeling

On December 4, 2014, the Food and Drug Administration (FDA) announced the publication of the "*Content and Format of Labeling for Human Prescription Drug and Biological Products; Requirements for Pregnancy and Lactation Labeling*,"⁴ also known as the Pregnancy and Lactation Labeling Rule (PLLR). The PLLR requirements include a change to the structure and content of labeling for human prescription drug and biologic products with regard to pregnancy and lactation and create a new subsection for information with regard to females and males of reproductive potential. Specifically, the pregnancy categories (A, B, C, D and X) are removed from all prescription drug and biological product labeling and a new format is required for all products that are subject to the 2006 Physicians Labeling Rule⁵ format to include information about the risks and benefits of using these products during pregnancy and lactation.

DISCUSSION

Nonclinical Experience

The applicant did not perform additional nonclinical studies for methylphenidate HCL ER and relied on literature included in the approved drug, Quillivant XR (methylphenidate), NDA 202100, to satisfy nonclinical requirements.

Overall, oral administration of methylphenidate to pregnant rabbits and rats during organogenesis was associated with an increased incidence of fetal spina bifida in rabbits at a dose 40 times the maximum recommended human dose (MRHD) and an increased incidence of fetal skeletal variations in rats at 7 times the MRHD (Maternal toxicity was seen at this

² Louik et al. Increasing use of ADHD medications in pregnancy. Pharmacoepidemiology and Drug Safety. 2015; 24: 218-220.

³ Applicant proposed methylphenidate HCl ER labeling. Section 12 Clinical Pharmacology.

⁴ Content and Format of Labeling for Human Prescription Drug and Biological Products, Requirements for Pregnancy and Lactation Labeling (79 FR 72063, December 4, 2014).

⁵ Requirements on Content and Format of Labeling for Human Prescription Drug and Biological Products, published in the Federal Register (71 FR 3922; January 24, 2006).

dose). A decrease in body weight gain was seen in the offspring of rats treated with methylphenidate throughout pregnancy and lactation at 4 times the MRHD. The reader is referred to the full Pharmacology/Toxicology review by Ikram Elayan, Ph.D.

Methylphenidate and Pregnancy

The applicant performed a search of its post-marketing safety database, clinical database and published literature through July 31, 2015 to identify cases involving methylphenidate use during pregnancy.

Overall, there were 20 pregnancies associated with methylphenidate use that were part of the post-marketing database review. A search of the clinical trials database did not identify any cases involving methylphenidate exposure during pregnancy. The following outcomes were seen:

- Two congenital anomalies (cleft lip and palate and neonatal behavioral syndrome⁶) were reported. The mothers were also taking other medications (citalopram, ferric carboxymaltose, fluoxetine, olanzapine, pantoprazole)
- Four post-marketing cases reporting complications in neonates following exposure to methylphenidate. The following symptoms were seen: apnea, drug withdrawal syndrome, tremor, agitation, bradycardia, feeding disorder, hypertonia, and irritability. The mothers had received other drugs (alprazolam, amoxapine, bromazepam, bromperidol, citalopram, clomipramine, ethyl loflazepate, flunitrazepam, fluvoxamine, paroxetine, venlafaxine) in addition to methylphenidate
- One elective termination (no reason given)
- Two spontaneous abortions (no information regarding fetal malformations was given)
- Two cases of premature birth (There was no further information about fetal outcome)
- Four healthy infants
- Five cases with fetal outcome pending or with no information

Reviewer comments:

The Slone Epidemiology Center's Birth Defects Study reviewed above noted that the overall prevalence of ADHD medication use in pregnant woman has increased. However, the applicant noted that only 20 methylphenidate-exposed pregnancies were reported in the post-marketing database, which seems to be a small number of methylphenidate-exposed pregnancies. The applicant's review of the post-marketing database may not have been complete or there may have been underreporting of pregnancies in women taking methylphenidate.

A review of the published literature was provided by the applicant, and there was one additional study related to methylphenidate and pregnancy that had not previously been reviewed by DPMH.^{14,15} The study is described below.

Haervig, et al. (2014)

In a retrospective study (Haervig, *et al.*), the authors looked at ADHD medication use during pregnancy in Denmark from 1999 to 2010. Of the 1,054,494 registered pregnancies, 480

⁶ Neonatal behavioral syndrome: includes tachypnea, cyanosis, tremors, increased muscle tone and feeding disturbances commonly seen in neonates exposed to Selective Serotonin Reuptake Inhibitors *in utero*.

pregnancies were exposed to ADHD medication (methylphenidate (81.88% of patients), atomoxetine (9.38% of patients) and modafinil (8.75% of patients)) at any time from 28 days prior to the first day of the last menstrual period (LMP) until the end of pregnancy. The usage of medications for ADHD during pregnancy increased from 5 to 533 per 100,000 person-years during the period from 2003 to the first quarter of 2010, and the trend was similar in the Danish women of childbearing age. Women using ADHD medication were young, single and nulliparous.

The study showed that exposed pregnancies were more likely to result in elective abortions per maternal requests (odds ratio [OR] = 4.70, 95 % CI: 3.77-5.85) or elective abortions due to special indications (reason not specified) (OR = 2.99, 95 % CI: 1.34-6.67), and miscarriage (OR = 2.07, 95 % CI: 1.51-2.84) compared with unexposed pregnancies. However, these observed effects were not confirmed in the additional case-crossover analysis. Only three pregnancies exposed to ADHD medication resulted in fetal malformation (rate of 0.6%, 95% CI= 0.6%-8.7% compared to a 3.9% rate of fetal malformation included and concluded that the use of ADHD medication in pregnancy was associated with different indicators of maternal disadvantage and with an increased risk of induced abortion and miscarriage.⁷

Reviewer comments:

Compared to women who were not exposed to ADHD medications, women who were exposed to ADHD medications had higher rates of induced abortion and miscarriage. However, further analysis of the results with case-crossover analysis did not reproduce the results that the authors had found. The increased rates of induced abortions and miscarriages seen in the study above may not be due to use of ADHD medications, but may be related to other factors, including factors related to socioeconomic status (age, marital status, education, income) or use of other medications. The women who were on ADHD medications were younger, single, had a history of a prior induced abortions, had less schooling, had low income and were more likely to be on anti-anxiety and anti-depressant medications, which makes it difficult to attribute increased rates of induced abortions and miscarriage to taking ADHD medications alone. These socioeconomic factors may have contributed to the increased rates of induced abortions and miscarriage to taking the results of this study less reliable.

Discussion

Overall, there are limited controlled data on the use of methylphenidate in pregnancy. Studies that have described an increased risk of fetal malformations, prematurity and small-for-gestational age, also have confounders that make it difficult to associate methylphenidate use with these conditions.^{8,9} Other studies have not found an increased rate of fetal malformations or spontaneous abortions, but there were not enough methylphenidate-

⁷ Haervig KB, Mortensen LH, Hansen AV, et al. Use of ADHD medication during pregnancy from 1999 to 2010: a Danish register-based study. Pharmacoepidemiol Drug Saf 2014; 23(5):526-33.

⁸ Bro, et al. Adverse pregnancy outcomes after exposure to methylphenidate or atomoxetine during pregnancy. Clin Epidemiol. 2015; 29: 139-47.

⁹ Bolea-Alamanac, et al. Methylphenidate use in pregnancy and lactation: a systemic review of evidence. BJCP. 2014; 77(1): 96-101.

exposed pregnancies in these studies to allow risk estimates of specific malformations.^{10,11,12,13} Therefore, it is premature to conclude that methylphenidate is associated with an increased risk for spontaneous abortions or adverse fetal outcomes. DPMH does not recommend incorporation of the data reviewed above in current labeling. The reader is referred to DPMH reviews on Aptensio XR (b) (4) (methylphenidate) by Miriam Dinatale, DO for further details.^{14,15}

Methylphenidate and Lactation

The applicant performed a literature search to evaluate the effects of methylphenidate during lactation. DPMH also performed a search of the Drugs and Lactation Database (LactMed)¹⁶ and Pubmed. Limited evidence indicates that methylphenidate levels in breast milk are low, and there is no evidence of adverse effects on nursing infants. The effects of methylphenidate in breast milk on the neurological development of the infant have not been well studied. The reader is referred to DPMH reviews on Aptensio XR (b) (4) (methylphenidate) by Miriam Dinatale, DO, for a complete review of the published literature related to methylphenidate use during lactation.^{17,18}

The American Academy of Pediatrics Committee on Drugs (2013)

The American Academy of Pediatrics Committee on Drugs 2013 reports that amphetamine exposure in the breastfeeding infant has resulted in cases of infant hypertension, tachycardia and seizures. In animal studies of postnatal exposure, long-term behavioral effects (learning and memory deficits), as well as altered locomotor activity, have been observed. Because current published data are insufficient to determine the long-term effects on infants exposed to stimulants through breast milk, physicians must counsel patients about the potential risks to an infant balanced with the risk of stopping the medication in the mother.¹⁹

¹⁵ DPMH consult review of

(b) (4)

¹⁰ Pottegard, et al. First-Trimester Exposure to Methylphenidate: A Population-Based Cohort Study. The Journal of Clinical Psychiatry. 2014; 75(1): e88-e93.

¹¹ Dideriksen, et al. First Trimester In Utero Exposure to Methylphenidate. Basic and Clinical Pharmacology & Toxicology. 2013; 112 (2): 73-76.

¹² Wajnberg, et al. Pregnancy outcome after in-utero exposure to methylphenidate: A prospective comparative cohort study. Reproductive Toxicology. 2011; 21: 255-268.

¹³ Heinonen OP et al. Birth Defects and Drugs in Pregnancy. Littleton Publishing Sciences Group. 1977. p8-15.345-355.

¹⁴ DPMH consult review of Aptensio XR-NDA 205831. Miriam Dinatale, D.O. March 16, 2015, DARRTS Reference ID 3715876. (b) (4)

¹⁶ http://toxnet nlm nih.gov/cgi-bin/sis/htmlgen?LACT. The LactMed database is a National Library of Medicine (NLM) database with information on drugs and lactation geared toward healthcare practitioners and nursing women. The LactMed database provides information when available on maternal levels in breast milk, infant blood levels, any potential effects in the breastfed infants if known, alternative drugs that can be considered and the American Academy of Pediatrics category indicating the level of compatibility of the drug with breastfeeding.

¹⁷ DPMH consult review of Aptensio XR-NDA 205831. Miriam Dinatale, D.O. March 16, 2015, DARRTS Reference ID 3715876.

¹⁸ DPMH consult review of

American Academy of Pediatrics: Committee on Drugs. The Transfer of Drugs and Therapeutics Into Human Breast Milk: An Update on Selected Topics. Pediatrics. 2013; 132 (3): e796-809.

<u>Medications and Mother's Milk: A Manual of Lactational Pharmacology (2012)</u> In Hale's Medication and Mother's Milk, Dr. Thomas Hale, a breastfeeding expert, classifies breastfeeding as "probably safe" with maternal use of methylphenidate. Dr. Hale reviewed the same published articles that were reviewed by DPMH in previous consult reviews.²⁰

Discussion

The characteristics of methylphenidate suggest that methylphenidate is present in breast milk. Methylphenidate has low protein-binding of $^{(b)(4)}$ % (medications with protein-binding less than $^{(b)}_{44}$ % are more extensively excreted into breastmilk), a low molecular weight of 269.7 Daltons (drugs with molecular weights less than 800 Daltons are more readily transferred to the milk compartment), and a high pH of $^{(b)(4)}$ (a higher pH means that more drug will be present in breast milk that in plasma). ²¹

There are insufficient data to recommend that breastfeeding be contraindicated during maternal use of methylphenidate. Although, there have been reports of infant adverse events with exposure to amphetamines, which are also CNS stimulants, there have been no reported adverse events seen in infants of mothers who have taken methylphenidate while breastfeeding. If women choose to breastfeed while taking methylphenidate, they should be aware of potential side effects (agitation, insomnia, anorexia, and reduced weight gain) in their infants.²²

Methylphenidate and Females and Males of Reproductive Potential

In animal studies, methylphenidate did not impair fertility in male or female mice at doses up to 8 times the maximum recommended human dose of methylphenidate (160mg/kg/day) in 18-week continuous breeding studies. The reader is referred to the full Pharmacology/Toxicology review by Ikram Elayan, Ph.D. for further details.

The applicant and DPMH performed a literature search evaluating the effects of methylphenidate on females and males of reproductive potential. The applicant did not find any available articles. In a prior review of methylphenidate, DPMH reviewed a case report of idiopathic testicular failure that discussed long-term methylphenidate use and delayed puberty. The reader is referred to the DPMH review on ^{(b)(4)}(methylphenidate) by Miriam Dinatale, DO, for further details on this case report. Overall, DPMH included the case report for completeness but noted that the information was not sufficient to conclude a drug-associated risk or to include the information in section 8.3, Females and Males of Reproductive Potential, of labeling.²³

(b) (4)

²⁰ Hale, Thomas. Medications and Mother's Milk: A Manual of Lactational Pharmacology, 15th edition. Hale Publishing, L.P. 2012

²¹ Nice, F and Luo, Amy. Medications and breast-feeding: Current Concepts. Journal of the American Pharmacists Association. 2012; 51 (1): 86-94.

²² Hale, Thomas. Medications and Mothers' Milk: 15th edition. Hale Publishing, L.P. 2012

²³ DPMH consult review of

CONCLUSIONS

Methylphenidate HCl ER has been updated to comply with the PLLR. A review of the literature revealed no new data with methylphenidate use in pregnant or lactating women. DPMH has the following recommendations for Methylphenidate HCl ER labeling:

- Pregnancy, Section 8.1
 - The "Pregnancy" subsection of methylphenidate HCl ER labeling was formatted in the PLLR format to include: "Risk Summary," "Clinical Considerations," and "Data" subsections²⁴.
- Lactation, Section 8.2
 - The "Lactation" subsection of methylphenidate HCl ER labeling was formatted in the PLLR format to include: the "Risk Summary" and "Clinical Considerations" subsections²⁵.

RECOMMENDATIONS

DPMH revised sections 8.1 and 8.2 of Methylphenidate HCl ER labeling for compliance with the PLLR (see below). DPMH refers to the final NDA action for final labeling. (See Appendix A for the applicant's proposed pregnancy and lactation labeling.)

FULL PRESCRIBING INFORMATION

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

<u>Risk Summary</u>

Limited published studies report on the use of methylphenidate in pregnant women; however, the data are insufficient to inform any drug-associated risks. No teratogenic effects were observed in embryo-fetal development studies with oral administration of methylphenidate to pregnant rats and rabbits during organogenesis at doses 2 and 11 times, respectively, the maximum recommended human dose (MRHD). However, spina bifida was observed in rabbits at a dose 40 times the MRHD.

[see Data].

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

Clinical Considerations

Fetal/Neonatal adverse reactions

CNS stimulants, such as TRADE NAME, can cause vasoconstriction and thereby decrease placental perfusion. No fetal and/or neonatal adverse reactions have been reported with the

²⁴ Guidance for Industry: Pregnancy, Lactation, and Reproductive Potential: Labeling for Human Prescription Drug and Biological Products-Content and Format. December 2014. Part IV Specific Subsection A-8.1 Pregnancy, 2-Risk Summary.

²⁵ Guidance for Industry: Pregnancy, Lactation, and Reproductive Potential: Labeling for Human Prescription Drug and Biological Products-Content and Format. December 2014. Part IV Specific Subsection, B- 8.2 Lactation, 1- Risk Summary.

use of therapeutic doses of methylphenidate during pregnancy; however, premature delivery and low birth weight infants have been reported in amphetamine-dependent mothers.

Data

Animal Data

In studies conducted in rats and rabbits, methylphenidate was administered orally at doses of up to 75 and 200 mg/kg/day, respectively, during the period of organogenesis. Teratogenic effects (increased incidence of fetal spina bifida) were observed in rabbits at the highest dose, which is approximately 40 times the maximum recommended human dose (MRHD) on a mg/m^2 basis. The no effect level for embryo-fetal development in rabbits was 60 mg/kg/day (11 times the MRHD on a mg/m^2 basis). There was no evidence of specific teratogenic activity in rats, although increased incidences of fetal skeletal variations were seen at the highest dose level (7 times the MRHD on a mg/m^2 basis), which was also maternally toxic. The no effect level for embryo-fetal development in rats was 25 mg/kg/day (2 times the MRHD on a mg/m^2 basis).

8.2 Lactation

Risk Summary

Limited published literature reports that methylphenidate is present in human milk, which resulted in infant doses of 0.16% to 0.7% of the maternal weight-adjusted dosage and a milk/plasma ratio ranging between 1.1 and 2.7. There are no reports of adverse effects on the breastfed infant and no effects on milk production. Long-term neurodevelopmental effects on infants from stimulant exposure are unknown. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for TRADENAME and any potential adverse effects on the breastfeed infant from TRADENAME or from the underlying maternal condition.

Clinical Considerations

Monitor breastfeeding infants for adverse reactions, such as agitation, insomnia, anorexia, and reduced weight gain.

4 Page(s) of Draft Labeling have been Withheld in Full as b4 (CCI/TS) immediately following this page

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/s/

MIRIAM C DINATALE 10/19/2015

TAMARA N JOHNSON 10/19/2015

LYNNE P YAO 10/26/2015 (b) (4)



DEPARTMENT OF HEALTH & HUMAN SERVICES Public Health Service

Food and Drug Administration Office of New Drugs, ODE-IV Division of Pediatric and Maternal Health Silver Spring, MD 20993 Telephone 301-796-2200 FAX 301-796-9855

MEMORANDUM TO FILE

From:	Ethan D. Hausman, MD, Medical Officer Division of Pediatric and Maternal Health (DPMH)
Through:	Hari Cheryl Sachs, MD, Medical Team Leader Linda Lewis, MD, Acting Deputy Division Director DPMH
NDA Number:	207,960
Sponsor:	Pfizer, Inc.
Drug:	methylphenidate (proposed trade name: (b) (4)
Dosage form and	
route of administration:	20, 30, and 40 mg chewable tablets, oral (PO)
Proposed Dosing regimen:	20 to 60 mg/day
Indication:	Attention Deficit Hyperactivity Disorder (ADHD)
Division Consult Request	The Division of Psychiatry Products (DPP) requests

Division Consult Request: The Division of Psychiatry Products (DPP) requests both Maternal Health and Pediatric labeling assistance for this original NDA for a methylphenidate product for treatment of ADHD.

Background

This product (proposed tradename: ^{(b)(4)} is a chewable, extended-release methylphenidate hydrochloride medication under development for treatment of attention deficit/hyperactivity disorder (ADHD) in affected patients 6 years and older.

A brief overview of ADHD and approved drug treatments is provided below, followed by a brief summary of the data submitted to support labeling, and the labeling review.

Disease Background

ADHD is defined by the diagnostic and statistical manual 5th edition (DSM-V) of the American Psychiatric Association as a persistent pattern or inattention and/or hyperactivity-impulsivity that interferes with functioning or development.¹ While prevalence figures in the United States population vary, data suggest that ADHD occurs in 3 to 10% of school aged children, 10 to 60% of whom have symptoms as adults (up to 4% of the adult population).^{2,3,4}

Treatment includes a combination of behavioral therapy and drug therapy. Approved drug therapies fall into two broad categories: non-stimulant medications (e.g., clonidine, [NDA 22,331] and guanfacine [NDA 22,037]), for patients 6 years and older; atomoxetine [NDA 21,411] for patients 6 years and older) and stimulant medications (methylphenidate- and amphetamine-like products). Most stimulant medications for ADHD treatment are approved for use in patients 6 years and older; however, several products such as mixed amphetamine salts (ANDA 40,422) and two generic dextroamphetamine products (ANDA 203,644 and ANDA 84,051) are approved for patients 3 years and older.

Clinical Program

This NDA was submitted as a 505(b)(2) application with reliance on four studies performed by the sponsor and upon data sources from entities other than the sponsor including, but not limited to, literature and right of reference to labeling for the reference listed drug [NDA 202,100, Quillivant XR oral suspension].

The sponsor conducted three bioavailability (BA) studies, including a food effects study, in healthy adult volunteers, and a clinical trial of safety and efficacy in 90 pediatric patients, ages 6 to 12 years. The pediatric safety and efficacy study is summarized below.

<u>Pediatric Study</u>: Ninety pediatric patients meeting DSM-IV criteria for ADHD enrolled in a two part, 7-week study. Part 1 was a 6-week open label dose optimization period where patients received 20 mg PO study drug (methylphenidate) in the morning. Based on response, dose of methylphenidate could be titrated up in 10 or 20 mg/day increments to a maximum of 60 mg/day. At the end of Part 1, patients entered a randomized, double-

¹ American Psychiatric Association: Diagnostic and Statistical Manual of Mental Disorders, 5th edition. Arlington, VA., American Psychiatric Association, 2013.

² Wilens T, Faraone S, Biederman J, Attention-deficit/hyperactivity disorder in adults. JAMA. 2004 Aug 4;292(5):619-23.

³ Kessler R, Adler L, Barkley R., et al. The prevalence and correlates of adult ADHD in the United States: results from the National Comorbidity Survey Replication. Am J Psychiatry 2006; 163(4):716-723.

⁴ Gentile J, Atig R, Gillig P. Adult ADHD Diagnosis, Differential Diagnosis, and Medication Management. Psychiatry (Edgemont). Aug 2006;3(8):25-30.

blind, placebo-controlled, withdrawal phase. Of 90 patients who enrolled in Part 1, 86 completed Part 1 and enrolled in and completed Part 2. At the end of Part 2, response in drug and placebo-treated patients was compared using standardized tests of class-room behavior.

<u>Reviewer comment 1</u>: Per discussions with DPP, the differences between the current (DSM-V) and prior (DSM-IV) definitions of ADHD are qualitative in nature⁵ and do not invalidate the study design, data quality, or the ability to draw clinical conclusions from the study. Review of safety and efficacy are deferred to DPP and Statistics; however, the overall study design is consistent with recent studies conducted in support of other stimulant medication products for treatment of ADHD [Aptensio XR, NDA 205,831]

<u>Reviewer comment 2</u>: Per discussions with the DPP team at the mid-cycle meeting of July 7, 2015, reliance on referenced data with similar products and the three BA studies and the single clinical study for this product would likely be adequate to assess efficacy and safety in patients six years and older. Review of the data is deferred to DPP and other consultant divisions.

Labeling Review

Except where otherwise noted, this labeling review is based on the labeling version located in SharePoint on June 30, 2015. The labeling is undergoing substantial revisions by multiple consultant disciplines and the comments below were shared with the review team in advance of the labeling meeting of July 15, 2015.

This labeling review is limited to review of the proposed Boxed Warning, sections 1 (Indications and Usage), 2 (Dosage and Administration), 4 (Contraindications), 5 (Warnings and Precautions), and section 8.4 (Pediatric Usage). Sections 8.1 and 8.3 will be addressed in the separate Maternal Health labeling consult.

For each section, the suggested labeling is presented first and is followed by suggested revisions which are noted in *bold italics*.

<u>Note</u>: The highlights section of labeling has been reviewed and is consistent with the highlights section for other recently approved stimulant medications for treatment of ADHD (Aptensio XR, NDA 205,831; approved April 17, 2015). The reader is directed to final negotiated labeling (pending) for editorial changes which are not described in this review

<u>Note</u>: Sections 6 (Adverse Reactions) and 14 (Clinical Studies) have been reviewed in their entirety and appear generally consistent with other stimulant medication drugs approved for treatment of ADHD. Since sections 6 and 14 are still undergoing review by DPP and other consultant divisions for determination of safety and effectiveness, these two sections are not included in this review.

Boxed Warning

Proposed

⁵ Highlights of Changes from DSM-IV-TR to DSM-5. American Psychiatric Association. American Psychiatric Publishing, 2013; [http://www.dsm5.org/Documents/changes%20from%20dsm-iv-tr%20to%20dsm-5.pdf]; website accessed: October 6, 2015.

"CNS stimulants, including <TRADENAME>, other methylphenidate-containing products, and amphetamines, have a high potential for abuse and dependence. Assess the risk of abuse prior to prescribing, and monitor for signs of abuse and dependence while on therapy [see Warning and Precautions (5.1), Drug Abuse and Dependence (9.2, 9.3)]."

<u>Reviewer comments</u>: This proposed boxed warning matches the boxed warning for other recently approved stimulant medications intended for treatment of ADHD (e.g., Aptensio XR) and is appropriate.

1. Indication

<TRADENAME> is indicated for the treatment of Attention Deficit Hyperactivity Disorder (ADHD).

<u>*Reviewer comments:*</u> The proposed indication is consistent with the indication for Aptensio XR and is appropriate.

(b) (4)

2. Dosage and Administration

<u>Reviewer comment</u>: This section has undergone substantial revision since initial DPMH comments were provided to DPP. The version that is in SharePoint as of August 25, 2015 reflects prior DPMH suggestions and is presented below without additional edits and is acceptable. Additional revisions, if needed, are deferred to Clinical Pharmacology and DPP.

2.1 Dos

The recommended starting dose of $\langle TRADENAME \rangle$ for patients 6 years and above is 20 mg once daily in the morning. The dose may be titrated weekly in increments of 10 mg, 15 mg or 20 mg. The 10 mg and 15 mg doses can each be achieved by breaking in half the functionally scored 20 mg and 30 mg tablets, respectively)

The dose should be individualized according to the needs and responses of the patient. Daily doses above 60 mg have not been studied and are not recommended.

(b) (4)

Pharmacological treatment of ADHD may be needed for extended periods. Healthcare providers should periodically re-evaluate the long-term use of <TRADENAME>, and adjust dosage as needed.

<u>Reviewer comment</u>: During the labeling meeting of October 5, 2015, Clinical Pharmacology and DPP determined that description in the above section is appropriate. DPP and Clinical Pharmacology stated that the sentence

2.2 Administration Instructions

<TRADENAME> should be orally administered once daily in the morning with or without food.

[see Clinical Pharmacology (12.3)].

2.3 Dose Reduction and Discontinuation

If paradoxical aggravation of symptoms or other adverse effects occur, reduce dosage, or, if necessary, discontinue the drug. <TRADENAME> should be periodically discontinued to assess the child's condition. If improvement is not observed after appropriate dosage adjustment over a one-month period, the drug should be discontinued.

4. Contraindications

<u>Reviewer comment</u>: The sponsor's original contraindications statements are consistent with known contraindications for stimulant medications drugs for treatment of ADHD and are similar to Aptensio XR labeling. Upon discussion with DPP the following text is suggested for conformance with current labeling guidance,⁶ and is acceptable.

- Hypersensitivity to Methylphenidate or other Components of <TRADENAME>. Hypersensitivity reactions such as angioedema and anaphylactic reactions have been reported in patients treated with other methylphenidate products [see Adverse Reactions (6.2)].
- Concomitant treatment with monoamine oxidase inhibitors (MAOIs), and also within 14 days following discontinuation of treatment with a monoamine oxidase inhibitor (MAOI), because of the risk of hypertensive crisis [see Drug Interactions (7.1)].

5. Warnings and Precautions

<u>Reviewer comment</u>: This section of labeling has been reviewed in its entirety and is similar to labeling for Aptensio XR and other recently approved stimulant medication drugs for treatment of ADHD. Since DPMH has no substantive comments, the list of Warnings and Precautions is provided below; however the reader is directed to the final negotiated labeling (pending) for the text of the individual Warnings and Precautions.

5.1 Potential for Abuse and Dependence

- 5.2 Serious Cardiovascular Reactions
- 5.3 Blood Pressure and Heart Rate Increases
- 5.4 Psychiatric Adverse Reactions
- 5.5 Priapism
- 5.6 Peripheral Vasculopathy, including Raynaud's Phenomenon
- 5.7 Long-term Suppression of Growth

<u>Reviewer comment</u>: Pursuant to internal discussions after the labeling meeting of July 25, 2015, DPP and Clinical Pharmacology determined that presence of phenylalanine (PHE) in the formulation necessitated the following new warning for patients with phenylketonuria ((PKU) which appears consistent with labeling for at least some other PHE containing products (e.g., Augmentin ER-600, NDA 50,755; March 16, 2015).

5.8 Risk in Patients with Phenylketonuria

Phenylalanine can be harmful to patients with phenylketonuria (PKU). <TRADENAME> extended-release chewable tablets contains phenylalanine, a component of aspartame.

⁶ Guidance for Industry: Warnings and Precautions, Contraindications, and Boxed Warning Sections of Labeling for Human Prescription Drug and Biological Products – Content and Format.

NDA: 207,960 Methylphenidate ((b) (4)	Division of Pediatric and Materr	al Health Consult October, 2015
Each 20 mg <trade phenylalanine.</trade 	NAME>	extended-release chewable tablet contains	(b) (4) (b) (4)

8.4 Pediatric Use

Proposed

The safety and effectiveness of <TRADENAME> patients

Long-term effectiveness of <TRADENAME> has not established [see Clinical Pharmacology (12) and Clinical Studies (14)].

Long Term Suppression of Growth

Growth should be monitored during treatment with CNS stimulants, including <TRADENAME>. (b) (4) who are not growing or gaining weight as expected may need to have their treatment interrupted [see Warnings and Precautions (5.7)].

Juvenile Animal Data

Rats treated with methylphenidate early in the postnatal period through sexual maturation demonstrated a decrease in spontaneous locomotor activity in adulthood. A deficit in acquisition of a specific learning task was observed in females only. The doses at which these findings were observed are at least 6 times the maximum recommended human dose (MRHD) on a mg/m² basis.

In the study conducted in young rats, methylphenidate was administered orally at doses of up to 100 mg/kg/day for 9 weeks, starting early in the postnatal period (postnatal day 7) and continuing through sexual maturity (postnatal week 10). When these animals were tested as adults (postnatal weeks 13-14), decreased spontaneous locomotor activity was observed in males and females previously treated with 50 mg/kg/day (approximately 6 times the maximum recommended human dose [MRHD] on a mg/m² basis) or greater, and a deficit in the acquisition of a specific learning task was observed in females exposed to the highest dose (12 times the MRHD on a mg/m² basis). The no effect level for juvenile neurobehavioral development in rats was 5 mg/kg/day (half the MRHD on a mg/m² basis). The clinical significance of the long-term behavioral effects observed in rats is unknown.

<u>Reviewer comment</u>: The description of long-term suppression of growth and animal toxicology are similar to other recently approved stimulant medications for treatment of ADHD; however the following revision is recommended for the introductory section of 8.4 for consistency across the drug class.

in pediatric

The safety and effectiveness of <TRADENAME> in pediatric patients under six years have not been evaluated.

The safety and effectiveness of <TRADENAME> have been established in pediatric patients ages 6 to 17 years. Use of TRADENAME in these age groups is based on one adequate and well-controlled clinical study in pediatric patients 6 to 12 years old, pharmacokinetic data in adolescents and adults, and safety information from other methylphenidate-containing products

Long-term effectiveness of <TRADENAME> has not established [*see Clinical Pharmacology (12) and Clinical Studies (14)*].

Conclusions and Recommendations

The above recommendations were discussed with the labeling review team at the first labeling meeting July 15, 2015. DPMH will continue to participate in labeling negotiations and the reader is directed to final negotiated labeling which may include changes not reflected in this document.

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/s/

ETHAN D HAUSMAN 10/13/2015

HARI C SACHS 10/16/2015 I agree with these recommendations.

LINDA L LEWIS 10/16/2015

LABELS AND LABELING REVIEW

Division of Medication Error Prevention and Analysis (DMEPA) Office of Medication Error Prevention and Risk Management (OMEPRM) Office of Surveillance and Epidemiology (OSE) Center for Drug Evaluation and Research (CDER)

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

Date of This Review:	July 14, 2015
Requesting Office or Division:	Division of Psychiatry Products (DPP)
Application Type and Number:	NDA 207960
Product Name and Strength:	Methylphenidate HCl Extended-release Chewable Tablets 20 mg, 30 mg and 40 mg
Product Type:	Single Ingredient Product
Rx or OTC:	Rx
Applicant/Sponsor Name:	Pfizer Inc.
Submission Date:	February 4, 2015
OSE RCM #:	2015-892
DMEPA Primary Reviewer:	Loretta Holmes, BSN, PharmD
DMEPA Team Leader:	Danielle Harris, PharmD, BCPS

1 REASON FOR REVIEW

The Division of Psychiatry Products asked the Division of Medication Error Prevention and Analysis to review the container labels, prescribing information (PI) and Medication Guide (MG) for Methylphenidate Hydrochloride Extended-release Chewable Tablets (NDA 207960) to determine if they can contribute to confusion that can lead to medication errors. This is a 505(b)(2) application and the referenced drug is Methylin (methylphenidate hydrochloride) Chewable Tablets (NDA 021475).

2 MATERIALS REVIEWED

We considered the materials listed in Table 1 for this review. The Appendices provide the methods and results for each material reviewed.

Table 1. Materials Considered for this Label and Labeling Review		
Material Reviewed	Appendix Section (for Methods and Results)	
Product Information/Prescribing Information	A	
Previous DMEPA Reviews	B (N/A)	
Human Factors Study	C (N/A)	
ISMP Newsletters	D (N/A)	
FDA Adverse Event Reporting System (FAERS)*	E (NDA)	
Other	F (N/A)	
Labels and Labeling	G	

N/A=not applicable for this review

*We do not typically search FAERS for label and labeling reviews unless we are aware of medication errors through our routine postmarket safety surveillance

3 OVERALL ASSESSMENT OF THE MATERIALS REVIEWED

Our review of the proposed labeling (PI and MG) did not identify any areas of vulnerability from a medication error perspective. However, our review of the container labels noted there is an area where the Medication Guide (MG) statement can be clarified by stating how the MGs are provided [in accordance with 21 CFR 208.24(d)].

We note that the product contains phenylalanine and the principal display panel of the labels has a statement regarding the amount of phenylalanine in each tablet. We defer to the Office of Pharmaceutical Quality (OPQ) to evaluate the presentation of the statement.

4 CONCLUSION & RECOMMENDATIONS

We conclude that the proposed labeling (PI and MG) is acceptable from a medication error perspective. However, we have identified an area of needed improvement in the MG statement on the container labels and provide recommendations for Pfizer in Section 4.1.

4.1 RECOMMENDATIONS FOR PFIZER INC.

We recommend the following be implemented prior to approval of this NDA.

- A. All Container Labels
 - The Medication Guide (MG) statement does not state how the MGs are provided [see 21 CFR 208.24(d)]. We recommend the following (or similar) language, dependent upon how the MG is supplied:

Attention Pharmacist: Dispense (b) (4) accompanying Medication Guide (b) (4)

2. Ensure that a sufficient number of MGs are provided with each bottle, given that multiple prescriptions can be filled from a single bottle.

APPENDICES: METHODS & RESULTS FOR EACH MATERIALS REVIEWED

APPENDIX A. PRODUCT INFORMATION/PRESCRIBING INFORMATION

Table 2 presents relevant product information for Methylphenidate Hydrochloride Extended-release Chewable Tablets that Pfizer submitted on February 4, 2015.

Table 2. Relevant Product Infor Chewable Tablets	mation for Methylphenidate Hydrochloride Extended-release
Initial Approval Date	N/A
Active Ingredient	Methylphenidate Hydrochloride
Indication	Treatment of Attention Deficit Hyperactivity Disorder (ADHD)
Route of Administration	Oral
Dosage Form	Extended-release Chewable Tablets
Strengths	20 mg, 30 mg and 40 mg
Dose and Frequency	For patients 6 years and above (including adolescents and adults), the recommended starting dose is 20 mg given orally once daily in the morning
How Supplied	100-count bottles The 20 mg and 30 mg extended-release chewable tablets are scored (bisected) and can be divided into equal halves for dose adjustments.
Storage	Store at 25°C (77°F); excursions permitted from 15°C to 30°C (59°F to 86°F).
Container Closure	Information not available

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/s/

LORETTA HOLMES 07/14/2015

DANIELLE M HARRIS 07/14/2015

505(b)(2) ASSESSMENT

Application Information				
NDA # 207960	NDA Supplement #:	S-	Efficacy Supplement Type SE-	
Proprietary Name: N/A				
Established/Proper Nam	e: Methylphenidate			
Dosage Form: Extended	I-Release Chewable Ta	ablets		
Strengths: 20 mg, 30 mg and 40 mg				
Applicant: Pfizer Inc.				
Date of Receipt: February 4, 2015				
PDUFA Goal Date: Dec	ember 4, 2015	Action	Goal Date (if different):	
RPM: Hiren Patel, Pharm	nD			
Proposed Indication(s): Attention Deficit Hyperactivity Disorder				

GENERAL INFORMATION

1) Is this application for a recombinant or biologically-derived product and/or protein or peptide product *OR* is the applicant relying on a recombinant or biologically-derived product and/or protein or peptide product to support approval of the proposed product?

YES NO 🔀

If "YES "contact the (b)(2) review staff in the Immediate Office, Office of New Drugs.

INFORMATION PROVIDED VIA RELIANCE (LISTED DRUG OR LITERATURE)

2) List the information essential to the approval of the proposed drug that is provided by reliance on our previous finding of safety and efficacy for a listed drug by reliance on published literature, or by reliance on a final OTC monograph. *(If not clearly identified by the applicant, this information can usually be derived from annotated labeling.)*

Source of information* (e.g., published literature, name of listed drug(s), OTC final drug monograph)	Information relied-upon (e.g., specific sections of the application or labeling)
NDA 21475 Methylin	<u>Clinical Pharmacology, Clinical,</u> <u>Nonclinical</u>

*each source of information should be listed on separate rows, however individual literature articles should not be listed separately

3) The bridge in a 505(b)(2) application is information to demonstrate sufficient similarity between the proposed product and the listed drug(s) or to justify reliance on information described in published literature for approval of the 505(b)(2) product. Describe in detail how the applicant bridged the proposed product to the listed drug(s) and/or published literature¹. See also Guidance for Industry Providing Clinical Evidence of Effectiveness for Human Drug and Biological Products.

Pfizer conducted a study entitled, "A Three-Way Crossover Relative Bioavailability Study Comparing Methylphenidate HCl Extended-Release Chewable Tablets and METHYLIN Chewable Tablets under Fasting Conditions and Determining the Effect of Food on 40 mg Methylphenidate ER Chewable Tablets."

RELIANCE ON PUBLISHED LITERATURE

4) (a) Regardless of whether the applicant has explicitly stated a reliance on published literature to support their application, is reliance on published literature necessary to support the approval of the proposed drug product (i.e., the application *cannot* be approved as labeled without the published literature)?

YES		NO	\boxtimes
If "NO, " proce	eed to	question	#5.

(b) Does any of the published literature necessary to support approval identify a specific (e.g., brand name) *listed* drug product?

YES] NO [
-----	--------

If "NO", proceed to question #5.

Page 2

If "**YES**", list the listed drug(s) identified by name and answer question #4(c).

(c) Are the drug product(s) listed in (b) identified by the applicant a	s the l	isted d	lrug(s)?
	YES		NO

¹For 505(b)(2) applications that rely on a listed drug(s), bridging studies are often BA/BE studies comparing the proposed product to the listed drug(s). Other examples include: comparative physicochemical tests and bioassay; preclinical data (which may include bridging toxicology studies); pharmacokinetic/pharmacodynamic (PK/PD) data; and clinical data (which may include immunogenicity studies). A bridge may also be a scientific rationale that there is an adequate basis for reliance upon FDA's finding of safety and effectiveness of the listed drug(s) For 505(b)(2) applications that rely upon literature, the bridge is an explanation of how the literature is scientifically sound and relevant to the approval of the proposed 505(b)(2) product

RELIANCE ON LISTED DRUG(S)

Reliance on published literature which identifies a specific approved (listed) drug constitutes reliance on that listed drug. Please answer questions #5-9 accordingly.

5) Regardless of whether the applicant has explicitly cited reliance on listed drug(s), does the application **rely** on the finding of safety and effectiveness for one or more listed drugs (approved drugs) to support the approval of the proposed drug product (i.e., the application cannot be approved without this reliance)?

YES \boxtimes NO \square If "NO," proceed to question #10.

6) Name of listed drug(s) relied upon, and the NDA #(s). Please indicate if the applicant explicitly identified the product as being relied upon (see note below):

Name of Listed Drug	NDA #	Did applicant specify reliance on the product? (Y/N)
Methylin	21475	Yes

Applicants should specify reliance on the 356h, in the cover letter, and/or with their patent certification/statement. If you believe there is reliance on a listed product that has not been explicitly identified as such by the applicant, please contact the (b)(2) review staff in the Immediate Office, Office of New Drugs.

7) If this is a (b)(2) supplement to an original (b)(2) application, does the supplement rely upon the same listed drug(s) as the original (b)(2) application?

N/A \boxtimes YES \square NO \square If this application is a (b)(2) supplement to an original (b)(1) application or not a supplemental application, answer "N/A". If "NO", please contact the (b)(2) review staff in the Immediate Office, Office of New Drugs.

- 8) Were any of the listed drug(s) relied upon for this application:
 - a) Approved in a 505(b)(2) application?

YES \boxtimes NO \square If "**YES**", please list which drug(s).

Name of drug(s) approved in a 505(b)(2) application: Methylin

b) Approved by the DESI process?

YE	S 🗌] NC	\supset
If " YES ", pla	ease lis	st which d	lrug(s).

Name of drug(s) approved via the DESI process:

c) Described in a final OTC drug monograph?

YES		NO	\boxtimes
If "YES", please	list which	ı drug	<i>(s)</i> .

Name of drug(s) described in a final OTC drug monograph:

d) Discontinued from marketing?

YES NO X If "**YES**", please list which drug(s) and answer question d) i. below. If "**NO**", proceed to question #9. Name of drug(s) discontinued from marketing:

i) Were the products discontinued for reasons related to safety or effectiveness? YES NO (Information regarding whether a drug has been discontinued from marketing for reasons of safety or effectiveness may be available in the Orange Book. Refer to section 1.11 for an explanation, and section 6.1 for the list of discontinued drugs. If a determination of the reason for discontinuation has not been published in the Federal Register (and noted in the Orange Book), you will need to research the

9) Describe the change from the listed drug(s) relied upon to support this (b)(2) application (for example, "This application provides for a new indication, otitis media" or "This application provides for a change in dosage form, from capsule to solution").

archive file and/or consult with the review team. Do not rely solely on any

This application provides for different strengths and dosing regimen.

statements made by the sponsor.)

The purpose of the following two questions is to determine if there is an approved drug product that is equivalent or very similar to the product proposed for approval that should be referenced as a listed drug in the pending application.

The assessment of pharmaceutical equivalence for a recombinant or biologically-derived product and/or protein or peptide product is complex. If you answered **YES to question #1**, proceed to question #12; if you answered **NO to question #1**, proceed to question #10 below.

10) (a) Is there a pharmaceutical equivalent(s) to the product proposed in the 505(b)(2) application that is already approved (via an NDA or ANDA)?

(Pharmaceutical equivalents are drug products in identical dosage forms intended for the same route of administration that: (1) contain identical amounts of the identical active drug ingredient, i.e., the same salt or ester of the same therapeutic moiety, or, in the case of modified release dosage forms that require a reservoir or overage or such forms as prefilled syringes where residual volume may vary, that deliver identical amounts of the active drug ingredient over the identical dosing period; (2) do not necessarily contain the same inactive ingredients; and (3) meet the identical compendial or other applicable standard of identity, strength, quality, and purity, including potency and, where applicable, content uniformity, disintegration times, and/or dissolution rates. (21 CFR 320.1(c), FDA's "Approved Drug Products with Therapeutic Equivalence Evaluations" (the Orange Book)).

Note that for proposed combinations of one or more previously approved drugs, a pharmaceutical equivalent must also be a combination of the same drugs.



If "NO" to (a) proceed to question #11.

If "YES" to (a), answer (b) and (c) then proceed to question #12.

(b) Is the pharmaceutical equivalent approved for the same indication for which the 505(b)(2) application is seeking approval?

YES	NO	

(c) Is the listed drug(s) referenced by the application a pharmaceutical equivalent? N/A \square YES \square NO \square

If this application relies only on non product-specific published literature, answer "N/A" If "**YES**" to (c) <u>and</u> there are no additional pharmaceutical equivalents listed, proceed to question #12.

If "**NO**" <u>or</u> if there are additional pharmaceutical equivalents that are not referenced by the application, list the NDA pharmaceutical equivalent(s); you do <u>not</u> have to individually list all of the products approved as ANDAs, but please note below if approved approved generics are listed in the Orange Book. Please also contact the (b)(2) review staff in the Immediate Office, Office of New Drugs.

Pharmaceutical equivalent(s):

11) (a) Is there a pharmaceutical alternative(s) already approved (via an NDA or ANDA)?

(Pharmaceutical alternatives are drug products that contain the identical therapeutic moiety, or its precursor, but not necessarily in the same amount or dosage form or as the same salt or ester. Each such drug product individually meets either the identical or its own respective compendial or other applicable standard of identity, strength, quality, and purity, including potency and, where applicable, content uniformity, disintegration times and/or dissolution rates. (21 CFR 320.1(d)) Different dosage forms and strengths within a product line by a single manufacturer are thus pharmaceutical alternatives, as are extended-release products when compared with immediate- or standard-release formulations of the same active ingredient.)

Note that for proposed combinations of one or more previously approved drugs, a pharmaceutical alternative must also be a combination of the same drugs.

YES	\boxtimes	NO	
f " NO ", proc	eed to	question	<i>#12</i> .

(b) Is the pharmaceutical alternative approved for the same indication for which the 505(b)(2) application is seeking approval?

YES	\boxtimes	NO	
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(c) Is the approved pharmaceutical alternative(s) referenced as the listed drug(s)? N/A \square YES \bowtie NO

If this application relies only on non product-specific published literature, answer "N/A" If "YES" <u>and</u> there are no additional pharmaceutical alternatives listed, proceed to question #12.

If "**NO**" <u>or</u> if there are additional pharmaceutical alternatives that are not referenced by the application, list the NDA pharmaceutical alternative(s); you do <u>not</u> have to individually list all of the products approved as ANDAs, but please note below if approved generics are listed in

the Orange Book. Please also contact the (b)(2) review staff in the Immediate Office, Office of New Drugs.

Pharmaceutical alternative(s): Daytrana Transdermal patches, Ritalin tablets (generic available), Ritalin LA capsules, Ritalin SR tablets (generic available), Metadate CD capsules, Metadate ER tablets (generic available), Methylin ER tablets (generic available), Methylin Chewable tablets (generic available), ^{(b) (4)} Quillivant XR

PATENT CERTIFICATION/STATEMENTS

12) List the patent numbers of all unexpired patents listed in the Orange Book for the listed drug(s) for which our finding of safety and effectiveness is relied upon to support approval of the (b)(2) product.

Listed drug/Patent number(s):

No patents listed \boxtimes proceed to question #14

13) Did the applicant address (with an appropriate certification or statement) all of the unexpired patents listed in the Orange Book for the listed drug(s) relied upon to support approval of the (b)(2) product?

							YES	\bigtriangleup	NO	
If "N O ",	list which	patents (and which	listed	drugs)	were not	addresse	ed by	the applic	cant.

Listed drug/Patent number(s):

- 14) Which of the following patent certifications does the application contain? (*Check all that apply <u>and</u> identify the patents to which each type of certification was made, as appropriate.*)
 - No patent certifications are required (e.g., because application is based solely on published literature that does not cite a specific innovator product)
 - □ 21 CFR 314.50(i)(1)(i)(A)(1): The patent information has not been submitted to FDA. (Paragraph I certification)
 - \square 21 CFR 314.50(i)(1)(i)(A)(2): The patent has expired. (Paragraph II certification)

Patent number(s):

 \square 21 CFR 314.50(i)(1)(i)(A)(3): The date on which the patent will expire. (Paragraph III certification)

Patent number(s):

Expiry date(s):

21 CFR 314.50(i)(1)(i)(A)(4): The patent is invalid, unenforceable, or will not be infringed by the manufacture, use, or sale of the drug product for which the application is submitted. (Paragraph IV certification). *If Paragraph IV certification was submitted, proceed to question #15.*

21 CFR 314.50(i)(3): Statement that applicant has a licensing agreement with the
NDA holder/patent owner (must also submit certification under 21 CFR
314.50(i)(1)(i)(A)(4) above). If the applicant has a licensing agreement with the
NDA holder/patent owner, proceed to question #15.

- \boxtimes 21 CFR 314.50(i)(1)(ii): No relevant patents.
- ☐ 21 CFR 314.50(i)(1)(iii): The patent on the listed drug is a method of use patent and the labeling for the drug product for which the applicant is seeking approval does not include any indications that are covered by the use patent as described in the corresponding use code in the Orange Book. Applicant must provide a statement that the method of use patent does not claim any of the proposed indications. (Section viii statement)

Patent number(s): Method(s) of Use/Code(s):

- 15) Complete the following checklist *ONLY* for applications containing Paragraph IV certification and/or applications in which the applicant and patent holder have a licensing agreement:
 - (a) Patent number(s):
 - (b) Did the applicant submit a signed certification stating that the NDA holder and patent owner(s) were notified that this b(2) application was filed [21 CFR 314.52(b)]? YES NO NO

If "NO" plage.	contact the applicant	and request the	signad	contification
$I \mid I \cup I \cup I$, pieuse	contact the applicant	unu request the	signeu	

(c) Did the applicant submit documentation showing that the NDA holder and patent owner(s) received the notification [21 CFR 314.52(e)]? This is generally provided in the form of a registered mail receipt.

	YES		NO L	
If "NO", please contact the applicant of	and request i	the d	ocumentatio	n.

(d) What is/are the date(s) on the registered mail receipt(s) (i.e., the date(s) the NDA holder and patent owner(s) received notification):

Date(s):

Note, the date(s) entered should be the date the notification occurred (i.e., delivery date(s)), not the date of the submission in which proof of notification was provided

(e) Has the applicant been sued for patent infringement within 45-days of receipt of the notification listed above?

Note that you may need to call the applicant (after 45 days of receipt of the notification) to verify this information **UNLESS** the applicant provided a written statement from the notified patent owner(s) that it consents to an immediate effective date of approval.

YES NO Patent owner(s) consent(s) to an immediate effective date of

approval

APPEARS THIS WAY ON ORIGINAL

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

HIREN PATEL 12/04/2015

MITCHELL V Mathis 12/04/2015

RPM FILING REVIEW

(Including Memo of Filing Meeting) To be completed for all new NDAs, BLAs, and Efficacy Supplements [except SE8 (labeling change with clinical data) and SE9 (manufacturing change with clinical data]

	Applica	tion Information	tion	
NDA # 207960	NDA Supplement #	#: S-	Efficacy Supplement Category:	
BLA#	BLA Supplement #	ŧ: S-	New Indication (SE1)	
			New Dosing Regimen (SE2)	
			New Route Of Administration (SE3)	
			Comparative Efficacy Claim (SE4)	
			New Patient Population (SE5)	
			Rx To OTC Switch (SE6)	
			Accelerated Approval Confirmatory Study	
			Animal Rule Confirmatory Study (SE7)	
			Labeling Change With Clinical Data (SE8)	
			Manufacturing Change With Clinical Data (SE9)	
Proprietary Name: N/A				
Established/Proper Name:	Methylphenidate HO	21		
Dosage Form: Extended-R				
Strengths: 20 mg, 30 mg an				
Applicant: Pfizer Inc.				
Agent for Applicant (if app	licable):			
Date of Application: 2/4/20				
Date of Receipt: 2/4/2015				
Date clock started after UN	:			
PDUFA/BsUFA Goal Date	:	Action Goal D	ate (if different):	
December 4, 2014				
Filing Date: April 5, 2015		Date of Filing	Meeting: March 19, 2015	
Chemical Classification (or	· · · ·			
Type 1- New Molecular E				
	dient; New Active Ing	redient and New I	Dosage Form; New Active Ingredient and New	
Combination			-4	
Type 3- New Dosage Form	-	and New Combina	ation	
Type 5- New Formulation				
Type 7- Drug Already Ma				
		CUNDA		
Type 8- Partial Rx to OTC Switch Proposed indication(s)/Proposed change(s): Attention Deficit Hyperactivity Disorder				
rioposed mulcation(3)/110	osed enange(s). The	ention Denen II	speractivity Disorder	
Type of Original NDA:			505(b)(1)	
AND (if applicable)		505(b)(2)	
Type of NDA Supplement:	-		505(b)(1)	
			505(b)(2)	
If 505(b)(2): Draft the "505(b				
http://inside.fda.gov:9003/CDER/Of	nceofNewDrugs/Immediate	<u> Office/UCM027499.</u>		

Type of BLA			351(a)			
		35	1(k)			
If 351(k), notify the OND Therapeutic Biol	ogics and Biosimilars Team	m			1	
Review Classification:				tandard	L	
The application will be a priority review if:				riority		
 A complete response to a pediatric 	Writton Daguast (WD) was				N/D	
included (a partial response to a W	-			ediatric	WK	
the labeling should also be a prior				IDP		
• The product is a Qualified Infection	•				Disease Priority	
• A Tropical Disease Priority Review		·		w Vouc		
• A Pediatric Rare Disease Priority		itted		w Vouc	Rare Disease Priority	
Resubmission after withdrawal?	Resubmis					
Part 3 Combination Product?	Convenience kit/Co-pa					
	Pre-filled drug delivery	<u> </u>	e/syst	em (svi	inge patch etc.)	
If yes, contact the Office of	Pre-filled biologic deli		-			
Combination Products (OCP) and copy	Device coated/impregr					
them on all Inter-Center consults	Device coated/impregr				0	
	Separate products requ					
	Drug/Biologic	und c	1055-10			
	Possible combination b	based o	n cros	s-label	ing of separate	
	oroducts	oused o	in cros	5 Idoel	ing of separate	
1	Other (drug/device/bio	ological	produ	ict)		
		orogrean	produ			
 Fast Track Designation Breakthrough Therapy Designation (set the submission property in DARRTS and notify the CDER Breakthrough Therapy Program Manager) Rolling Review Orphan Designation PREA deferred pediatric studies (FDCA Section 505B) Accelerated approval confirmatory studies (21 CFR 314.510/21 CFR 601.41) Animal rule postmarketing studies to verify clinical 					ry studies (21 CFR	
Rx-to-OTC switch, Full Rx-to-OTC switch, Partial Direct-to-OTC	benefit and safety	y (21 C	FR 31	4.610/2	21 CFR 601.42)	
Other:						
Collaborative Review Division (if OTC)	product):					
List referenced IND Number(s): 111020)					
Goal Dates/Product Names/Classification Properties YES				NA	Comment	
Goal Dates/Product Names/Classification PropertiesYESNONAConPDUFA/BsUFA and Action Goal dates correct in tracking system?IIII						
If no, ask the document room staff to corre	ct them immediately.					
These are the dates used for calculating ins	pection dates.					
	Are the established/proper and applicant names correct in					
tracking system?						
	If no, ask the document room staff to make the corrections. Also, ask the document room staff to add the established/proper name					

Version: 12/09/2014

System. System. Is the review priority (S or P) and all appropriate Image: System (e.g., chemical classification, combination product classification, orphan drug?) Check the New Application and New Supplement Image: System (e.g., chemical classification, combination product classification, orphan drug?) Check the New Application and New Supplement Notification Checklists for a list of all classifications/properties Image: System (e.g., chemical classifications/properties at: Image: System (e.g., chemical classifications) Image: System (e.g., chemical classification checklists for a list of all classifications/properties at: Image: System (e.g., chemical classifications) Image: System (e.g., chemical classification) May: Image: System (e.g., chemical classification) Image: System (e.g., chemical classification) Not in arrears If no, ask the document room staff to make the appropriate Image: System (e.g., chemical classification) If no, ask the document room staff to make the appropriate Image: System (e.g., chemical classification) Image: System (e.g., chemical classification) If no, ask the document room staff to make the appropriate If an asset for a list of all classification is for an asset for the splication is for an strence of the or strence of the or strence of the strence of the or strence ore strence or strence of the or strence or strence of	·	ing				
Application Integrity Policy YES NO NA Comment Is the application affected by the Application Integrity Policy (AIP)? Check the AIP list at: http://www.fda.gov/ICEC/EnforcementActions/ApplicationIntegrityPolicy/default If affected by AIP, has OC/OMPQ been notified of the submission? If yes, date notified: X X User Fees YES NO NA Comment Is Form 3397 (User Fee Cover Sheet)/Form 3792 (Biosimilar User Fee Cover Sheet) included with authorized signature? YES NO NA Comment User Fee Status Payment for this application (check daily email from UserFeeAR(Qida.lhhs.gov): Paid SerFeeAR(Qida.lhhs.gov): Yes If a user fee is required and it has not been paid (and it is not exempted or waived), the application is unacceptable for filing following a 5-day grace period. Review stops. Send Unacceptable for Filing (UN) letter and contact user fee staff: Paid SerFeeAR(Qida.lhhs.gov): Paid If the firm is in arrears for other fees (regardless of whether a user fee has been paid for this application), the application is unacceptable for filing (5-day grace period does not apply). Review stops. Send UN tetter and contact the user fee staff: Payment of other user fees: In arrears Payment of other user fees: In arrears User Fee Bundling Policy Has the user fee bundling policy been appropriately<	classifications/properties entered into tracking system (e.g., chemical classification, combination product classification, orphan drug)? Check the New Application and New Supplement Notification Checklists for a list of all classifications/properties at: http://inside.fda.gov:9003/CDER/OfficeofBusinessProcessSupport/ucm163969.ht m If no, ask the document room staff to make the appropriate					
Is the application affected by the Application Integrity Policy (AIP)? Check the AIP list at: http://www.fda.gov/ICE/DEnforcementActions/ApplicationIntegrityPolicy/default If affected by AIP, has OC/OMPQ been notified of the submission? If yes, date notified: X If affected by AIP, has OC/OMPQ been notified of the submission? If yes, date notified: X User Fees YES NO NA Comment Srem 3397 (User Fee Cover Sheet)/Form 3792 (Biosimilar User Fee Cover Sheet) included with authorized signature? Payment for this application (check daily email from User Fee Status If a user fee is required and it has not been paid (and it is not exempted or waived), the application is unacceptable for filing following a 5-day grace period. Review stops. Send Unacceptable for Filing (UN) letter and contact user fee staff. Paid If the firm is in arrears for other fees (regardless of whether a user fee has been paid for this application), the application is unacceptable for filing (5-day grace period does not apply). Review stops. Send UN letter and contact the user fee staff. Not in arrears If the firm is in arrears for other fees (regardless of whether a user fee has been paid for this application), the application is unacceptable for filing (5-day grace period does not apply). Review stops. Send UN letter and contact the user fee staff. Not in arrears User Fee Bundling Policy Has the user fee bundling policy been appropriately	Application Integrity Policy		YES	NO	NA	Comment
If affected by AIP, has OC/OMPQ been notified of the submission? If yes, date notified: Image: Control of the submission? If yes, date notified: Image: Control of the submission? If yes, date notified: User Fees YES NO NA Comment Is Form 3397 (User Fee Cover Sheet)/Form 3792 (Biosimilar User Fee Cover Sheet) included with authorized signature? Image: Control of the submission? If yes, date notified of the submission? If yes, date notified: Image: Control of the submission? If yes, date notified: User Fees YES NO NA Comment Is Form 3397 (User Fee Cover Sheet)/Form 3792 (Biosimilar User Fee Cover Sheet) included with authorized signature? Image: Control of the submission? NA Comment User Fee Status Image: Control of the submission? Image: Control of the submission? Payment for this application is unacceptable for filing following a 5-day grace period. Review stops. Send Unacceptable for Filing (UN) letter and contact user fee staff. Paid Image: Control of the submission? Image: Control of the submission? Payment of other user fees: Image: Control of the submission? Image: Control of the submission application is unacceptable for filing (S-day grace period). <td colspan="2">Is the application affected by the Application Integrity Policy (AIP)? Check the AIP list at: http://www.fda.gov/ICECI/EnforcementActions/ApplicationIntegrityPolicy/default</td> <td></td> <td></td> <td></td> <td></td>	Is the application affected by the Application Integrity Policy (AIP)? Check the AIP list at: http://www.fda.gov/ICECI/EnforcementActions/ApplicationIntegrityPolicy/default					
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Is Form 3397 (User Fee Cover Sheet)/Form 3792 (Biosimilar User Fee Cover Sheet) included with authorized signature? Image: Cover Sheet) included with authorized signature? User Fee Status Payment for this application (check daily email from UserFeeAR@fda.hhs.gov): If a user fee is required and it has not been paid (and it is not exempted or waived), the application is unacceptable for filing following a 5-day grace period. Paid Review stops. Send Unacceptable for Filing (UN) letter and contact user fee staff. Paid If the firm is in arrears for other fees (regardless of whether a user fee has been paid for this application), the application is unacceptable for filing (5-day grace period does not apply). Review stops. Send UN letter and contact the user fee staff. Payment of other user fee staff. User Fee Bundling Policy Has the user fee bundling policy been appropriately	-		YES	NO	NA	Comment
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Refer to the guidance for industry, Submitting Separate Marketing Applications and Clinical Data for Purposes of Assessing User Fees at: http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulator yInformation/Guidances/UCM079320.pdf	unacceptable for filing following a 5-day grace period. Review stops. Send Unacceptable for Filing (UN) letter and contact user fee staff. If the firm is in arrears for other fees (regardless of whether a user fee has been paid for this application), the application is unacceptable for filing (5-day grace period does not apply). Review stops. Send UN letter	Exen	ved (e.g. required t of othe	, small r user f	busines	
505(b)(2) (NDAs/NDA Efficacy Supplements only)YESNONACommentIs the application a 505(b)(2) NDA? (Check the 356h form,Image: Check the 356h form,Image: Check the 356h form,Image: Check the 356h form,	 unacceptable for filing following a 5-day grace period. Review stops. Send Unacceptable for Filing (UN) letter and contact user fee staff. If the firm is in arrears for other fees (regardless of whether a user fee has been paid for this application), the application is unacceptable for filing (5-day grace period does not apply). Review stops. Send UN letter and contact the user fee staff. User Fee Bundling Policy Refer to the guidance for industry, Submitting Separate Marketing Applications and Clinical Data for Purposes of Assessing User Fees at: http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulator 	Exen Waiv Not i Payment Not i In art Has the applied? <i>Fee Staff</i>	ved (e.g. required t of othe in arrears rears user fee <i>If no, or</i>	, small r user f s bundlin	busines ees:	s, public health)

Version: 12/09/2014

<i>cover letter, and annotated l</i> questions below:	labeling). If yes, answe	r the bulleted					
	a duplicate of a listed d	ling and		\boxtimes			
	under section 505(j) as						
• Is the application for a	a duplicate of a listed d	lrug whose		\boxtimes			
only difference is that the extent to which the active							
ingredient(s) is absorbed or otherwise made available to							
the site of action is less than that of the reference listed							
drug (RLD)? [see 21 CFR 314.54(b)(1)].							
 Is the application for a duplicate of a listed drug whose 				\boxtimes			
only difference is that	t the rate at which the p	roposed					
product's active ingre	edient(s) is absorbed or	made					
available to the site of	f action is unintentional	lly less than					
that of the listed drug	[see 21 CFR 314.54(b)(2)]?					
If you answered yes to any o	of the above bulleted que	estions, the					
application may be refused	for filing under 21 CFR						
314.101(d)(9). Contact the 3		the Immediate					
Office of New Drugs for ad							
	clusivity on another list			\boxtimes			
· · · ·	e same active moiety (e	e.g., 5-year,					
3-year, orphan, or ped							
Check the Electronic Orang							
http://www.accessdata.fda.gov/scri	<u>ipts/cder/ob/default.cfm</u>						
If yes, please list below:							
If yes, please list below: Application No.	Drug Name	Exclusivity Co	ode	Excl	usivity	Expiration	1
	Drug Name	Exclusivity Co	ode	Excl	usivity	Expiration	
	Drug Name	Exclusivity Co	ode	Exc	usivity	Expiration	
	Drug Name	Exclusivity Co	ode	Excl	usivity	Expiration	
Application No.							e moiety,
Application No. If there is unexpired, 5-year a 505(b)(2) application cam	exclusivity remaining on not be submitted until the	another listed a period of exclus	lrug prod sivity exp	uct cont ires (uni	aining t	he same activ applicant pro	vides
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Application No. If there is unexpired, 5-year a 505(b)(2) application camparagraph IV patent certific Pediatric exclusivity will ext Unexpired, 3-year exclusivity Exclusivity	exclusivity remaining on not be submitted until the vation; then an application tend both of the timeframe ty may block the approval	another listed a period of exclus n can be submit es in this provisi l but not the sub	lrug prod sivity exp ted four y ion by 6 n mission o	uct cont ires (uni ears afte nonths. 1 f a 505(NO	aining t less the d er the dd 21 CFR b)(2) ap	he same activ applicant pro ate of approve 314.108(b)(2)	vides al.)).
Application No. If there is unexpired, 5-year a 505(b)(2) application camp paragraph IV patent certific Pediatric exclusivity will ext Unexpired, 3-year exclusivit Exclusivity Does another product (sample)	exclusivity remaining on not be submitted until the vation; then an application tend both of the timeframe ty may block the approval me active moiety) have	another listed a period of exclus n can be submit es in this provisi l but not the sub orphan	lrug prod sivity exp ted four y ion by 6 n mission o	uct cont ires (uni ears afte nonths. 1 f a 505(aining t less the d er the dd 21 CFR b)(2) ap	he same activ applicant pro ate of approva 314.108(b)(2) plication.	vides al.)).
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Application No. If there is unexpired, 5-year a 505(b)(2) application cam paragraph IV patent certific Pediatric exclusivity will ext Unexpired, 3-year exclusivity Exclusivity Does another product (sar exclusivity for the same in Designations and Approvals	exclusivity remaining on not be submitted until the vation; then an application tend both of the timeframe ty may block the approval me active moiety) have ndication? Check the On is list at:	another listed a period of exclus n can be submit es in this provisi l but not the sub orphan	lrug prod sivity exp ted four y ion by 6 n mission o	uct cont ires (uni ears afte nonths. 1 f a 505(NO	aining t less the d er the dd 21 CFR b)(2) ap	he same activ applicant pro ate of approva 314.108(b)(2) plication.	vides al.)).
Application No. If there is unexpired, 5-year a 505(b)(2) application camparagraph IV patent certific Pediatric exclusivity will ext Unexpired, 3-year exclusivity Exclusivity Does another product (same exclusivity for the same in Designations and Approvals http://www.accessdata.fda.gov/scription	exclusivity remaining on not be submitted until the ration; then an application tend both of the timeframe ty may block the approval me active moiety) have ndication? Check the Or is list at: ipts/opdlisting/oopd/index.cfm	another listed a period of exclus n can be submit es in this provisi l but not the sub orphan phan Drug	lrug prod sivity exp ted four y ion by 6 n mission o	uct cont ires (uni ears afte nonths. 1 f a 505(NO	aining t less the d 21 CFR b)(2) ap NA	he same activ applicant pro ate of approva 314.108(b)(2) plication.	vides al.)).
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Application No. If there is unexpired, 5-year a 505(b)(2) application cam paragraph IV patent certific Pediatric exclusivity will ext Unexpired, 3-year exclusivity Exclusivity Does another product (sar exclusivity for the same in Designations and Approvals http://www.accessdata.fda.gov/scrit If another product has of considered to be the same drug definition of samene If yes, consult the Director, Office of Regulatory Policy	exclusivity remaining on not be submitted until the ration; then an application tend both of the timeframe ty may block the approval me active moiety) have ndication? Check the Or is list at: ipts/opdlisting/oopd/index.cfm orphan exclusivity, is t product according to t ess [see 21 CFR 316.3(Division of Regulatory 1	another listed a period of exclus n can be submit es in this provisi l but not the sub orphan Drug the product he orphan b)(13)]?	lrug prod sivity exp ted four y ion by 6 n mission o YES	uct cont ires (uni ears afte nonths. 1 f a 505(NO	aining t less the d 21 CFR b)(2) ap NA	he same activ applicant pro ate of approva 314.108(b)(2) plication.	vides al.)).
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therefore, requesting exclusivity is not required.			
NDAs only : Is the proposed product a single enantiomer of a racemic drug previously approved for a different therapeutic use?	\boxtimes		
If yes, did the applicant: (a) elect to have the single enantiomer (contained as an active ingredient) not be considered the same active ingredient as that contained in an already approved racemic drug, and/or (b): request exclusivity pursuant to section 505(u) of the Act (per FDAAA Section 1113)?			
If yes, contact the Orange Book Staff (CDER-Orange Book Staff).			
BLAs only: Has the applicant requested 12-year exclusivity under section 351(k)(7) of the PHS Act?		\boxtimes	
If yes, notify Marlene Schultz-DePalo, OBP Biosimilars RPM			
<i>Note:</i> Exclusivity requests may be made for an original BLA submitted under Section 351(a) of the PHS Act (i.e., a biological reference product). A request may be located in Module 1.3.5.3 and/or other sections of the BLA and may be included in a supplement (or other correspondence) if exclusivity has not been previously requested in the original 351(a) BLA. An applicant can receive exclusivity without requesting it; therefore, requesting exclusivity is not required.			

Format and Content					
Do not check mixed submission if the only electronic component is the content of labeling (COL).	 All paper (except for COL) All electronic Mixed (paper/electronic) 				
		D n-CTD			
	Mixed (CTD/non-CTD)			-CTD)	
If mixed (paper/electronic) submission, which parts of the application are submitted in electronic format?					
Overall Format/Content	YES NO NA Comment			Comment	
If electronic submission, does it follow the eCTD guidance? ¹	\boxtimes				
If not, explain (e.g., waiver granted).					
Index: Does the submission contain an accurate comprehensive index?	\boxtimes				
Is the submission complete as required under 21 CFR 314.50 (NDAs/NDA efficacy supplements) or under 21 CFR 601.2 (BLAs/BLA efficacy supplements) including:	\boxtimes				

¹

http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/ucm072349.pdf

⊠ legible				
English (or translated into English)				
pagination				
navigable hyperlinks (electronic submissions only)				
If no, explain.				
BLAs only: Companion application received if a shared or			\boxtimes	
divided manufacturing arrangement?				
If yes, BLA #				
Forms and Certifications				
Electronic forms and certifications with electronic signatures (scann	ed, digita	l, or ele	ctronic	– similar to DARRTS,
e.g., /s/) are acceptable. Otherwise, paper forms and certifications w				
Forms include: user fee cover sheet (3397/3792), application form (3	356h), pa	tent info	rmation	i (3542a), financial
disclosure (3454/3455), and clinical trials (3674); Certifications incl	lude: deb	arment o	certifica	tion, patent
certification(s), field copy certification, and pediatric certification.				
Application Form	YES	NO	NA	Comment
Is form FDA 356h included with authorized signature per 21	\boxtimes			
CFR 314.50(a)?				
If foreign applicant, a U.S. agent must sign the form [see 21 CFR				
314.50(a)(5)].				
Are all establishments and their registration numbers listed	\boxtimes			
on the form/attached to the form?				
Patent Information	YES	NO	NA	Comment
(NDAs/NDA efficacy supplements only)				
Is patent information submitted on form FDA 3542a per 21	\boxtimes			
CFR 314.53(c)?				
				~
Dinanaial Disalaguna				Comment
Financial Disclosure	YES	NO	NA	Comment
Are financial disclosure forms FDA 3454 and/or 3455	YES		NA	Comment
Are financial disclosure forms FDA 3454 and/or 3455 included with authorized signature per 21 CFR 54.4(a)(1) and			NA	Comment
Are financial disclosure forms FDA 3454 and/or 3455			NA	Comment
Are financial disclosure forms FDA 3454 and/or 3455 included with authorized signature per 21 CFR 54.4(a)(1) and (3)?			NA	Comment
Are financial disclosure forms FDA 3454 and/or 3455 included with authorized signature per 21 CFR 54.4(a)(1) and (3)? Forms must be signed by the APPLICANT, not an Agent [see 21			NA	Comment
Are financial disclosure forms FDA 3454 and/or 3455 included with authorized signature per 21 CFR 54.4(a)(1) and (3)?			NA	Comment
Are financial disclosure forms FDA 3454 and/or 3455 included with authorized signature per 21 CFR 54.4(a)(1) and (3)? Forms must be signed by the APPLICANT, not an Agent [see 21 CFR 54.2(g)].			NA	
Are financial disclosure forms FDA 3454 and/or 3455 included with authorized signature per 21 CFR 54.4(a)(1) and (3)? Forms must be signed by the APPLICANT, not an Agent [see 21 CFR 54.2(g)]. Note: Financial disclosure is required for bioequivalence studies			NA	Comment
Are financial disclosure forms FDA 3454 and/or 3455 included with authorized signature per 21 CFR 54.4(a)(1) and (3)? Forms must be signed by the APPLICANT, not an Agent [see 21 CFR 54.2(g)]. Note: Financial disclosure is required for bioequivalence studies that are the basis for approval.				
Are financial disclosure forms FDA 3454 and/or 3455 included with authorized signature per 21 CFR 54.4(a)(1) and (3)? Forms must be signed by the APPLICANT, not an Agent [see 21 CFR 54.2(g)]. Note: Financial disclosure is required for bioequivalence studies that are the basis for approval. Clinical Trials Database	YES	NO 	NA	Comment
Are financial disclosure forms FDA 3454 and/or 3455 included with authorized signature per 21 CFR 54.4(a)(1) and (3)? Forms must be signed by the APPLICANT, not an Agent [see 21 CFR 54.2(g)]. Note: Financial disclosure is required for bioequivalence studies that are the basis for approval.				
Are financial disclosure forms FDA 3454 and/or 3455 included with authorized signature per 21 CFR 54.4(a)(1) and (3)? Forms must be signed by the APPLICANT, not an Agent [see 21 CFR 54.2(g)]. Note: Financial disclosure is required for bioequivalence studies that are the basis for approval. Clinical Trials Database Is form FDA 3674 included with authorized signature?	YES			
Are financial disclosure forms FDA 3454 and/or 3455 included with authorized signature per 21 CFR 54.4(a)(1) and (3)? Forms must be signed by the APPLICANT, not an Agent [see 21 CFR 54.2(g)]. Note: Financial disclosure is required for bioequivalence studies that are the basis for approval. Clinical Trials Database Is form FDA 3674 included with authorized signature? If yes, ensure that the application is also coded with the	YES			
Are financial disclosure forms FDA 3454 and/or 3455 included with authorized signature per 21 CFR 54.4(a)(1) and (3)? Forms must be signed by the APPLICANT, not an Agent [see 21 CFR 54.2(g)]. Note: Financial disclosure is required for bioequivalence studies that are the basis for approval. Clinical Trials Database Is form FDA 3674 included with authorized signature?	YES			

If no ansure that language requesting submission of the form in				
If no, ensure that language requesting submission of the form is included in the acknowledgement letter sent to the applicant				
Debarment Certification	YES	NO	NA	Comment
Is a correctly worded Debarment Certification included with	\boxtimes			
authorized signature?				
Certification is not required for supplements if submitted in the				
original application; If foreign applicant, <u>both</u> the applicant and the U.S. Agent must sign the certification [per Guidance for				
Industry: Submitting Debarment Certifications].				
2				
Note: Debarment Certification should use wording in FD&C Act				
Section 306(k)(1) i.e., "[Name of applicant] hereby certifies that it				
did not and will not use in any capacity the services of any person				
debarred under section 306 of the Federal Food, Drug, and Cosmetic Act in connection with this application." Applicant may				
not use wording such as, "To the best of my knowledge"				
Field Copy Certification	YES	NO	NA	Comment
(NDAs/NDA efficacy supplements only)				
For paper submissions only: Is a Field Copy Certification			\boxtimes	
(that it is a true copy of the CMC technical section) included?				
Field Copy Certification is not needed if there is no CMC				
technical section or if this is an electronic submission (the Field Office has access to the EDR)				
Office has access to the EDK)				
If maroon field copy jackets from foreign applicants are received,				
return them to CDR for delivery to the appropriate field office.				
Controlled Substance/Product with Abuse Potential	YES	NO	NA	Comment
For NMEs:	\boxtimes			
Is an Abuse Liability Assessment, including a proposal for				
scheduling, submitted per 21 CFR 314.50(d)(5)(vii)?				
If yes, date consult sent to the Controlled Substance Staff:				
For non-NMEs:				
Date of consult sent to Controlled Substance Staff:				
March 2, 2015				
Pediatrics	YES	NO	NA	Comment
PREA				
Does the application trigger PREA?	\boxtimes			
If yes, notify PeRC@fda.hhs.gov to schedule required PeRC				
meeting ²				
Note: NDAs/BLAs/efficacy supplements for new active ingredients				
TYDE . TYDAS/BLAS/ejjicucy supplements for new active ingreatents				

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http://inside_fda.gov:9003/CDER/OfficeofNewDrugs/ImmediateOffice/PediatricandMaternalHealthStaff/uc m027829 htm

(including new fixed combinations), new indications, new dosage forms, new dosing regimens, or new routes of administration trigger PREA. All waiver & deferral requests, pediatric plans, and				
pediatric assessment studies must be reviewed by PeRC prior to approval of the application/supplement.				
If the application triggers PREA, is there an agreed Initial Pediatric Study Plan (iPSP)? If no, may be an RTF issue - contact DPMH for advice.		\boxtimes		An agreed to iPSP was not required of Pfizer by DPP for this application.
If required by the agreed iPSP, are the pediatric studies outlined in the agreed iPSP completed and included in the application?			\boxtimes	
If no, may be an RTF issue - contact DPMH for advice. BPCA:				
Is this submission a complete response to a pediatric Written		\boxtimes		
Request?				
If yes, notify Pediatric Exclusivity Board RPM (pediatric exclusivity determination is required) ³				
Proprietary Name	YES	NO	NA	Comment
Is a proposed proprietary name submitted? If yes, ensure that the application is also coded with the supporting document category, "Proprietary Name/Request for Review."				
REMS	YES	NO	NA	Comment
Is a REMS submitted? If yes, send consult to OSE/DRISK and notify OC/ OSI/DSC/PMSB via the CDER OSI RMP mailbox				
Prescription Labeling		ot appli	cable	•
Check all types of labeling submitted.	 Package Insert (PI) Patient Package Insert (PPI) Instructions for Use (IFU) Medication Guide (MedGuide) Carton labels Immediate container labels Diluent Other (specify) 		Insert (PPI) Jse (IFU) le (MedGuide) iner labels	
	YES	NO	NA	Comment
Is Electronic Content of Labeling (COL) submitted in SPL format?	\boxtimes			
If no, request applicant to submit SPL before the filing date.				

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http://inside_fda.gov:9003/CDER/OfficeofNewDrugs/ImmediateOffice/PediatricandMaternalHealthStaff/uc m027837 htm

Is the PI submitted in PLR format? ⁴	\square			
If PI not submitted in PLR format, was a waiver or deferral requested before the application was received or in the submission? If requested before application was submitted, what is the status of the request?			\boxtimes	
If no waiver or deferral, request applicant to submit labeling in <i>PLR format before the filing date.</i>				
All labeling (PI, PPI, MedGuide, IFU, carton and immediate container labels) consulted to OPDP?	\boxtimes			
MedGuide, PPI, IFU (plus PI) consulted to OSE/DRISK? (send WORD version if available)	\boxtimes			
Carton and immediate container labels, PI, PPI sent to OSE/DMEPA and appropriate CMC review office (OBP or ONDQA)?				
OTC Labeling		ot Appl	icable	
Check all types of labeling submitted.	Imn Bli Bli Bli Cor Cor Phy Cor Ott	mediate ster car ster bac nsumer /sician nsumer ner (spe	d king la Inform sample sample cify)	ner label Ibel nation Leaflet (CIL) e
	YES	NO	NA	Comment
Is electronic content of labeling (COL) submitted? If no, request in 74-day letter.				
Are annotated specifications submitted for all stock keeping units (SKUs)?				
If no, request in 74-day letter. If representative labeling is submitted, are all represented SKUs defined?				
If no, request in 74-day letter.				
All labeling/packaging sent to OSE/DMEPA?				
Other Consults	YES	NO	NA	Comment
Are additional consults needed? (e.g., IFU to CDRH; QT study report to QT Interdisciplinary Review Team)		\boxtimes		
If yes, specify consult(s) and date(s) sent:				

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http://inside_fda.gov:9003/CDER/OfficeofNewDrugs/ImmediateOffice/StudyEndpointsandLabelingDevelopmentTeam/ucm025576 htm

End-of Phase 2 meeting(s)?		\boxtimes	
Date(s):			
If yes, distribute minutes before filing meeting			
Pre-NDA/Pre-BLA/Pre-Supplement meeting(s)?	\boxtimes		
Date(s): October 2, 2014			
If yes, distribute minutes before filing meeting			
Any Special Protocol Assessments (SPAs)?		\boxtimes	
Date(s):			
If yes, distribute letter and/or relevant minutes before filing meeting			

ATTACHMENT

MEMO OF FILING MEETING

DATE: 3/19/2015

BACKGROUND:

Pfizer submitted this NDA under section 505(b)(2) of the Act. The referenced drug for this application is Methylin 10 mg Chewable Tablets (NDA 21475). This applicant is seeking approval of an extended-release chewable tablet formulation of methylphenidate hydrochloride. This formulation was developed under IND 111020 and a Pre-NDA meeting was held on October 2, 2014.

REVIEW TEAM:

Discipline/Organization		Names	Present at filing meeting? (Y or N)
Regulatory Project Management	RPM:	Hiren Patel	Y
	CPMS/TL:		
Cross-Discipline Team Leader (CDTL)	Lucas Kemj	of	Y
Division Director/Deputy	Mitchell Ma	athis	Y
Office Director/Deputy			
Clinical	Reviewer:	Lucas Kempf	Y
	TL:	Christina Burkhart	Y
Social Scientist Review (for OTC products)	Reviewer:		
	TL:		
OTC Labeling Review (for OTC products)	Reviewer:		
	TL:		
Clinical Microbiology (for antimicrobial products)	Reviewer:		
	TL:		
Clinical Pharmacology	Reviewer:	Huixia Zhang	Y
	TL:	Hao Zhu	Y
Biostatistics	Reviewer:	George Kordzakhia	Y

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TL:	Peiling Yang	Y

Nonclinical (Pharmacology/Toxicology)	Reviewer:	Ikram Elayan	Y
(TL:	Linda Fossom	Y
Statistics (carcinogenicity)	Reviewer:		
	TL:		
Immunogenicity (assay/assay validation) (for protein/peptide products only)	Reviewer:		
	TL:		
Product Quality (CMC)	Reviewer:		
	TL:	David Claffey	Y
Biopharmaceutics	Reviewer		
	TL:		
Quality Microbiology	Reviewer:		
	TL:		
CMC Labeling Review	Reviewer:		
	TL:		
Facility Review/Inspection	Reviewer:	Steven Fong	Y
	TL:		
OSE/DMEPA (proprietary name, carton/container labels))	Reviewer:	Danielle Harris Deborah Myers	Y
	TL:		
OSE/DRISK (REMS)	Reviewer:		
	TL:		
OC/OSI/DSC/PMSB (REMS)	Reviewer:	Jenn Sellers	3/23/2015
	TL:		

Bioresearch Monitoring (OSI)	Reviewer:	
	TL:	
Controlled Substance Staff (CSS)	Reviewer:	
	TL:	
Other reviewers/disciplines	Reviewer:	
	TL:	
Other attendees	Ethan Hausman (PMHS)	

FILING MEETING DISCUSSION:

GENERAL • 505(b)(2) filing issues:	□ Not Applicable
 Is the application for a duplicate of a listed drug and eligible for approval under section 505(j) as an ANDA? 	☐ YES ⊠ NO
 Did the applicant provide a scientific "bridge" demonstrating the relationship between the proposed product and the referenced product(s)/published literature? 	XES D NO
Describe the scientific bridge (e.g., BA/BE studies):	Pfizer conducted a study entitled, "A Three-Way Crossover Relative Bioavailability Study Comparing Methylphenidate HCl Extended- Release Chewable Tablets and METHYLIN Chewable Tablets under Fasting Conditions and Determining the Effect of Food on 40 mg Methylphenidate ER Chewable Tablets."
• Per reviewers, are all parts in English or English translation?	⊠ YES □ NO
If no, explain:	
Electronic Submission comments	 ☐ Not Applicable ☑ No comments
List comments:	

CLINICAL	Not Applicable
	FILE FILE
	REFUSE TO FILE
Comments:	Review issues for 74-day letter
Clinical study site(s) inspections(s) needed?	YES
	□ NO
If no, explain:	
Advisory Committee Meeting needed?	☐ YES
	Date if known:
Comments:	NO NO
	To be determined
If no, for an NME NDA or original BLA, include the reason. For example:	Reason:
• this drug/biologic is not the first in its class	
• the clinical study design was acceptable	
• the application did not raise significant safety	
or efficacy issues	
• the application did not raise significant public health questions on the role of the	
drug/biologic in the diagnosis, cure,	
mitigation, treatment or prevention of a	
disease	
• If the application is affected by the AIP, has the	Not Applicable
division made a recommendation regarding whether	YES
or not an exception to the AIP should be granted to	
permit review based on medical necessity or public	
health significance?	
Comments:	
CONTROLLED SUBSTANCE STAFF	☐ Not Applicable ⊠ FILE
Abuse Liability/Potential	$\square REFUSE TO FILE$
Comments:	Review issues for 74-day letter
CLINICAL MICROBIOLOGY	Not Applicable
	FILE
	□ REFUSE TO FILE
Commenter	Deview issues for 74 deviation
Comments:	Review issues for 74-day letter
CLINICAL PHARMACOLOGY	Not Applicable
	FILE
	REFUSE TO FILE

Comments:	Review issues for 74-day letter
Clinical pharmacology study site(s) inspections(s) needed?	☐ YES ⊠ NO
BIOSTATISTICS	 Not Applicable FILE REFUSE TO FILE
Comments:	Review issues for 74-day letter
NONCLINICAL (PHARMACOLOGY/TOXICOLOGY)	 Not Applicable FILE REFUSE TO FILE
Comments:	Review issues for 74-day letter
IMMUNOGENICITY (protein/peptide products only)	 ☑ Not Applicable □ FILE □ REFUSE TO FILE
Comments:	Review issues for 74-day letter
PRODUCT QUALITY (CMC)	 □ Not Applicable ☑ FILE □ REFUSE TO FILE
Comments:	Review issues for 74-day letter
New Molecular Entity (NDAs only)	
• Is the product an NME?	\square YES \bowtie NO
Environmental Assessment	
• Categorical exclusion for environmental assessment (EA) requested?	⊠ YES □ NO
If no, was a complete EA submitted?	□ YES □ NO
If EA submitted, consulted to EA officer (OPS)?	⊠ YES □ NO
Comments:	
Quality Microbiology	Not Applicable

Version: 12/09/2014

• Was the Microbiology Team consulted for validation of sterilization?	YES NO
Comments:	
Comments.	
Facility Inspection	Not Applicable
• Establishment(s) ready for inspection?	☐ YES ☐ NO
 Establishment Evaluation Request (EER/TBP-EER) submitted to OMPQ? 	☐ YES ☐ NO
Comments:	
Facility/Microbiology Review (BLAs only)	 ➢ Not Applicable ☐ FILE ☐ REFUSE TO FILE
Comments:	Review issues for 74-day letter
CMC Labeling Review	
Comments:	
	Review issues for 74-day letter
APPLICATIONS IN THE PROGRAM (PDUFA V) (NME NDAs/Original BLAs)	N/A N/A
• Were there agreements made at the application's pre-submission meeting (and documented in the minutes) regarding certain late submission components that could be submitted within 30 days after receipt of the original application?	☐ YES ☐ NO
• If so, were the late submission components all submitted within 30 days?	☐ YES ☐ NO
• What late submission components, if any, arrived after 30 days?	

su	as the application otherwise complete upon bmission, including those applications where there	□ YES □ NO
	ere no agreements regarding late submission mponents?	
cli	a comprehensive and readily located list of all nical sites included or referenced in the	☐ YES ☐ NO
ap	plication?	
	a comprehensive and readily located list of all anufacturing facilities included or referenced in the	☐ YES ☐ NO
	plication?	
	REGULATORY PROJECT MA	ANAGEMENT
Signat	tory Authority: Mitchell Mathis (Division Director	:)
Date o	of Mid-Cycle Meeting (for NME NDAs/BLAs in "t	he Program" PDUFA V):
21 st Co option	entury Review Milestones (see attached) (listing real):	eview milestones in this document is
Comn	nents:	
	REGULATORY CONCLUSIONS	DEFICIENCIES
	The application is unsuitable for filing. Explain w	hy:
\boxtimes	The application, on its face, appears to be suitable	for filing.
	<u>Review Issues:</u>	
	\boxtimes No review issues have been identified for the 7	74-day letter.
	Review issues have been identified for the 74-	day letter.
	Review Classification:	
	Standard Review	
	Priority Review	
	ACTIONS ITEMS	5
\square	Ensure that any updates to the review priority (S o	r P) and classifications/properties are
	entered into tracking system (e.g., chemical classif	
	classification, orphan drug).	and a most OCE DM and Design (
	If RTF, notify everyone who already received a co	insuit request, USE PM, and Product

Quality PM (to cancel EER/TBP-EER).
If filed, and the application is under AIP, prepare a letter either granting (for signature by Center Director) or denying (for signature by ODE Director) an exception for review.
351(k) BLA/supplement: If filed, send filing notification letter on day 60
If priority review: • notify sponsor in writing by day 60 (see CST for choices) • notify OMPQ (so facility inspections can be scheduled earlier) Send review issues/no review issues by day 74
Conduct a PLR format labeling review and include labeling issues in the 74-day letter
Update the PDUFA V DARRTS page (for applications in the Program)
Other

Annual review of template by OND ADRAs completed: September 2014

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

HIREN PATEL 04/16/2015

REGULATORY PROJECT MANAGER PHYSICIAN'S LABELING RULE (PLR) FORMAT REVIEW OF THE PRESCRIBING INFORMATION

Complete for all new NDAs, BLAs, Efficacy Supplements, and PLR Conversion Labeling Supplements

Application: NDA 207960

Application Type: New NDA

Name of Drug/Dosage Form: methylphenidate hydrochloride extended-release chewable tablets

Applicant: Pfizer Inc.

Receipt Date: February 4, 2015

Goal Date: December 4, 2015

1. Regulatory History and Applicant's Main Proposals

Pfizer submitted this NDA under section 505(b)(2) of the Act. The referenced drug for this application is Methylin 10 mg Chewable Tablets (NDA 21475). This applicant is seeking approval of an extended-release chewable tablet formulation of methylphenidate hydrochloride. This formulation was developed under IND 111020 and a Pre-NDA meeting was held on October 2, 2014.

2. Review of the Prescribing Information

This review is based on the applicant's submitted Word format of the prescribing information (PI). The applicant's proposed PI was reviewed in accordance with the labeling format requirements listed in the "Selected Requirements for Prescribing Information (SRPI)" checklist (see the Appendix).

3. Conclusions/Recommendations

SRPI format deficiencies were identified in the review of this PI. For a list of these deficiencies see the Appendix.

All SRPI format deficiencies of the PI will be conveyed to the applicant in the 74-day letter. The applicant will be asked to correct these deficiencies and resubmit the PI in <u>Word format</u> by May 1, 2015. The resubmitted PI will be used for further labeling review.

Appendix

The Selected Requirement of Prescribing Information (SRPI) is a 42-item, drop-down checklist of important <u>format</u> elements of the prescribing information (PI) based on labeling regulations (21 CFR 201.56 and 201.57) and guidances.

Highlights

See Appendix A for a sample tool illustrating the format for the Highlights.

HIGHLIGHTS GENERAL FORMAT

YES 1. Highlights (HL) must be in a minimum of 8-point font and should be in two-column format, with ¹/₂ inch margins on all sides and between columns.

Comment:

NO 2. The length of HL must be one-half page or less unless a waiver has been granted in a previous submission. The HL Boxed Warning does not count against the one-half page requirement. Instructions to complete this item: If the length of the HL is one-half page or less, select "YES" in the drop-down menu because this item meets the requirement. However, if HL is longer than one-half page, select "NO" unless a waiver has been granted.

Comment:

YES 3. A horizontal line must separate HL from the Table of Contents (TOC). A horizontal line must separate the TOC from the FPI.

<u>Comment</u>:

YES 4. All headings in HL must be **bolded** and presented in the center of a horizontal line (each horizontal line should extend over the entire width of the column as shown in Appendix A). The headings should be in UPPER CASE letters.

Comment:

YES 5. White space should be present before each major heading in HL. There must be no white space between the HL Heading and HL Limitation Statement. There must be no white space between the product title and Initial U.S. Approval. See Appendix A for a sample tool illustrating white space in HL.

<u>Comment</u>:

YES 6. Each summarized statement or topic in HL must reference the section(s) or subsection(s) of the Full Prescribing Information (FPI) that contain more detailed information. The preferred format is the numerical identifier in parenthesis [e.g., (1.1)] at the end of each summarized statement or topic.

Comment:

YES 7. Section headings must be presented in the following order in HL:

Section	Required/Optional
Highlights Heading	Required
Highlights Limitation Statement	Required
Product Title	Required

Initial U.S. Approval	Required
Boxed Warning	Required if a BOXED WARNING is in the FPI
Recent Major Changes	Required for only certain changes to PI*
 Indications and Usage 	Required
Dosage and Administration	Required
 Dosage Forms and Strengths 	Required
Contraindications	Required (if no contraindications must state "None.")
 Warnings and Precautions 	Not required by regulation, but should be present
Adverse Reactions	Required
Drug Interactions	Optional
Use in Specific Populations	Optional
Patient Counseling Information Statement	Required
Revision Date	Required

* RMC only applies to the BOXED WARNING, INDICATIONS AND USAGE, DOSAGE AND ADMINISTRATION, CONTRAINDICATIONS, and WARNINGS AND PRECAUTIONS sections.

<u>Comment</u>:

HIGHLIGHTS DETAILS

Highlights Heading

 YES
 8. At the beginning of HL, the following heading must be **bolded** and should appear in all UPPER CASE letters: "HIGHLIGHTS OF PRESCRIBING INFORMATION". <u>Comment</u>:

Highlights Limitation Statement

YES
 9. The bolded HL Limitation Statement must include the following verbatim statement: "These highlights do not include all the information needed to use (insert name of drug product) safely and effectively. See full prescribing information for (insert name of drug product)." The name of drug product should appear in UPPER CASE letters.

Comment:

Product Title in Highlights

N/A 10. Product title must be **bolded**.

Comment:

Initial U.S. Approval in Highlights

YES 11. Initial U.S. Approval in HL must be **bolded**, and include the verbatim statement "Initial U.S. Approval:" followed by the 4-digit year.

Comment:

Boxed Warning (BW) in Highlights

YES 12. All text in the BW must be **bolded**.

Comment:

YES 13. The BW must have a heading in UPPER CASE, containing the word "WARNING" (even if more than one warning, the term, "WARNING" and not "WARNINGS" should be used) and other words to identify the subject of the warning (e.g., "WARNING: SERIOUS INFECTIONS and ACUTE HEPATIC FAILURE"). The BW heading should be centered.

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Comment:

YES 14. The BW must always have the verbatim statement "*See full prescribing information for complete boxed warning*." This statement should be centered immediately beneath the heading and appear in *italics*.

Comment:

YES 15. The BW must be limited in length to 20 lines (this includes white space but does not include the BW heading and the statement "*See full prescribing information for complete boxed warning.*").

Comment:

Recent Major Changes (RMC) in Highlights

 N/A 16. RMC pertains to only the following five sections of the FPI: BOXED WARNING, INDICATIONS AND USAGE, DOSAGE AND ADMINISTRATION, CONTRAINDICATIONS, and WARNINGS AND PRECAUTIONS. RMC must be listed in the same order in HL as the modified text appears in FPI.

Comment:

N/A
 17. The RMC must include the section heading(s) and, if appropriate, subsection heading(s) affected by the recent major change, together with each section's identifying number and date (month/year format) on which the change was incorporated in the PI (supplement approval date). For example, "Warnings and Precautions, Acute Liver Failure (5.1) --- 9/2013".

Comment:

N/A 18. The RMC must list changes for at least one year after the supplement is approved and must be removed at the first printing subsequent to one year (e.g., no listing should be one year older than revision date).

Comment:

Indications and Usage in Highlights

19. If a product belongs to an established pharmacologic class, the following statement is required under the Indications and Usage heading in HL: "(Product) is a (name of established pharmacologic class) indicated for (indication)".

<u>Comment</u>:

Dosage Forms and Strengths in Highlights

N/A 20. For a product that has several dosage forms (e.g., capsules, tablets, and injection), bulleted subheadings or tabular presentations of information should be used under the Dosage Forms and Strengths heading.

Comment:

Contraindications in Highlights

YES

YES

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21. All contraindications listed in the FPI must also be listed in HL or must include the statement "None" if no contraindications are known. Each contraindication should be bulleted when there is more than one contraindication.

Comment:

Adverse Reactions in Highlights

YES 22. For drug products other than vaccines, the verbatim **bolded** statement must be present: "To report SUSPECTED ADVERSE REACTIONS, contact (insert name of manufacturer) at (insert manufacturer's U.S. phone number) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch".

Comment:

Patient Counseling Information Statement in Highlights

YES 23. The Patient Counseling Information statement must include one of the following three **bolded** verbatim statements that is most applicable:

If a product does not have FDA-approved patient labeling:

• "See 17 for PATIENT COUNSELING INFORMATION"

If a product has FDA-approved patient labeling:

- "See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling"
- "See 17 for PATIENT COUNSELING INFORMATION and Medication Guide" <u>Comment</u>:

Revision Date in Highlights

YES 24. The revision date must be at the end of HL, and should be **bolded** and right justified (e.g., "**Revised: 9/2013**").

<u>Comment</u>:

Contents: Table of Contents (TOC)

See Appendix A for a sample tool illustrating the format for the Table of Contents.

YES 25. The TOC should be in a two-column format.

<u>Comment</u>:

YES 26. The following heading must appear at the beginning of the TOC: "FULL PRESCRIBING INFORMATION: CONTENTS". This heading should be in all UPPER CASE letters and bolded.

<u>Comment</u>:

YES 27. The same heading for the BW that appears in HL and the FPI must also appear at the beginning of the TOC in UPPER CASE letters and **bolded**.

<u>Comment</u>:

YES 28. In the TOC, all section headings must be **bolded** and should be in UPPER CASE.

<u>Comment</u>:

YES 29. In the TOC, all subsection headings must be indented and not bolded. The headings should be in title case [first letter of all words are capitalized except first letter of prepositions (through), articles (a, an, and the), or conjunctions (for, and)].

<u>Comment</u>:

YES 30. The section and subsection headings in the TOC must match the section and subsection headings in the FPI.

<u>Comment</u>:

YES 31. In the TOC, when a section or subsection is omitted, the numbering must not change. If a section or subsection from 201.56(d)(1) is omitted from the FPI and TOC, the heading "FULL PRESCRIBING INFORMATION: CONTENTS" must be followed by an asterisk and the following statement must appear at the end of TOC: "*Sections or subsections omitted from the full prescribing information are not listed." *Comment:*

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Full Prescribing Information (FPI)

FULL PRESCRIBING INFORMATION: GENERAL FORMAT

YES 32. The bolded section and subsection headings in the FPI must be named and numbered in accordance with 21 CFR 201.56(d)(1) as noted below (section and subsection headings should be in UPPER CASE and title case, respectively). If a section/subsection required by regulation is omitted, the numbering must not change. Additional subsection headings (i.e., those not named by regulation) must also be bolded and numbered.

BOXED WARNING 1 INDICATIONS AND USAGE 2 DOSAGE FORMS AND STRENGTHS 4 CONTRAINDICATIONS 5 WARNINGS AND PRECAUTIONS 6 ADVERSE REACTIONS 7 DRUG INTERACTIONS 8 USE IN SPECIFIC POPULATIONS 8.1 Pregnancy 8.2 Labor and Delivery 8.3 Nursing Mothers 8.4 Pediatric Use 8.5 Geriatric Use 9 DRUG ABUSE AND DEPENDENCE 9.1 Controlled Substance 9.2 Abuse 9.3 Dependence 10 OVERDOSAGE 11 DESCRIPTION 12.2 Pharmacodynamics 12.3 Pharmacokinetics 12.4 Microbiology (by guidance) 12.5 Pharmacogenomics (by guidance) 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility 13.2 Animal Toxicology and/or Pharmacology 14 CLINICAL STUDIES 15 REFERENCES 16 HOW SUPPLIED/STORAGE AND HANDLING 17 PATIENT COUNSELING INFORMATION	
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12.4 Microbiology (by guidance) 12.5 Pharmacogenomics (by guidance) 13 NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility 13.2 Animal Toxicology and/or Pharmacology 14 CLINICAL STUDIES 15 REFERENCES 16 HOW SUPPLIED/STORAGE AND HANDLING	12.2 Pharmacodynamics
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14 CLINICAL STUDIES 15 REFERENCES 16 HOW SUPPLIED/STORAGE AND HANDLING	13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
15 REFERENCES 16 HOW SUPPLIED/STORAGE AND HANDLING	
16 HOW SUPPLIED/STORAGE AND HANDLING	14 CLINICAL STUDIES
	15 REFERENCES
17 PATIENT COUNSELING INFORMATION	16 HOW SUPPLIED/STORAGE AND HANDLING
	17 PATIENT COUNSELING INFORMATION

<u>Comment</u>:

YES 33. The preferred presentation for cross-references in the FPI is the <u>section</u> (not subsection) heading followed by the numerical identifier. The entire cross-reference should be in *italics* and enclosed within brackets. For example, "*[see Warnings and Precautions (5.2)]*" or "*[see Warnings and Precautions (5.2)]*".

Comment:

N/A 34. If RMCs are listed in HL, the corresponding new or modified text in the FPI sections or subsections must be marked with a vertical line on the left edge.

Comment:

FULL PRESCRIBING INFORMATION DETAILS

FPI Heading

YES 35. The following heading must be **bolded** and appear at the beginning of the FPI: "FULL **PRESCRIBING INFORMATION".** This heading should be in UPPER CASE.

<u>Comment</u>:

BOXED WARNING Section in the FPI

YES 36. In the BW, all text should be **bolded**.

<u>Comment</u>:

YES 37. The BW must have a heading in UPPER CASE, containing the word "WARNING" (even if more than one Warning, the term, "WARNING" and not "WARNINGS" should be used) and other words to identify the subject of the Warning (e.g., "WARNING: SERIOUS INFECTIONS and ACUTE HEPATIC FAILURE").

<u>Comment</u>:

CONTRAINDICATIONS Section in the FPI

N/A 38. If no Contraindications are known, this section must state "None."

<u>Comment</u>:

ADVERSE REACTIONS Section in the FPI

YES 39. When clinical trials adverse reactions data are included (typically in the "Clinical Trials Experience" subsection of ADVERSE REACTIONS), the following verbatim statement or appropriate modification should precede the presentation of adverse reactions:

"Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice."

Comment:

YES 40. When postmarketing adverse reaction data are included (typically in the "Postmarketing Experience" subsection of ADVERSE REACTIONS), the following verbatim statement or appropriate modification should precede the presentation of adverse reactions:

"The following adverse reactions have been identified during post-approval use of (insert drug name). Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure."

Comment:

PATIENT COUNSELING INFORMATION Section in the FPI

YES 41. Must reference any FDA-approved patient labeling in Section 17 (PATIENT COUNSELING INFORMATION section). The reference should appear at the beginning of Section 17 and

include the type(s) of FDA-approved patient labeling (e.g., Patient Information, Medication Guide, Instructions for Use).

Comment:

YES 42. FDA-approved patient labeling (e.g., Medication Guide, Patient Information, or Instructions for Use) must not be included as a subsection under section 17 (PATIENT COUNSELING INFORMATION). All FDA-approved patient labeling must appear at the end of the PI upon approval.

Comment:

Appendix A: Format of the Highlights and Table of Contents

HIGHLIGHTS OF PRESCRIBING INFORMATION	CONTRAINDICATIONS
These highlights do not include all the information needed to use [DRUG	• [text]
NAME] safely and effectively. See full prescribing information for	• [text]
[DRUG NAME].	- [text]
[DROG MIMIE].	WARNINGS AND PRECAUTIONS
[DRUG NAME (nonproprietary name) dosage form, route of	이 것은 것 같은 것 같은 것 같아요. 이 이 이 이 이 것 같은 것 같은 것 같은 것 같은 것 같은 것 같은
administration, controlled substance symbol]	• [text]
Initial U.S. Approval: [year]	• [text]
indar c.o. Approvat. [year]	ADVEDSE DE ACTIONS
NUMBER OF DEST OF NUMBERS	ADVERSE REACTIONS
WARNING: [SUBJECT OF WARNING]	Most common adverse reactions (incidence $> x\%$) are [text].
See full prescribing information for complete boxed warning.	T CURPECTED ADJEDRE DE ACTIONS A UN A
16 N	To report SUSPECTED ADVERSE REACTIONS, contact [name of
• [text]	manufacturer] at [phone #] or FDA at 1-800-FDA-1088 or
• [text]	www.fda.gov/medwatch.
	DRUG INTERACTIONS
RECENT MAJOR CHANGES	• [text]
[section (X.X)] [m/year]	• [text]
[section (X.X)] [m/year]	
	USE IN SPECIFIC POPULATIONS
INDICATIONS AND USAGE	• [text]
[DRUG NAME] is a [name of pharmacologic class] indicated for [text]	• [text]
DOSAGE AND ADMINISTRATION	See 17 for PATIENT COUNSELING INFORMATION [and FDA-
• [text]	approved patient labeling OR and Medication Guide].
• [text]	approved parkar moting or and intertation outdep
	Revised: [m/year]
DOSAGE FORMS AND STRENGTHS	received, instead
[text]	
learl	
FULL PRESCRIBING INFORMATION: CONTENTS*	
FULL PRESCRIBING INFORMATION: CONTENTS*	9 DRUG ARUSE AND DEPENDENCE
	9 DRUG ABUSE AND DEPENDENCE
WARNING: [SUBJECT OF WARNING]	9.1 Controlled Substance
WARNING: [SUBJECT OF WARNING] 1 INDICATIONS AND USAGE	9.1 Controlled Substance 9.2 Abuse
WARNING: [SUBJECT OF WARNING] 1 INDICATIONS AND USAGE 2 DOSAGE AND ADMINISTRATION	9.1 Controlled Substance9.2 Abuse9.3 Dependence
WARNING: [SUBJECT OF WARNING] 1 INDICATIONS AND USAGE	9.1 Controlled Substance 9.2 Abuse 9.3 Dependence 10 OVERDOSAGE
WARNING: [SUBJECT OF WARNING] 1 INDICATIONS AND USAGE 2 DOSAGE AND ADMINISTRATION	9.1 Controlled Substance 9.2 Abuse 9.3 Dependence 10 OVERDOSAGE 11 DESCRIPTION
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/s/

HIREN PATEL 04/16/2015