Trade Name: Duavee

Generic Name: conjugated estrogens/bazedoxifene

Sponsor: Wyeth Pharmaceuticals, Inc.

Approval Date: October 3, 2013

Indications: DUAVEE is a combination of conjugated estrogens with an estrogen agonist/antagonist indicated for treatment of the following conditions in women with a uterus:

Treatment of moderate to severe vasomotor symptoms associated with menopause and prevention of postmenopausal osteoporosis
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APPLICATION NUMBER:

022247Orig1s000

APPROVAL LETTER
Dear Ms. Wong:

Please refer to your New Drug Application (NDA) dated September 26, 2012, received October 3, 2012, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act (FDCA) for Duavee (conjugated estrogens/bazedoxifene) tablets.

We acknowledge receipt of your amendments dated September 26; October 3, 19, 29, and 31; November 29 (3); and December 5, 19, and 21 (2), 2012; January 14 and 18; February 1, 7, 15, and 18; March 1 and 22; April 3, 5 (2), 8, 12, 15, 26, and 29; May 1, 3, 7, 8, 9, 15, 17 (2), 23, and 28; June 4 (3), 19, and 25; July 2, 3, 25, and 31; August 15 and 27; and September 3, 6, 16, 20, 24, and 27, 2013.

NDA 022247 provides for the use of Duavee (conjugated estrogens/bazedoxifene) tablets for the following indications which, for administrative purposes, we have designated as follows:

- **NDA 022247/Original 1** – Conjugated estrogens 0.45 mg/bazedoxifene 20 mg tablets in women with a uterus, for treatment of moderate to severe vasomotor symptoms associated with menopause and prevention of postmenopausal osteoporosis
- **NDA 022247/Original 2** – Conjugated estrogens 0.625 mg/bazedoxifene 20 mg tablets in women with a uterus, for treatment of moderate to severe vulvar and vaginal atrophy associated with menopause, for treatment of moderate to severe vasomotor symptoms associated with menopause, and prevention of postmenopausal osteoporosis

The subject of this action letter is NDA 022247/Original 1. A separate action letter was issued for NDA 022247/Original 2.

We have completed our review of this application, as amended. It is approved, effective on the date of this letter, for use as recommended in the enclosed agreed-upon labeling text.
CONTENT OF LABELING

As soon as possible, but no later than 14 days from the date of this letter, submit the content of labeling [21 CFR 314.50(l)] in structured product labeling (SPL) format using the FDA automated drug registration and listing system (eLIST), as described at http://www.fda.gov/ForIndustry/DataStandards/StructuredProductLabeling/default.htm. Content of labeling must be identical to the enclosed labeling (text for the package insert, text for the patient package insert). Information on submitting SPL files using eLIST may be found in the guidance for industry SPL Standard for Content of Labeling Technical Qs and As, available at http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM072392.pdf.

The SPL will be accessible via publicly available labeling repositories.

CARTON AND IMMEDIATE-CONTAINER LABELS

Submit final printed carton and container labels that are identical to the enclosed carton and immediate container labels and carton and immediate container labels submitted September 6, 2013, as soon as they are available, but no more than 30 days after they are printed. Please submit these labels electronically according to the guidance for industry titled “Providing Regulatory Submissions in Electronic Format – Human Pharmaceutical Product Applications and Related Submissions Using the eCTD Specifications (June 2008).” Alternatively, you may submit 12 paper copies, with 6 of the copies individually mounted on heavy-weight paper or similar material. For administrative purposes, designate this submission “Final Printed Carton and Container Labels for approved NDA 022247/Original 1.” Approval of this submission by FDA is not required before the labeling is used.

Marketing the product(s) with FPL that is not identical to the approved labeling text may render the product misbranded and an unapproved new drug.

ADVISORY COMMITTEE

This application was not referred to an FDA advisory committee because outside expertise was not necessary; there were no controversial issues that would have benefited from advisory committee discussion.

REQUIRED PEDIATRIC ASSESSMENTS

Under the Pediatric Research Equity Act (PREA) (21 U.S.C. 355c), all applications for new active ingredients, new indications, new dosage forms, new dosing regimens, or new routes of administration are required to contain an assessment of the safety and effectiveness of the product for the claimed indication(s) in pediatric patients unless this requirement is waived, deferred, or inapplicable.
We are waiving the pediatric study requirement for this application because necessary studies are impossible or highly impractical as the approved indications apply to conditions that do not occur in the pediatric population.

**POSTMARKETING REQUIREMENTS UNDER 505(o)**

Section 505(o)(3) of the FDCA authorizes FDA to require holders of approved drug and biological product applications to conduct postmarketing studies and clinical trials for certain purposes, if FDA makes certain findings required by the statute.

We have determined that an analysis of spontaneous postmarketing adverse events reported under subsection 505(k)(1) of the FDCA will not be sufficient to assess a signal of serious risk of increased concentrations of conjugated estrogens in the presence of a strong CYP3A4 inhibitor. These increased concentrations may increase the risk of endometrial hyperplasia, which may be a precursor to endometrial cancer.

Furthermore, the new pharmacovigilance system that FDA is required to establish under section 505(k)(3) of the FDCA will not be sufficient to assess this serious risk.

Finally, we have determined that only a clinical trial (rather than a nonclinical or observational study) will be sufficient to assess a signal of a serious risk of increased concentrations of conjugated estrogens in the presence of a strong CYP3A4 inhibitor. These increased concentrations may increase the risk of endometrial hyperplasia, which may be a precursor to endometrial cancer.

Therefore, based on appropriate scientific data, FDA has determined that you are required to conduct the following:

- Pharmacokinetic trial evaluating the effect of a strong CYP3A4 inhibitor and body weight on the exposure of conjugated estrogens and bazedoxifene titled “A Phase 1, Open-Label, Two-Period, Fixed-Sequence Study to Estimate the Effects of Steady State Administration of a Strong CYP3A4 Inhibitor on the Single-Dose Pharmacokinetics of Conjugated Estrogens/Bazedoxifene in Non-obese (Body Mass Index <30 kg/m²) and Obese (Body Mass Index ≥ 30 kg/m²) Postmenopausal Women.”

The timetable you submitted on September 19, 2013, states that you will conduct this trial according to the following schedule:

- Final Protocol Submission: 04/2014
- Trial Completion: 12/2014
- Final Report Submission: 04/2015

Submit the protocol to your IND 062288, with a cross-reference letter to this NDA. Submit the final report to your NDA. Prominently identify the submission with the following wording in bold capital letters at the top of the first page of the submission, as appropriate: “**Required**
Postmarketing Protocol Under 505(o)”, “Required Postmarketing Final Report Under 505(o)”, “Required Postmarketing Correspondence Under 505(o)

Section 505(o)(3)(E)(ii) of the FDCA requires you to report periodically on the status of any study or clinical trial required under this section. This section also requires you to periodically report to FDA on the status of any study or clinical trial otherwise undertaken to investigate a safety issue. Section 506B of the FDCA, as well as 21 CFR 314.81(b)(2)(vii) requires you to report annually on the status of any postmarketing commitments or required studies or clinical trials.

FDA will consider the submission of your annual report under section 506B and 21 CFR 314.81(b)(2)(vii) to satisfy the periodic reporting requirement under section 505(o)(3)(E)(ii) provided that you include the elements listed in 505(o) and 21 CFR 314.81(b)(2)(vii). We remind you that to comply with 505(o), your annual report must also include a report on the status of any study or clinical trial otherwise undertaken to investigate a safety issue. Failure to submit an annual report for studies or clinical trials required under 505(o) on the date required will be considered a violation of FDCA section 505(o)(3)(E)(ii) and could result in enforcement action.

PROMOTIONAL MATERIALS

You may request advisory comments on proposed introductory advertising and promotional labeling. To do so, submit, in triplicate, a cover letter requesting advisory comments, the proposed materials in draft or mock-up form with annotated references, and the package insert to:

Food and Drug Administration
Center for Drug Evaluation and Research
Office of Prescription Drug Promotion (OPDP)
5901-B Ammendale Road
Beltsville, MD 20705-1266

As required under 21 CFR 314.81(b)(3)(i), you must submit final promotional materials, and the package insert, at the time of initial dissemination or publication, accompanied by a Form FDA 2253. For instruction on completing the Form FDA 2253, see page 2 of the Form. For more information about submission of promotional materials to the Office of Prescription Drug Promotion (OPDP), see http://www.fda.gov/AboutFDA/CentersOffices/CDER/ucm090142.htm.

REPORTING REQUIREMENTS

We remind you that you must comply with reporting requirements for an approved NDA (21 CFR 314.80 and 314.81).
MEDWATCH-TO-MANUFACTURER PROGRAM

The MedWatch-to-Manufacturer Program provides manufacturers with copies of serious adverse event reports that are received directly by the FDA. New molecular entities and important new biologics qualify for inclusion for three years after approval. Your firm is eligible to receive copies of reports for this product. To participate in the program, please see the enrollment instructions and program description details at http://www.fda.gov/Safety/MedWatch/HowToReport/ucm166910.htm.

POST-ACTION FEEDBACK MEETING

New molecular entities and new biologics qualify for a post-action feedback meeting. Such meetings are used to discuss the quality of the application and to evaluate the communication process during drug development and marketing application review. The purpose is to learn from successful aspects of the review process and to identify areas that could benefit from improvement. If you would like to have such a meeting with us, call the Regulatory Project Manager for this application.

PDUFA V APPLICANT INTERVIEW

FDA has contracted with Eastern Research Group, Inc. (ERG) to conduct an independent interim and final assessment of the Program for Enhanced Review Transparency and Communication for NME NDAs and Original BLAs under PDUFA V (‘the Program’). The PDUFA V Commitment Letter states that these assessments will include interviews with applicants following FDA action on applications reviewed in the Program. For this purpose, first-cycle actions include approvals, complete responses, and withdrawals after filing. The purpose of the interview is to better understand applicant experiences with the Program and its ability to improve transparency and communication during FDA review.

ERG will contact you to schedule a PDUFA V applicant interview and provide specifics about the interview process. Your responses during the interview will be confidential with respect to the FDA review team. ERG has signed a non-disclosure agreement and will not disclose any identifying information to anyone outside their project team. They will report only anonymized results and findings in the interim and final assessments. Members of the FDA review team will be interviewed by ERG separately. While your participation in the interview is voluntary, your feedback will be helpful to these assessments.
If you have any questions, call Samantha Bell, Regulatory Project Manager, at (301) 796-9687.

Sincerely,

\{See appended electronic signature page\}

Julie Beitz, M.D.
Director
Office of Drug Evaluation III
Center for Drug Evaluation and Research

Enclosures:
Content of Labeling
Carton and Container Labeling
This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

JULIE G BEITZ
10/03/2013