

<p>DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION</p> <p>APPLICATION TO MARKET A NEW DRUG, BIOLOGIC, OR AN ANTIBIOTIC DRUG FOR HUMAN USE <i>(Title 21, Code of Federal Regulations, 314 & 601)</i></p>	<p><small>Form Approved: OMB No. 0910-0338 Expiration Date: March 31, 2003 See OMB Statement on page 2.</small></p> <p style="text-align: center;">FOR FDA USE ONLY</p> <p>APPLICATION NUMBER</p>
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APPLICANT INFORMATION	
NAME OF APPLICANT The R.W. Johnson Pharmaceutical Research Institute	DATE OF SUBMISSION 16 NOV 2001
TELEPHONE NO. (Include Area Code) (908) 704-4812	FACSIMILE (FAX) Number (Include Area Code) (908) 203-1499
APPLICANT ADDRESS (Number, Street, City, State, Country, ZIP Code or Mail Code, and U.S. License number if previously issued): 920 Route 202 South P.O. Box 300 Raritan, New Jersey 08869-0602	AUTHORIZED U.S. AGENT NAME & ADDRESS (Number, Street, City, State, ZIP Code, telephone & FAX number) IF APPLICABLE

PRODUCT DESCRIPTION	
NEW DRUG OR ANTIBIOTIC APPLICATION NUMBER, OR BIOLOGICS LICENSE APPLICATION NUMBER (If previously issued) NDA 21-180	
ESTABLISHED NAME (e.g., Proper name, USP/USAN name) norelgestromin and ethinyl estradiol	PROPRIETARY NAME (trade name) IF ANY ORTHO EVRA™
CHEMICAL/BIOCHEMICAL/BLOOD PRODUCT NAME (If any)	CODE NAME (If any)
DOSAGE FORM: transdermal patch	STRENGTHS: 150 mcg norelgestromin 20 mcg ethinyl estradiol
ROUTE OF ADMINISTRATION: Transdermal	
(PROPOSED) INDICATION(S) FOR USE: Prevention of Pregnancy	

APPLICATION INFORMATION:	
APPLICATION TYPE (check one) <input checked="" type="checkbox"/> NEW DRUG APPLICATION (21 CFR 314.50) <input type="checkbox"/> ABBREVIATED APPLICATION (ANDA, AADA, 21 CFR 314.94) <input type="checkbox"/> BIOLOGICS LICENSE APPLICATION (21 CFR part 601)	
IF AN NDA, IDENTIFY THE APPROPRIATE TYPE <input type="checkbox"/> 505 (b) (1) <input type="checkbox"/> 505 (b) (2)	
IF AN ANDA, OR AADA, IDENTIFY THE REFERENCE LISTED DRUG PRODUCT THAT IS THE BASIS FOR THE SUBMISSION Name of Drug _____ Holder of Approved Application _____	
TYPE OF SUBMISSION (check one) <input type="checkbox"/> ORIGINAL APPLICATION <input checked="" type="checkbox"/> AMENDMENT TO A PENDING APPLICATION <input type="checkbox"/> RESUBMISSION <input type="checkbox"/> PRESUBMISSION <input type="checkbox"/> ANNUAL REPORT <input type="checkbox"/> ESTABLISHMENT DESCRIPTION SUPPLEMENT <input type="checkbox"/> EFFICACY SUPPLEMENT <input type="checkbox"/> LABELING SUPPLEMENT <input type="checkbox"/> CHEMISTRY MANUFACTURING AND CONTROLS SUPPLEMENT <input type="checkbox"/> OTHER	
IF A SUBMISSION OR PARTIAL APPLICATION, PROVIDE LETTER DATE OF AGREEMENT TO PARTIAL SUBMISSION: _____	
IF A SUPPLEMENT, IDENTIFY THE APPROPRIATE CATEGORY <input type="checkbox"/> CBE <input type="checkbox"/> CBE-30 <input type="checkbox"/> Prior Approval (PA)	
REASON FOR SUBMISSION RESPONSE TO FDA REQUEST TO PROVIDE ADDITIONAL FINANCIAL DISCLOSURE INFORMATION	
PROPOSED MARKETING STATUS (check one) <input checked="" type="checkbox"/> PRESCRIPTION PRODUCT (Rx) <input type="checkbox"/> OVER THE COUNTER PRODUCT (OTC)	
NUMBER OF VOLUMES SUBMITTED _____	THIS APPLICATION IS <input type="checkbox"/> PAPER <input type="checkbox"/> PAPER AND ELECTRONIC <input type="checkbox"/> ELECTRONIC

ESTABLISHMENT INFORMATION (Full establishment should be provided in the body of the Application.) Provide locations of all manufacturing, packaging and control sites for drug substance and drug product (continuation sheets may be used if necessary). Include name, address, contact, telephone number, registration number (CFN), DMF number, and manufacturing steps and/or type of testing (e.g. Final dosage form, Stability testing) conducted at the site. Please indicate whether the site is ready for inspection or, if not, when it will be ready.

Cross References (List related License Applications, INDs, NDAs, PMAs, 510(k)s, IDEs, BMFs, and DMFs referenced in the current application)

This application contains the following items: (Check all that apply)

<input type="checkbox"/>	1. Index
<input checked="" type="checkbox"/>	2. Labeling (check one) <input checked="" type="checkbox"/> Draft Labeling <input type="checkbox"/> Final Printed Labeling
<input type="checkbox"/>	3. Summary (21 CFR 314.50 (c))
<input type="checkbox"/>	4. Chemistry section
<input type="checkbox"/>	A. Chemistry, manufacturing, and controls information (e.g. 21 CFR 314.50 (d) (1), 21 CFR 601.2)
<input type="checkbox"/>	B. Samples (21 CFR 314.50 (e) (1), 21 CFR 601.2 (a)) (Submit only upon FDA's request)
<input type="checkbox"/>	C. Methods validation package (e.g. 21 CFR 314.50 (e) (2) (i), 21 CFR 601.2)
<input type="checkbox"/>	5. Nonclinical pharmacology and toxicology section (e.g. 21 CFR 314.50 (d) (2), 21 CFR 601.2)
<input type="checkbox"/>	6. Human pharmacokinetics and bioavailability section (e.g. 21 CFR 314.50 (d) (3), 21 CFR 601.2)
<input type="checkbox"/>	7. Clinical Microbiology (e.g. 21 CFR 314.50 (d) (4))
<input type="checkbox"/>	8. Clinical data section (e.g. 21 CFR 314.50 (d) (5), 21 CFR 601.2)
<input type="checkbox"/>	9. Safety update report (e.g. 21 CFR 314.50 (d) (5) (vi) (b), 21 CFR 601.2)
<input type="checkbox"/>	10. Statistical section (e.g. 21 CFR 314.50 (d) (6), 21 CFR 601.2)
<input type="checkbox"/>	11. Case report tabulations (e.g. 21 CFR 314.50 (f) (1), 21 CFR 601.2)
<input type="checkbox"/>	12. Case reports forms (e.g. 21 CFR 314.50 (f) (2), 21 CFR 601.2)
<input type="checkbox"/>	13. Patent information on any patent which claims the drug (21 U.S.C 355 (b) or (c))
<input type="checkbox"/>	14. A patent certification with respect to any patent which claims the drug (21 U.S.C 355 (b) (2) or (j) (2) (A))
<input type="checkbox"/>	15. Establishment description (21 CFR Part 600, if applicable)
<input type="checkbox"/>	16. Debarment certification (FD&C Act 306 (k) (1))
<input type="checkbox"/>	17. Field copy certification (21 CFR 314.50 (k) (3))
<input type="checkbox"/>	18. User Fee Cover Sheet (Form FDA 3397)
<input type="checkbox"/>	19. Financial information (21 CFR Part 54)
<input type="checkbox"/>	20. OTHER (Specify)

CERTIFICATION

I agree to update this application with new safety information about the product that may reasonably affect the statement of contraindications, warnings, precautions, or adverse reactions in the draft labeling. I agree to submit safety update reports as provided for by regulation or as requested by FDA. If this application is approved, I agree to comply with all applicable laws and regulations that apply to approved applications, including, but not limited to the following:

1. Good manufacturing practice regulations in 21 CFR 210 and 211, 606 and/or 820.
2. Biological establishment standards in 21 CFR Part 600.
3. Labeling regulations in 21 CFR 201, 606, 610, 660 and/or 809.
4. In the case of a prescription drug or biological product, prescription drug advertising regulations in 21 CFR 202.
5. Regulations on making changes in application in 21 CFR 314.70, 314.71, 314.72, 314.97, 314.99, and 601.12.
6. Regulations on reports in 21 CFR 314.80, 314.81, 600.80 and 600.81.
7. Local, state and Federal environmental impact laws.

If this application applies to a drug product that FDA has proposed for scheduling under the Controlled Substances Act I agree not to market the product until the Drug Enforcement Administration makes a final scheduling decision.

The data and information in this submission have been reviewed and, to the best of my knowledge are certified to be true and accurate.

Warning: a willfully false statement is a criminal offense, U.S. Code, title 18, section 1001.

SIGNATURE OF RESPONSIBLE OFFICIAL OR AGENT <i>Ramon Polo</i>	TYPED NAME AND TITLE Ramon Polo, PhD Director, Regulatory Affairs	DATE 16 NOV 2001
ADDRESS (Street, City, State, and ZIP Code) 920 Route 202 South, P.O. Box 300 Raritan, New Jersey 08869-0602		Telephone Number (908) 704-4812

Public reporting burden for this collection of information is estimated to average 40 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to:

Department of Health and Human Services
Food and Drug Administration
CBER, HFM-09
1401 Rockville Pike
Rockville, MD 20852-1448
FORM FDA 308b (4/00)

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE
920 U.S. Route # 202, P.O. Box 300
Raritan, New Jersey 08869-602

TELEFACSIMILE TRANSMITTAL FORM

FAX NUMBER: (908) 203-1499DATE: 16 November 2001TO: JENNIFER MERCIER
Project Manager, FDA
Div. Reprod. & Urol. Drug ProductsFROM: Valerie Donnelly
Regulatory Affairs
Phone: (908) 704-5891
Fax: (908) 203-1499

TELEFAX #: (301) 827-4267

NUMBER OF PAGES (INCLUDING TRANSMITTAL FORM): 5

NOTE: If you do not receive the correct number of pages or if the transmission is unclear, please call me at (908) 704-5891.

MESSAGE (If any):

JENNIFER,
RE: NDA 21-180 ORTHO BVRA™ dissolution specifications
ATTACHED IS A FAXED VERSION OF OUR RESPONSE TO FDA'S REQUEST THAT WE REVISE THE DISSOLUTION SPECS. A hard copy submission will follow tomorrow morning. If you have additional questions or comments on this submission, please call me at (908) 704-5891. THANKYOU

CONFIDENTIALITY NOTICE

This facsimile transmission cover sheet and any documents which may accompany it contains information from Johnson & Johnson, which is intended only for the use of the individual or entity to which it is addressed and which may contain information that is privileged, confidential, and/or exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, any disclosure, dissemination, distribution, copying, or other use of this communication or its substance is prohibited. If you have received this communication in error, please call us collect to arrange for the destruction of the communication or its return to us at our expense. Thank you.



THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE

ROUTE 202, P.O. BOX 300, RARITAN, NEW JERSEY 08899-0602

Faxed NOV 16, 01

Dr. Susan Allen, MD, Director
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Evaluation III, (HFD-580)
Division of Reproductive and Urologic Drug
Product
Attn.: Document Control Room 14B-04
5600 Fishers Lane
Rockville, Maryland 20857-1706

NDA 21-180
ORTHO EVRA™
(norelgestromin/ethinyl estradiol
transdermal system)

**Amendment to a Pending
Application:**
Response to FDA Request For
CM&C Information

Dear Dr. Allen:

Reference is made to pending New Drug Application (NDA) 21-180 for ORTHO EVRA™, a norelgestromin (NGMN) and ethinyl estradiol (EE) transdermal contraceptive system, submitted on 20 December 2000. Reference is also made to the 15 November 2001 teleconference with the Division to discuss the dissolution specifications for the drug product. FDA's requested RWJPRI to revise the specifications submitted in the NDA to the new specifications calculated by FDA.

<u>Test Attribute</u>	<u>Old NDA Specification</u>	<u>New Interim FDA calculated Specification</u>
Drug Release		
a) Norelgestromin (NGMN)		
b) Ethinyl estradiol (EE)		

RWJPRI agrees to accept the interim specifications above, as calculated by FDA. We will re-test the lots in stock according to the new specifications calculated by FDA. We also agree with the proposal to come back to the Agency as soon as we have additional data on production batches and a justification for setting new specifications.

Should you have any questions and/or comments, please contact me at (908) 704-4812, contact Valerie Donnelly at (908) 704-5891 or call our telephone line dedicated for FDA use at (908) 704-4600.

Sincerely,

The R. W. Johnson Pharmaceutical Research Institute



Ramon Polo, PhD
Director
Regulatory Affairs

Send desk copies to:

Dr. Mhoojong Rhee - FDA/DRUDP/HFD-580, Chem-pharm Team Leader
Dr. Amit Mitra - FDA/DRUDP/HFD-580, Chemistry Reviewer
Dr. Dhruva Chatterjee - FDA/DRUDP/HFD-580, Biopharm Reviewer

APPEARS THIS WAY
ON ORIGINAL

<p>DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION</p> <p>APPLICATION TO MARKET A NEW DRUG, BIOLOGIC, OR AN ANTIBIOTIC DRUG FOR HUMAN USE <i>(Title 21, Code of Federal Regulations, 314 & 601)</i></p>	<p>Form Approved: OMB No. 0910-0336 Expiration Date: March 31, 2003 See OMB Statement on page 2.</p> <p style="text-align: center;">FOR FDA USE ONLY</p> <p>APPLICATION NUMBER</p>
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PRODUCT DESCRIPTION	
NEW DRUG OR ANTIBIOTIC APPLICATION NUMBER, OR BIOLOGICS LICENSE APPLICATION NUMBER (if previously issued) NDA 21-180	
ESTABLISHED NAME (e.g., Proper name, USP/USAN name) norelgestromin and ethinyl estradiol	PROPRIETARY NAME (trade name) IF ANY ORTHO EVRA™
CHEMICAL/BIOCHEMICAL/BLOOD PRODUCT NAME (if any)	CODE NAME (if any)
DOSAGE FORM: transdermal patch	STRENGTHS: 6 mg norelgestromin 0.75 mg ethinyl estradiol
ROUTE OF ADMINISTRATION: Transdermal	
(PROPOSED) INDICATION(S) FOR USE: Prevention of Pregnancy	

APPLICATION INFORMATION	
APPLICATION TYPE (check one) <input checked="" type="checkbox"/> NEW DRUG APPLICATION (21 CFR 314.60) <input type="checkbox"/> ABBREVIATED APPLICATION (ANDA, AADA, 21 CFR 314.94) <input type="checkbox"/> BIOLOGICS LICENSE APPLICATION (21 CFR part 601)	
IF AN NDA, IDENTIFY THE APPROPRIATE TYPE <input type="checkbox"/> 505 (b) (1) <input type="checkbox"/> 505 (b) (2)	
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IF A SUPPLEMENT, IDENTIFY THE APPROPRIATE CATEGORY <input type="checkbox"/> CBE <input type="checkbox"/> CBE-30 <input type="checkbox"/> Prior Approval (PA)	
REASON FOR SUBMISSION RESPONSE TO FDA REQUEST FOR CM&C INFORMATION	

PROPOSED MARKETING STATUS (check one) <input checked="" type="checkbox"/> PRESCRIPTION PRODUCT (Rx) <input type="checkbox"/> OVER THE COUNTER PRODUCT (OTC)	
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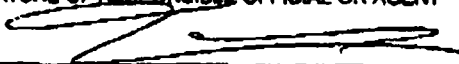
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<input type="checkbox"/>	19. Financial Information (21 CFR Part 54)
<input checked="" type="checkbox"/>	20. OTHER (Specify) Response to FDA Request for CM&C Information

CERTIFICATION
 I agree to update this application with new safety information about the product that may reasonably affect the statement of contraindications, warnings, precautions, or adverse reactions in the draft labeling. I agree to submit safety update reports as provided for by regulation or requested by FDA. If this application is approved, I agree to comply with all applicable laws and regulations that apply to approved applications, including, but not limited to the following:

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2. Biological establishment standards in 21 CFR Part 600.
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4. In the case of a prescription drug or biological product, prescription drug advertising regulations in 21 CFR 202.
5. Regulations on making changes in application in 21 CFR 314.70, 314.71, 314.72, 314.97, 314.99, and 601.12.
6. Regulations on reports in 21 CFR 314.80, 314.81, 600.80 and 600.81.
7. Local, state and Federal environmental impact laws.

If this application applies to a drug product that FDA has proposed for scheduling under the Controlled Substances Act I agree not to market the product until the Drug Enforcement Administration makes a final scheduling decision.
 The data and information in this submission have been reviewed and, to the best of my knowledge are certified to be true and accurate.
 Warning: a willfully false statement is a criminal offense, U.S. Code, title 18, section 1001.

SIGNATURE OF RESPONSIBLE OFFICIAL OR AGENT 	TYPED NAME AND TITLE Ramon Polo, PhD Director, Regulatory Affairs	DATE FRI NOV 16 2001
ADDRESS (Street, City, State, and ZIP Code) 920 Route 202 South, P.O. Box 300 Raritan, New Jersey 08869-0602		Telephone Number (908) 704-4812

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Department of Health and Human Services
 Food and Drug Administration
 CBER, HFM-99
 1401 Rockville Pike
 Rockville, MD 20852-1448

FORM FDA 350b (4/00)

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1
THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE
920 Route 202, P.O. Box 300 Raritan, NJ 08869-0602

Fax Cover Sheet

Date: November 16, 2001

Pages:

To: Jennifer Mercier

From: Karen Futterknecht *K-F*

Dept.: FDA

Dept.: Regulatory Affairs

Fax #: 301-827-4267

Fax #: 908-722-5113

Telephone #: 301-827-4249

Telephone #: 908-704-4912

Comments:

**APPEARS THIS WAY
ON ORIGINAL**



THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE

ROUTE 202, P.O. BOX 300, RARITAN, NEW JERSEY 08869-0602

16 NOV 2001

Susan Allen, MD, Director
 Division of Reproductive and Urologic
 Drug Products HFD-580

Center for Drug Evaluation and Research
 Food and Drug Administration
 Attn.: Document Control Room 14B-04

5600 Fishers Lane
 Rockville, Maryland 20857-1706

NDA 21-180
ORTHO EVRA™
 (norelgestromin/ethinyl estradiol
 transdermal system)

AMENDMENT TO A
PENDING APPLICATION:
 Labels/Labeling Information and

Dear Dr. Allen:

Reference is made to our pending NDA 21-180 for ORTHO EVRA™ and to the draft package components submitted with the original application on 20 December 2000 NDA (Item 2, Item Volume 1, Pages 52-59). Reference is also made to the draft packaging components that were amended to the pending application on 05 October 2001. At this time we would like to amend the NDA to withdraw the component. Attached is a black and white copy of the component.

If you have questions regarding this information please contact me at (908)-704-4812 or Valerie Donnelly at (908)-704-5891 or our dedicated number for FDA use (908)-704-4600.

Sincerely,

The RW Johnson Pharmaceutical Research Institute

Ramon Polo Ph.D.
 Director
 Regulatory Affairs

Send 1 desk copy to: Dr. Amit Mitra, FDA/DRUDP/HFD-580, Reviewing Chemist
 Fax Copy to Jennifer Mercier

N:\cygnus\tr\100501\package comp amend for packer

DEPARTMENT OF HEALTH AND HUMAN SERVICES
FOOD AND DRUG ADMINISTRATION

Form Approved: OMB No. 0910-0338
Expiration Date: March 31, 2003
See OMB Statement on page 2.

**APPLICATION TO MARKET A NEW DRUG, BIOLOGIC, OR AN
ANTIBIOTIC DRUG FOR HUMAN USE**
(Title 21, Code of Federal Regulations, 314 & 601)

FOR FDA USE ONLY
APPLICATION NUMBER

APPLICANT INFORMATION

NAME OF APPLICANT: **The R.W. Johnson Pharmaceutical Research Institute** DATE OF SUBMISSION: **16 NOV 2001**

TELEPHONE NO. (Include Area Code): **(908) 704-4812** FACSIMILE (FAX) Number (Include Area Code): **(908) 203-1499**

APPLICANT ADDRESS (Number, Street, City, State, Country, ZIP Code or Mail Code, and U.S. License number if previously issued):
**920 Route 202 South
P.O. Box 300
Raritan, New Jersey 08869-0602**

AUTHORIZED U.S. AGENT NAME & ADDRESS (Number, Street, City, State, ZIP Code, telephone & FAX number) IF APPLICABLE

PRODUCT DESCRIPTION

NEW DRUG OR ANTIBIOTIC APPLICATION NUMBER, OR BIOLOGICS LICENSE APPLICATION NUMBER (if previously issued) **NDA 21-180**

ESTABLISHED NAME (e.g., Proper name, USPAUSAN name): **norelgestromin and ethinyl estradiol** PROPRIETARY NAME (trade name) IF ANY: **ORTHO EVRA™**

CHEMICAL/BIOCHEMICAL/BLOOD-PRODUCT NAME (if any) CODE NAME (if any)

DOSAGE FORM: **transdermal patch** STRENGTHS: **150 mcg norelgestromin
20 mcg ethinyl estradiol** ROUTE OF ADMINISTRATION: **Transdermal**

(PROPOSED) INDICATION(S) FOR USE:
Prevention of Pregnancy

APPLICATION INFORMATION

APPLICATION TYPE (check one): NEW DRUG APPLICATION (21 CFR 314.50) ABBREVIATED APPLICATION (ANDA, AADA, 21 CFR 314.84)
 BIOLOGICS LICENSE APPLICATION (21 CFR part 601)

IF AN NDA, IDENTIFY THE APPROPRIATE TYPE 505 (b) (1) 505 (b) (2)

IF AN ANDA, OR AADA, IDENTIFY THE REFERENCE LISTED DRUG PRODUCT THAT IS THE BASIS FOR THE SUBMISSION
Name of Drug: _____ Holder of Approved Application: _____

TYPE OF SUBMISSION (check one): ORIGINAL APPLICATION AMENDMENT TO A PENDING APPLICATION RESUBMISSION
 PRESUBMISSION ANNUAL REPORT ESTABLISHMENT DESCRIPTION SUPPLEMENT EFFICACY SUPPLEMENT
 LABELING SUPPLEMENT CHEMISTRY MANUFACTURING AND CONTROLS SUPPLEMENT OTHER

IF A SUBMISSION OR PARTIAL APPLICATION, PROVIDE LETTER DATE OF AGREEMENT TO PARTIAL SUBMISSION: _____

IF A SUPPLEMENT, IDENTIFY THE APPROPRIATE CATEGORY CBE CBE-30 Prior Approval (PA)

REASON FOR SUBMISSION: **RESPONSE TO FDA REQUEST TO PROVIDE ADDITIONAL FINANCIAL DISCLOSURE INFORMATION**

PROPOSED MARKETING STATUS (check one): PRESCRIPTION PRODUCT (Rx) OVER THE COUNTER PRODUCT (OTC)

NUMBER OF VOLUMES SUBMITTED: _____ THIS APPLICATION IS PAPER PAPER AND ELECTRONIC ELECTRONIC

ESTABLISHMENT INFORMATION (Full establishment should be provided in the body of the Application.)
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<input type="checkbox"/>	4. Chemistry section
<input type="checkbox"/>	A. Chemistry, manufacturing, and controls information (e.g. 21 CFR 314.50 (d) (1), 21 CFR 601.2)
<input type="checkbox"/>	B. Samples (21 CFR 314.50 (e) (1), 21 CFR 601.2 (a)) (Submit only upon FDA's request)
<input type="checkbox"/>	C. Methods validation package (e.g. 21 CFR 314.50 (e) (2) (I), 21 CFR 601.2)
<input type="checkbox"/>	5. Nonclinical pharmacology and toxicology section (e.g. 21 CFR 314.50 (d) (2), 21 CFR 601.2)
<input type="checkbox"/>	6. Human pharmacokinetics and bioavailability section (e.g. 21 CFR 314.50 (d) (3), 21 CFR 601.2)
<input type="checkbox"/>	7. Clinical Microbiology (e.g. 21 CFR 314.50 (d) (4))
<input type="checkbox"/>	8. Clinical data section (e.g. 21 CFR 314.50 (d) (5), 21 CFR 601.2)
<input type="checkbox"/>	9. Safety update report (e.g. 21 CFR 314.50 (d) (5) (vi) (b), 21 CFR 601.2)
<input type="checkbox"/>	10. Statistical section (e.g. 21 CFR 314.50 (d) (6), 21 CFR 601.2)
<input type="checkbox"/>	11. Case report tabulations (e.g. 21 CFR 314.50 (f) (1), 21 CFR 601.2)
<input type="checkbox"/>	12. Case reports forms (e.g. 21 CFR 314.50 (f) (2), 21 CFR 601.2)
<input type="checkbox"/>	13. Patent information on any patent which claims the drug (21 U.S.C 355 (b) or (c))
<input type="checkbox"/>	14. A patent certification with respect to any patent which claims the drug (21 U.S.C 355 (b) (2) or (I) (2) (A))
<input type="checkbox"/>	15. Establishment description (21 CFR Part 600, if applicable)
<input type="checkbox"/>	16. Debarment certification (FD&C Act 306 (k) (1))
<input type="checkbox"/>	17. Field copy certification (21 CFR 314.50 (k) (3))
<input type="checkbox"/>	18. User Fee Cover Sheet (Form FDA 3397)
<input type="checkbox"/>	19. Financial Information (21 CFR Part 54)
<input type="checkbox"/>	20. OTHER (Specify)

CERTIFICATION

I agree to update this application with new safety information about the product that may reasonably affect the statement of contraindications, warnings, precautions, or adverse reactions in the draft labeling. I agree to submit safety update reports as provided for by regulation or as requested by FDA. If this application is approved, I agree to comply with all applicable laws and regulations that apply to approved applications, including, but not limited to the following:

1. Good manufacturing practice regulations in 21 CFR 210 and 211, 606 and/or 620.
2. Biological establishment standards in 21 CFR Part 600.
3. Labeling regulations in 21 CFR 201, 608, 610, 660 and/or 809.
4. In the case of a prescription drug or biological product, prescription drug advertising regulations in 21 CFR 202.
5. Regulations on making changes in application in 21 CFR 314.70, 314.71, 314.72, 314.97, 314.99, and 601.12.
6. Regulations on reports in 21 CFR 314.80, 314.81, 600.80 and 600.81.
7. Local, state and Federal environmental impact laws.

If this application applies to a drug product that FDA has proposed for scheduling under the Controlled Substances Act I agree not to market the product until the Drug Enforcement Administration makes a final scheduling decision.

The data and information in this submission have been reviewed and, to the best of my knowledge are certified to be true and accurate.

Warning: a willfully false statement is a criminal offense, U.S. Code, title 18, section 1001.

SIGNATURE OF RESPONSIBLE OFFICIAL OR AGENT <i>Ramon Polo</i>	TYPED NAME AND TITLE Ramon Polo, PhD Director, Regulatory Affairs	DATE 16 NOV 2001
ADDRESS (Street, City, State, and ZIP Code) 820 Route 202 South, P.O. Box 300 Raritan, New Jersey 08869-0602		Telephone Number (908) 704-4812

Public reporting burden for this collection of information is estimated to average 40 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to:

Department of Health and Human Services
Food and Drug Administration
CBER, HFM-99
1401 Rockville Pike
Rockville, MD 20852-1448

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.



THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE

ROUTE 202, P.O. BOX 300, RARITAN, NEW JERSEY 08869-0602

faxed to FDA 13 NOV 2001 UM

Susan Allen, MD, Director
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Evaluation III, (HFD-580)
Division of Reproductive and Urologic Drug
Products

Attn.: Document Control Room 14B-04
5600 Fishers Lane
Rockville, Maryland 20857-1706

NDA 21-180
ORTHO EVRA™
(norelgestromin/ethinyl estradiol
transdermal system)

Amendment to a Pending
Application:
Response to FDA Request for
Chemistry, Manufacturing and
Controls (CM&C) Information

Dear Dr. Allen:

Reference is made to pending New Drug Application (NDA) 21-180, submitted on 21 December 2000, for ORTHO EVRA™, a norelgestromin and ethinyl estradiol transdermal system. Reference is also made to our teleconference with the Division on 09 November 2001. During this teleconference, FDA requested the following:

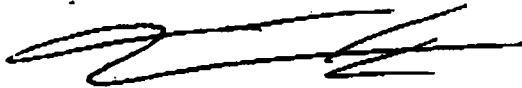
- The proposed 8-hour dissolution specifications are too wide. An Excel spreadsheet containing the data from clinical batches 01107, 01517 and 01607 is requested.
- The development history for the dissolution method is requested. Specifically, we are interested in your rationale for the choice of medium and pH utilized in the specification.

Our responses and supporting data are provided behind the tabs entitled "Responses", "Appendix 1" and "Appendix 2". We have provided the best quality copies available. In addition, we have enclosed the Excel spreadsheet data on a diskette and forwarded an electronic copy via email to Jennifer Mercier, Project Manager, DRUDP. The diskettes were scanned using McAfee virus shield version V.4.5.0.534; virus definition 4.0.4169, scan engine 4.1.40 and deemed to be virus-free.

Should you have any questions and/or comments, please contact me directly at (908) 704-4812, call Valerie Donnelly at (908) 704-5891 or call our telephone line dedicated for FDA use at (908) 704-4600.

Sincerely,

The R. W. Johnson Pharmaceutical Research Institute



Ramon Polo, PhD
Director
Regulatory Affairs

Send desk copies to:

1. Dr. Amit Mitra, Chemistry Reviewer
 2. Dr. Dhruva J. Chatterjee, Biopharm. Reviewer
- FDA/DRUDP
HFD-580
Rockville, MD 20857
Phone No: (301) 827-4260

APPEARS THIS WAY
ON ORIGINAL

DEPARTMENT OF HEALTH AND HUMAN SERVICES
FOOD AND DRUG ADMINISTRATION

Form Approved: OMB No. 0910-0338
Expiration Date: March 31, 2003
See OMB Statement on page 2.

APPLICATION TO MARKET A NEW DRUG, BIOLOGIC, OR AN
ANTIBIOTIC DRUG FOR HUMAN USE

(Title 21, Code of Federal Regulations, 314 & 601)

FOR FDA USE ONLY

APPLICATION NUMBER

APPLICANT INFORMATION

NAME OF APPLICANT The R.W. Johnson Pharmaceutical Research Institute		DATE OF SUBMISSION	
TELEPHONE NO. (Include Area Code) (908) 704-4812		FACSIMILE (FAX) Number (Include Area Code) (908) 203-1499	
APPLICANT ADDRESS (Number, Street, City, State, Country, ZIP Code or Mail Code, and U.S. License number if previously issued): 920 Route 202 South P.O. Box 300 Raritan, New Jersey 08869-0602		AUTHORIZED U.S. AGENT NAME & ADDRESS (Number, Street, City, State, ZIP Code, telephone & FAX number) IF APPLICABLE	

PRODUCT DESCRIPTION

NEW DRUG OR ANTIBIOTIC APPLICATION NUMBER, OR BIOLOGICS LICENSE APPLICATION NUMBER (if previously issued) NDA 21-180			
ESTABLISHED NAME (e.g., Proper name, USP/USAN name) norelgestromin and ethinyl estradiol		PROPRIETARY NAME (trade name) IF ANY ORTHO EVRA™	
CHEMICAL/BIOCHEMICAL/BLOOD PRODUCT NAME (if any)		CODE NAME (if any)	
DOSEAGE FORM transdermal patch	STRENGTHS: 6 mg norelgestromin 0.75 mg ethinyl estradiol	ROUTE OF ADMINISTRATION: Transdermal	
(PROPOSED) INDICATION(S) FOR USE: Prevention of Pregnancy			

APPLICATION INFORMATION

APPLICATION TYPE (check one): <input checked="" type="checkbox"/> NEW DRUG APPLICATION (21 CFR 314.50) <input type="checkbox"/> ABBREVIATED APPLICATION (ANDA, AADA, 21 CFR 314.64) <input type="checkbox"/> BIOLOGICS LICENSE APPLICATION (21 CFR part 601)			
IF AN NDA, IDENTIFY THE APPROPRIATE TYPE <input type="checkbox"/> 505 (b) (1) <input type="checkbox"/> 505 (b) (2)			
IF AN ANDA, OR AADA, IDENTIFY THE REFERENCE LISTED DRUG PRODUCT THAT IS THE BASIS FOR THE SUBMISSION Name of Drug: _____ Holder of Approved Application: _____			
TYPE OF SUBMISSION (check one) <input type="checkbox"/> PRESUBMISSION <input type="checkbox"/> ANNUAL REPORT <input type="checkbox"/> ESTABLISHMENT DESCRIPTION SUPPLEMENT <input type="checkbox"/> EFFICACY SUPPLEMENT <input type="checkbox"/> LABELING SUPPLEMENT <input type="checkbox"/> CHEMISTRY MANUFACTURING AND CONTROLS SUPPLEMENT <input checked="" type="checkbox"/> ORIGINAL APPLICATION <input type="checkbox"/> AMENDMENT TO A PENDING APPLICATION <input type="checkbox"/> RESUBMISSION <input type="checkbox"/> OTHER			
IF A SUBMISSION OR PARTIAL APPLICATION, PROVIDE LETTER DATE OF AGREEMENT TO PARTIAL SUBMISSION: _____			
IF A SUPPLEMENT, IDENTIFY THE APPROPRIATE CATEGORY <input type="checkbox"/> CBE <input type="checkbox"/> CBE-30 <input type="checkbox"/> Prior Approval (PA)			
REASON FOR SUBMISSION RESPONSE TO FDA REQUEST FOR CMC INFORMATION			
PROPOSED MARKETING STATUS (check one) <input checked="" type="checkbox"/> PRESCRIPTION PRODUCT (Rx) <input type="checkbox"/> OVER THE COUNTER PRODUCT (OTC)			
NUMBER OF VOLUMES SUBMITTED: _____	THIS APPLICATION IS <input type="checkbox"/> PAPER <input type="checkbox"/> PAPER AND ELECTRONIC <input type="checkbox"/> ELECTRONIC		

ESTABLISHMENT INFORMATION (Full establishment should be provided in the body of the Application.)
Provide locations of all manufacturing, packaging and control sites for drug substance and drug product (continuation sheets may be used if necessary). Include name, address, contact, telephone number, registration number (CFN), DMP number, and manufacturing steps and/or type of testing (e.g. Final dosage form, Stability testing) conducted at the site. Please indicate whether the site is ready for inspection or, if not, when it will be ready.

References (List related License Applications, INDs, NDAs, PMAs, 610(k)s, IDEs, BMFs, and DMFs referenced in the current application)

This application contains the following items: (Check all that apply)

<input type="checkbox"/>	1. Index
<input type="checkbox"/>	2. Labeling (check one) <input type="checkbox"/> Draft Labeling <input type="checkbox"/> Final Printed Labeling
<input type="checkbox"/>	3. Summary (21 CFR 314.50 (c))
<input type="checkbox"/>	4. Chemistry section
<input type="checkbox"/>	A. Chemistry, manufacturing, and controls information (e.g. 21 CFR 314.50 (d) (1), 21 CFR 601.2)
<input type="checkbox"/>	B. Samples (21 CFR 314.50 (e) (1), 21 CFR 601.2 (a)) (Submit only upon FDA's request)
<input type="checkbox"/>	C. Methods validation package (e.g. 21 CFR 314.50 (e) (2) (i), 21 CFR 601.2)
<input type="checkbox"/>	5. Nonclinical pharmacology and toxicology section (e.g. 21 CFR 314.50 (d) (2), 21 CFR 601.2)
<input type="checkbox"/>	6. Human pharmacokinetics and bioavailability section (e.g. 21 CFR 314.50 (d) (3), 21 CFR 601.2)
<input type="checkbox"/>	7. Clinical Microbiology (e.g. 21 CFR 314.50 (d) (4))
<input type="checkbox"/>	8. Clinical data section (e.g. 21 CFR 314.50 (d) (5), 21 CFR 601.2)
<input type="checkbox"/>	9. Safety update report (e.g. 21 CFR 314.50 (d) (5) (vi) (b), 21 CFR 601.2)
<input type="checkbox"/>	10. Statistical section (e.g. 21 CFR 314.50 (d) (8), 21 CFR 601.2)
<input type="checkbox"/>	11. Case report tabulations (e.g. 21 CFR 314.50 (f) (1), 21 CFR 601.2)
<input type="checkbox"/>	12. Case reports forms (e.g. 21 CFR 314.50 (f) (2), 21 CFR 601.2)
<input type="checkbox"/>	13. Patent information on any patent which claims the drug (21 U.S.C 355 (b) or (c))
<input type="checkbox"/>	14. A patent certification with respect to any patent which claims the drug (21 U.S.C 355 (b) (2) or (f) (2) (A))
<input type="checkbox"/>	15. Establishment description (21 CFR Part 600, if applicable)
<input type="checkbox"/>	16. Debarment certification (FD&C Act 306 (k) (1))
<input type="checkbox"/>	17. Field copy certification (21 CFR 314.50 (k) (3))
<input type="checkbox"/>	18. User Fee Cover Sheet (Form FDA 3397)
<input type="checkbox"/>	19. Financial Information (21 CFR Part 54)
<input type="checkbox"/>	20. OTHER (Specify) Response to FDA Request for CM&C Information

CERTIFICATION

I agree to update this application with new safety information about the product that may reasonably affect the statement of contraindications, warnings, precautions, or adverse reactions in the draft labeling. I agree to submit safety update reports as provided for by regulation or as requested by FDA. If this application is approved, I agree to comply with all applicable laws and regulations that apply to approved applications, including, but not limited to the following:

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2. Biological establishment standards in 21 CFR Part 600.
3. Labeling regulations in 21 CFR 201, 608, 610, 660 and/or 609.
4. In the case of a prescription drug or biological product, prescription drug advertising regulations in 21 CFR 202.
5. Regulations on making changes in application in 21 CFR 314.70, 314.71, 314.72, 314.97, 314.99, and 601.12.
6. Regulations on reports in 21 CFR 314.80, 314.81, 600.80 and 600.81.
7. Local, state and Federal environmental impact laws.

If this application applies to a drug product that FDA has proposed for scheduling under the Controlled Substances Act I agree not to market the product until the Drug Enforcement Administration makes a final scheduling decision.

The data and information in this submission have been reviewed and, to the best of my knowledge are certified to be true and accurate.

Warning: a willfully false statement is a criminal offense, U.S. Code, title 18, section 1001.

SIGNATURE OF RESPONSIBLE OFFICIAL OR AGENT <i>Ramon Polo</i>	TYPED NAME AND TITLE Ramon Polo, PhD Director, Regulatory Affairs	DATE Nov 13, 2001
ADDRESS (Street, City, State, and ZIP Code) 920 Route 282 South, P.O. Box 300 Raritan, New Jersey 08869-0302		Telephone Number (908) 704-4812

Public reporting burden for this collection of information is estimated to average 40 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to:

Department of Health and Human Services
Food and Drug Administration
CBER, HEM-99
1401 Rockville Pike
Rockville, MD 20852-1445

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

FAXED in 2 PARTS
① PAGES 1 (12th) - 22 + cover sheet
② 23 - 44 + cover sheet.

**THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE**

920 U.S. Route # 202, P.O. Box 300
Raritan, New Jersey 08869-602

TELEFACSIMILE TRANSMITTAL FORM

FAX NUMBER: (908) 203-1499

DATE: 13 November 2001

TO: JENNIFER MERCIER
Project Manager, FDA
Div. Reprod. & Urol. Drug Products

FROM: Valerie Donnelly
Regulatory Affairs
Phone: (908) 704-5891
Fax: (908) 203-1499

TELEFAX #: (301) 827-4267

NUMBER OF PAGES (INCLUDING TRANSMITTAL FORM):

44 TOTAL
plus 2 cover sheets

NOTE: If you do not receive the correct number of pages or if the transmission is unclear, please call me at (908) 704-5891.

MESSAGE (if any):

JENNIFER,
RE: NDA 21-180 ORTHO EVRA™ dissolution date
ATTACHED IS A FAXED VERSION OF OUR RESPONSE TO THE AGENCY'S 09 NOVEMBER 2001
REQUEST TO PROVIDE ADDITIONAL CM&C INFORMATION. A hard copy submission will follow
tomorrow morning. If you have additional questions or comments on this submission, please call me at
(908) 704-5891. THANK YOU

CONFIDENTIALITY NOTICE

This facsimile transmission cover sheet and any documents which may accompany it contains information from Johnson & Johnson, which is intended only for the use of the individual or entity to which it is addressed and which may contain information that is privileged, confidential, and/or exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, any disclosure, dissemination, distribution, copying, or other use of this communication or its substance is prohibited. If you have received this communication in error, please call us collect to arrange for the destruction of the communication or its return to us at our expense. Thank you.



THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE

ROUTE 202, P.O. BOX 300, RARITAN, NEW JERSEY 08869-0602

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M...
11/2/01 and 11/5/01
VAD

DESK COPY

02 NOV 2001

Dr. Susan Allen, MD, Director
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Evaluation III, (HFD-580)
Division of Reproductive and Urologic Drug
Product
Attn.: Document Control Room 14B-04
5600 Fishers Lane
Rockville, Maryland 20857-1706

NDA 21-180
ORTHO EVRA™
(norelgestromin/ethinyl estradiol
transdermal system)

General Correspondence:
Response to FDA Request For
Information

Dear Dr. Allen:

Reference is made to pending New Drug Application (NDA) 21-180 for ORTHO EVRA™, a norelgestromin (NGMN) and ethinyl estradiol (EE) transdermal contraceptive system, submitted on 20 December 2000. We are providing information at this time as per Dr. Chatterjee's 18 October 2001 email request. The FDA question appears below in bold face type and the RWJPRI response appears below it.

Question: Does the sponsor have any data information regarding the residual amount of drug content in the patches after use (7 days), or any data that indicates what % of the loaded drug is released from the patch on to the skin in 7 days (not just what is bioavailable)?

Response:

Tables 1-3 show the data requested by the reviewer. The data were generated by analyzing patches from human subjects for norelgestromin (NGMN) and ethinyl estradiol (EE), after the patches had been worn for 7 days. The apparent quantity of drug delivered (in % Formula Strength) was calculated by subtracting the quantity of drug remaining in the patch from the quantity in the control (unused patches). For study NRGEEP-PHI-003, the quantity of drug in the control patches was determined in a separate assay while for studies NRGEEP-PHI-004 and NRGEEP-PHI-005, the batch release assay values were used as the "control."

Tables 1-3 show the data available from the three studies cited above after 7 days of treatment. For studies NRGEEP-PHI-003 and -005, the patch was worn on the abdomen while for study NRGEEP-PHI-004, the patch was worn on different areas of the body (upper outer arm, abdomen, upper torso or buttock) as indicated in Table 2.

On examination of the data, it is clear that there is considerable variability in the data for apparent amounts of each drug delivered. For example, considering only the abdomen as the application site, the average apparent amounts of drug delivered (in the three studies) range from 164.6 to 276.9 $\mu\text{g}/\text{day}$ for NGMN and from 29.9 to 42.9 $\mu\text{g}/\text{day}$ for EE. When one includes the standard deviations, the range is 119.2 to 387.5 $\mu\text{g}/\text{day}$ for NGMN and 19.1 to 60.9 $\mu\text{g}/\text{day}$ for EE. Therefore, it is difficult to draw any firm conclusions on the true amount of drug delivered to the systemic circulation from these data. Our opinion is that the calculated apparent amount of drug delivered is, at best, a crude method of determining how much drug is actually delivered from the patch to the surface of the skin and does not reflect either the absolute dose delivered to the systemic circulation or the relative dose comparable to an oral contraceptive tablet.

At the time these determinations were done, they were being used as a development tool to help assess our progress in achieving the target quantities of actives in the patch and in the systemic circulation. They were not done in an attempt to achieve mass balance, which is a much more demanding and difficult exercise. For example, the skin was not swabbed and any residual adhesive collected to account for drug on the skin at the time the patch was removed. For these reasons, we are of the opinion that the data provided here represent estimates of the apparent amounts of delivered drug to the surface of the skin and do not accurately reflect the quantity of each drug delivered into the circulation.

In the past, "difference" methods, which indirectly estimated the daily dose have been used. Doses were estimated, by difference, via subtraction of the residual amounts in the patch following removal after wear, from the amount of drug(s) present from unused patches, added to that extracted from the skin. Even with such precautions, such methods tend to be highly variable, and could lead to inaccurate estimations of the amount of drug delivered systemically. Such variability stems from the variability in patch extraction, skin extraction, and the large difference between what is actually in the patch and the small amount delivered per day.

The shortcomings of this approach were discussed with the agency on August 31, 1998 and, at the time, the more direct approach of determining the dose delivered to the systemic circulation (described in draft protocol of NRGEEP-PHI-014 submitted to the agency) was deemed acceptable. It was subsequently performed as study NRGEEP-PHI-014, a report of which was submitted in the NDA (Item 6/Item Volumes 2-3/Page1).

**APPEARS THIS WAY
ON ORIGINAL**

APPEARS THIS WAY
ON ORIGINAL

Table 1: Residual Drug Content Data From Study No. NRGEEP-PHI-003 Lot 00096) Following One Week of Wear on the Abdomen

Subject ^a	% Remaining (% FS)	
	Norelgestromin	Ethinyl estradiol
Mean (sd)	79.4 (±5.3)	70.3 (±10.1)
Control (6 unused samples)	NGMN (% FS)	EE (% FS)
Mean	98.6	98.2
	NGMN (% FS)	EE (% FS)
% "delivered" in 7 days	19.2 (±5.3)	27.9 (±10.1)
	NGMN (μg)	EE (μg)
Amount "delivered" per day	164.6* (±45.4)	29.9** (±10.8)

^a The subject numbers as presented are internal code numbers which correspond to three digit subject numbers in the study report.
 * Sample calculation: $19.2 \times 6000 \mu\text{g}/(100 \times 7 \text{ days}) = 164.6 \mu\text{g}/\text{day}$
 ** Sample calculation: $27.9 \times 750 \mu\text{g}/(100 \times 7 \text{ days}) = 29.9 \mu\text{g}/\text{day}$

Table 2: Residual Drug Content Data From Study No. NRGEET-PHI-004 (), Following One Week of Wear

Subject ^a	% Remaining (% FS)							
	Norelgestromin				Ethinyl estradiol			
	Outer Arm	Abdomen	Torso	Buttock	Outer Arm	Abdomen	Torso	Buttock

Mean (sd)	67.1 (±7.9)	65.6 (±12.9)	62.8 (±11.8)	65.2 (±8.4)	56.0 (±10.4)	55.4 (±16.8)	50.4 (±14.4)	52.9 (±13.5)
Control (Batch Release)	NGMN (% FS)				EE (% FS)			
Assay Result	97.9%				95.4%			
% "delivered" in 7 days	30.8 (±7.9)	32.3 (±12.9)	35.1 (±11.8)	32.7 (±8.4)	39.4 (±10.4)	40.0 (±16.8)	45.0 (±14.4)	42.5 (±13.5)
Amount "delivered" per day	264.0 (±67.7)	276.9 (±110.6)	300.9 (±101.2)	280.3 (±72.0)	42.2 (±11.2)	42.9 (±18.0)	48.2 (±15.4)	45.5 (±14.5)

^a The subject numbers as presented are internal code numbers which correspond to three digit subject numbers in the study report.

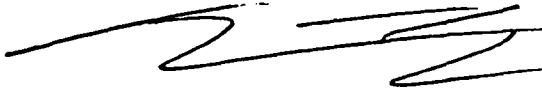
^b Patient 37 replaced Patient 21, who withdrew from the study.

ND = Not Determined

Should you have any questions and/or comments, please contact me at (908) 704-4812, contact Valerie Donnelly at (908) 704-5891 or call our telephone line dedicated for FDA use at (908) 704-4600.

Sincerely,

The R.W. Johnson Pharmaceutical Research Institute



Ramon Polo, PhD
Director
Regulatory Affairs

Send 1 desk copy to Dr. Dhruba J Chatterjee, FDA/DRUDP/HFD-580

**APPEARS THIS WAY
ON ORIGINAL**

DEPARTMENT OF HEALTH AND HUMAN SERVICES
FOOD AND DRUG ADMINISTRATION

Form Approved: OMB No. 0910-0338
Expiration Date: March 31, 2003
See OMB Statement on page 2.

APPLICATION TO MARKET A NEW DRUG, BIOLOGIC, OR AN
ANTIBIOTIC DRUG FOR HUMAN USE

(Title 21, Code of Federal Regulations, 314 & 601)

FOR FDA USE ONLY

APPLICATION NUMBER

APPLICANT INFORMATION

NAME OF APPLICANT The R.W. Johnson Pharmaceutical Research Institute		DATE OF SUBMISSION 02 NOV 2001
TELEPHONE NO. (Include Area Code) (908) 704-4812	FACSIMILE (FAX) Number (Include Area Code) (908) 203-1499	
APPLICANT ADDRESS (Number, Street, City, State, Country, ZIP Code or Mail Code, and U.S. License number if previously issued): 920 Route 202 South P.O. Box 300 Raritan, New Jersey 08869-0602	AUTHORIZED U.S. AGENT NAME & ADDRESS (Number, Street, City, State, ZIP Code, telephone & FAX number) IF APPLICABLE	

PRODUCT DESCRIPTION

NEW DRUG OR ANTIBIOTIC APPLICATION NUMBER, OR BIOLOGICS LICENSE APPLICATION NUMBER (If previously issued) NDA 21-180		
ESTABLISHED NAME (e.g., Proper name, USP/USAN name) norelgestromin and ethinyl estradiol	PROPRIETARY NAME (trade name) IF ANY ORTHO EVRA™	
CHEMICAL/BIOCHEMICAL/BLOOD PRODUCT NAME (If any)	CODE NAME (If any)	
DOSAGE FORM: transdermal patch	STRENGTHS: 6 mg norelgestromin 0.75 mg ethinyl estradiol	ROUTE OF ADMINISTRATION: Transdermal
(PROPOSED) INDICATION(S) FOR USE: Prevention of Pregnancy		

APPLICATION INFORMATION

APPLICATION TYPE (check one) <input checked="" type="checkbox"/> NEW DRUG APPLICATION (21 CFR 314.50) <input type="checkbox"/> ABBREVIATED APPLICATION (ANDA, AADA, 21 CFR 314.94) <input type="checkbox"/> BIOLOGICS LICENSE APPLICATION (21 CFR part 601)	
IF AN NDA, IDENTIFY THE APPROPRIATE TYPE <input type="checkbox"/> 505 (b) (1) <input type="checkbox"/> 505 (b) (2)	
IF AN ANDA, OR AADA, IDENTIFY THE REFERENCE LISTED DRUG PRODUCT THAT IS THE BASIS FOR THE SUBMISSION Name of Drug _____ Holder of Approved Application _____	
TYPE OF SUBMISSION (check one) <input type="checkbox"/> ORIGINAL APPLICATION <input type="checkbox"/> AMENDMENT TO A PENDING APPLICATION <input type="checkbox"/> RESUBMISSION <input type="checkbox"/> PRESUBMISSION <input type="checkbox"/> ANNUAL REPORT <input type="checkbox"/> ESTABLISHMENT DESCRIPTION SUPPLEMENT <input type="checkbox"/> EFFICACY SUPPLEMENT <input type="checkbox"/> LABELING SUPPLEMENT <input type="checkbox"/> CHEMISTRY MANUFACTURING AND CONTROLS SUPPLEMENT <input checked="" type="checkbox"/> OTHER	
IF A SUBMISSION OR PARTIAL APPLICATION, PROVIDE LETTER DATE OF AGREEMENT TO PARTIAL SUBMISSION: _____	
IF A SUPPLEMENT, IDENTIFY THE APPROPRIATE CATEGORY <input type="checkbox"/> CBE <input type="checkbox"/> CBE-30 <input type="checkbox"/> Prior Approval (PA)	
REASON FOR SUBMISSION RESPONSE TO FDA REQUEST FOR INFORMATION	
PROPOSED MARKETING STATUS (check one) <input checked="" type="checkbox"/> PRESCRIPTION PRODUCT (Rx) <input type="checkbox"/> OVER THE COUNTER PRODUCT (OTC)	
NUMBER OF VOLUMES SUBMITTED _____	THIS APPLICATION IS <input type="checkbox"/> PAPER <input type="checkbox"/> PAPER AND ELECTRONIC <input type="checkbox"/> ELECTRONIC

ESTABLISHMENT INFORMATION (Full establishment should be provided in the body of the Application.)
Provide locations of all manufacturing, packaging and control sites for drug substance and drug product (continuation sheets may be used if necessary). Include name, address, contact, telephone number, registration number (CFN), DMF number, and manufacturing steps and/or type of testing (e.g. Final dosage form, Stability testing) conducted at the site. Please indicate whether the site is ready for inspection or, if not, when it will be ready.

References (list related License Applications, INDs, NDAs, PMAs, 510(k)s, IDEs, BMFs, and DMFs referenced in the current application)

This application contains the following items: (Check all that apply)

<input type="checkbox"/>	1. Index
<input type="checkbox"/>	2. Labeling (check one) <input type="checkbox"/> Draft Labeling <input type="checkbox"/> Final Printed Labeling
<input checked="" type="checkbox"/>	3. Summary (21 CFR 314.50 (c))
<input checked="" type="checkbox"/>	4. Chemistry section
<input type="checkbox"/>	A. Chemistry, manufacturing, and controls information (e.g. 21 CFR 314.50 (d) (1), 21 CFR 601.2)
<input type="checkbox"/>	B. Samples (21 CFR 314.50 (e) (1), 21 CFR 601.2 (a)) (Submit only upon FDA's request)
<input type="checkbox"/>	C. Methods validation package (e.g. 21 CFR 314.50 (e) (2) (i), 21 CFR 601.2)
<input type="checkbox"/>	5. Nonclinical pharmacology and toxicology section (e.g. 21 CFR 314.50 (d) (2), 21 CFR 601.2)
<input type="checkbox"/>	6. Human pharmacokinetics and bioavailability section (e.g. 21 CFR 314.50 (d) (3), 21 CFR 601.2)
<input type="checkbox"/>	7. Clinical Microbiology (e.g. 21 CFR 314.50 (d) (4))
<input type="checkbox"/>	8. Clinical data section (e.g. 21 CFR 314.50 (d) (5), 21 CFR 601.2)
<input type="checkbox"/>	9. Safety update report (e.g. 21 CFR 314.50 (d) (5) (vi) (b), 21 CFR 601.2)
<input type="checkbox"/>	10. Statistical section (e.g. 21 CFR 314.50 (d) (6), 21 CFR 601.2)
<input type="checkbox"/>	11. Case report tabulations (e.g. 21 CFR 314.50 (f) (1), 21 CFR 601.2)
<input type="checkbox"/>	12. Case reports forms (e.g. 21 CFR 314.50 (f) (2), 21 CFR 601.2)
<input type="checkbox"/>	13. Patent information on any patent which claims the drug (21 U.S.C 355 (b) or (c))
<input type="checkbox"/>	14. A patent certification with respect to any patent which claims the drug (21 U.S.C 355 (b) (2) or (j) (2) (A))
<input type="checkbox"/>	15. Establishment description (21 CFR Part 600, if applicable)
<input type="checkbox"/>	16. Debarment certification (FD&C Act 306 (k) (1))
<input type="checkbox"/>	17. Field copy certification (21 CFR 314.50 (k) (3))
<input type="checkbox"/>	18. User Fee Cover Sheet (Form FDA 3397)
<input checked="" type="checkbox"/>	19. Financial Information (21 CFR Part 54)
<input type="checkbox"/>	20. OTHER (Specify) RESPONSE TO FDA REQUEST FOR INFORMATION

CERTIFICATION

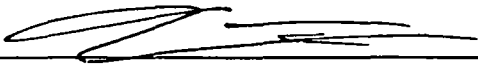
I agree to update this application with new safety information about the product that may reasonably affect the statement of contraindications, warnings, precautions, or adverse reactions in the draft labeling. I agree to submit safety update reports as provided for by regulation or as requested by FDA. If this application is approved, I agree to comply with all applicable laws and regulations that apply to approved applications, including, but not limited to the following:

1. Good manufacturing practice regulations in 21 CFR 210 and 211, 606 and/or 820.
2. Biological establishment standards in 21 CFR Part 600.
3. Labeling regulations in 21 CFR 201, 606, 610, 660 and/or 809.
4. In the case of a prescription drug or biological product, prescription drug advertising regulations in 21 CFR 202.
5. Regulations on making changes in application in 21 CFR 314.70, 314.71, 314.72, 314.97, 314.99, and 601.12.
6. Regulations on reports in 21 CFR 314.80, 314.81, 600.80 and 600.81.
7. Local, state and Federal environmental impact laws.

If this application applies to a drug product that FDA has proposed for scheduling under the Controlled Substances Act I agree not to market the product until the Drug Enforcement Administration makes a final scheduling decision.

The data and information in this submission have been reviewed and, to the best of my knowledge are certified to be true and accurate.

Warning: a willfully false statement is a criminal offense, U.S. Code, title 18, section 1001.

SIGNATURE OF RESPONSIBLE OFFICIAL OR AGENT 	TYPED NAME AND TITLE Ramon Polo, PhD Director, Regulatory Affairs	DATE 02 NOV 2001
ADDRESS (Street, City, State, and ZIP Code) 920 Route 202 South, P.O. Box 390 Raritan, New Jersey 08869-0602		Telephone Number (908) 704-4812

Public reporting burden for this collection of information is estimated to average 40 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to:

Department of Health and Human Services
Food and Drug Administration
CBER, HFM-99
1401 Rockville Pike
Rockville, MD 20852-1448

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.



THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE

ROUTE 202, P.O. BOX 300, RARITAN, NEW JERSEY 08869-0602

Susan Allen, MD, Director
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Evaluation III, (HFD-580)
Division of Reproductive and Urologic Drug
Products

Attn.: Document Control Room 14B-04
5600 Fishers Lane
Rockville, Maryland 20857-1706

NDA 21-180
ORTHO EVRA™
(norelgestromin/ethinyl estradiol
transdermal system)

Amendment to a Pending
Application:
Request for Marketing
Exclusivity

Dear Dr. Allen:

Reference is made to pending New Drug Application (NDA) 21-180, submitted on 21 December 2000, for ORTHO EVRA™, a norelgestromin and ethinyl estradiol transdermal system. Reference is also made to 21 CFR 314.50 (j) Claimed Exclusivity.

The R.W. Johnson Pharmaceutical Institute is claiming marketing exclusivity under 21 CFR 314.108 (b)(2). We hereby certify, to the best of our knowledge, this drug has not previously been approved under section 505(b) of the act containing any active moiety in the drug for which we are seeking approval.

Should you have any questions and/or comments, please contact me directly at (908) 704-4812, call Valerie Donnelly at (908) 704-5891 or call our telephone line dedicated for FDA use at (908) 704-4600.

Sincerely,

The RW Johnson Pharmaceutical Research Institute

Ramon Polo, PhD
Director, Regulatory Affairs



1

**THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE**

920 Route 202, P.O. Box 300 Raritan, NJ 08869-0602

Fax Cover Sheet

Date:	November 8, 2001	Pages:	02
To:	Jennifer Mercier	From:	Karen Futterknecht
Dept.:	FDA	Dept.:	Regulatory Affairs
Fax #:		Fax #:	908-722-5113
Telephone #:	301-827-4267	Telephone #:	908-704-4912
	301-827-4249		

Comments: Dear Jennifer,
Attached is our request for marketing exclusivity.

Best regards,

Karen F.
Karen

ORIGINAL

SUBMISSION FAXED
NOV 1 2001 (Jan)

THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE
ROUTE 202, P.O. BOX 100, RARITAN, NEW JERSEY 08859-0002



FDA ONE

Dr. Susan Allen, MD, Director
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Evaluation III, (HFD-580)
Division of Reproductive and Urologic Drug
Product
Attn.: Document Control Room 14B-04
5600 Fishers Lane
Rockville, Maryland 20857-1706

NDA 21-180
ORTHO EVRA™
(norelgestromin/ethinyl estradiol
transdermal system)

General Correspondence:
Response to Request for CM&C
Information

Dear Dr. Allen:

Reference is made to pending New Drug Application (NDA) 21-180 for ORTHO EVRA™, a norelgestromin (NGMN) and ethinyl estradiol (EE) transdermal contraceptive system, submitted on 20 December 2000. At this time we wish to provide additional CM&C information as requested by the CMC Reviewer in an email message dated 29 October 2001. This letter is formatted with the FDA request in **boldface type** followed by RWJPRI's response.

Chemistry, Manufacturing and Controls Information:

The Chemistry Reviewer's email stated, "I still need the items below to complete my review":

1. **Revised specification sheets for norelgestromin and ethinyl estradiol.**

The revised specification sheets for norelgestromin and ethinyl estradiol are provided behind the Attachment titled, "Revised Specifications/NGMN & EE".

2. **Test method and acceptance criteria for polyethylene terephthalate and**

The requested test method and acceptance criteria were mailed to FDA on 30 October 2001, directly from _____, the supplier of the backing material, also faxed this information directly to FDA on 31 October 2001. This information was sent to the attention of Dr. Susan Allen at the DRUDP.

3. **The storage conditions on pouch, carton and packer tray labels should be changed as follows: "Store at controlled temperature at 25 C, excursion permitted to 15-30 C.**

N:\ALTR\110101cmc resp to fda req info doc\01 November 2001\JU

LA JOLLA

RARITAN

SPRING HOUSE

ZURICH

RWJPRI agrees to revise the storage conditions as requested by FDA. We will however; change the word "excursion" to "excursions".

4. The picture of the dancing woman on all labels provided in amendment dated 05 October 2001, should be removed.

Although we acknowledge this request, RWJPRI believes that this logo should remain on the packaging components provided on 05 October 2001. Similar to other contraceptive and hormone replacement products on the market, we believe that the dancing woman is acceptable and does not warrant removal.

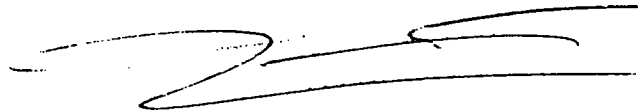
5. The established name of the drug product, "norelgestromin/ethinyl estradiol transdermal system" on pouch and carton labels in the amendment dated 05 October 2001, should be printed darker for ease of reading.

RWJPRI agrees to print the requested text darker for ease of reading.

Should you have any questions and/or comments, please contact me at (908) 704-4812, contact Valerie Donnelly at (908) 704-5891 or call our telephone line dedicated for FDA use at (908) 704-4600.

Sincerely,

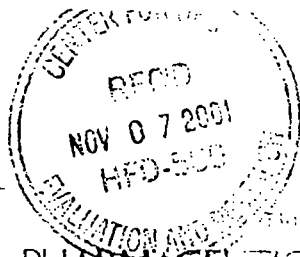
The R.W. Johnson Pharmaceutical Research Institute



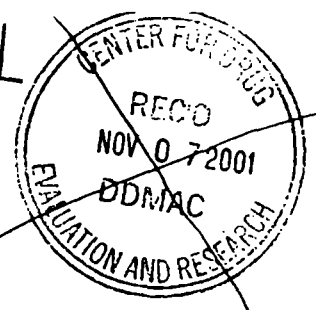
Ramon Polo, PhD
Director
Regulatory Affairs

cc: Desk copy to Dr. Amit Mitra, CM&C Reviewer HFD-580

REVISIONS	DATE
<input type="checkbox"/> LETTER	<input type="checkbox"/> FAX



ORIGINAL



PHARMACEUTICAL RESEARCH INSTITUTE

ROUTE 202 P.O. BOX 300 RARITAN NJ 08869-1602

06 NOV 2001

Dr. Susan Allen, MD, Director
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Evaluation III, (HFD-580)
Division of Reproductive and Urologic Drug
Product
Attn.: Document Control Room 14B-04
5600 Fishers Lane
Rockville, Maryland 20857-1706

NDA 21-180
ORTHO EVRA™
(norelgestromin/ethinyl estradiol
transdermal system)

BC
NDA ORIG AMENDMENT

Amendment to a Pending
Application:

Response to FDA Request For
CM&C Information

Dear Dr. Allen:

Reference is made to pending New Drug Application (NDA) 21-180 for ORTHO EVRA™, a norelgestromin (NGMN) and ethinyl estradiol (EE) transdermal contraceptive system, submitted on 20 December 2000. Reference is also made to the Chemistry Reviewer's 02 November 2001 request to revise the storage conditions of the drug product. At this time we wish to amend the NDA with the following response. The FDA request appears below in bold face type and the RWJPRI response follows.

As per the stability guidance, please revise the storage conditions on the pouch, carton, and packer trays to add the equivalent degrees in Farenheit to the temperatures listed. The statement should read, "Store at controlled temperature at 25 °C (77 °F), excursions permitted to 15-30 °C (59-86 ° F)."

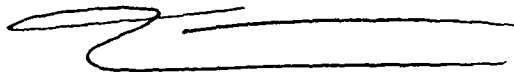
RWJPRI agrees to make the change to the storage conditions as described above to the packaging components. In addition, to remain consistent, the USPI will be revised in the same manner and submitted during label negotiations with the Agency.

Should you have any questions and/or comments, please contact me at (908) 704-4812, contact Valerie Donnelly at (908) 704-5891 or call our telephone line dedicated for FDA use at (908) 704-4600.

REVIEWED	
CONTACTED	
LETTER	
CSO INITIALS	DATE

Sincerely,

The R. W. Johnson Pharmaceutical Research Institute



Ramon Polo, PhD
Director
Regulatory Affairs

Send 1 desk copy to: Dr. Amit Mitra, FDA/DRUDP/HFD-580, Reviewing Chemist

**APPEARS THIS WAY
ON ORIGINAL**

THE R. W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE

ROUTE 202, P.O. BOX 709, RARITAN, NEW JERSEY 08859-0502



FILED 11/2/01 and 11/5/01
(v. 11)

02 NOV 2001

ORIG AMENDMENT
21

Dr. Susan Allen, MD, Director
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Evaluation III, (HFD-580)
Division of Reproductive and Urologic Drug
Product
Attn.: Document Control Room 14B-04
5600 Fishers Lane
Rockville, Maryland 20857-1706

NDA 21-180
ORTHO EVRA™
(norelgestromin/ethinyl estradiol
transdermal system)

General Correspondence:
Response to FDA Request For
Information

Dear Dr. Allen:

Reference is made to pending New Drug Application (NDA) 21-180 for ORTHO EVRA™, a norelgestromin (NGMN) and ethinyl estradiol (EE) transdermal contraceptive system, submitted on 20 December 2000. We are providing information at this time as per Dr. Chatterjee's 18 October 2001 email request. The FDA question appears below in bold face type and the RWJPRI response appears below it.

Question: Does the sponsor have any data information regarding the residual amount of drug content in the patches after use (7 days), or any data that indicates what % of the loaded drug is released from the patch on to the skin in 7 days (not just what is bioavailable)?

Response:

Tables 1-3 show the data requested by the reviewer. The data were generated by analyzing patches from human subjects for norelgestromin (NGMN) and ethinyl estradiol (EE), after the patches had been worn for 7 days. The apparent quantity of drug delivered (in % Formula Strength) was calculated by subtracting the quantity of drug remaining in the patch from the quantity in the control (unused patches). For study NRGEEP-PHI-003, the quantity of drug in the control patches was determined in a separate assay while for studies NRGEEP-PHI-004 and NRGEEP-PHI-005, the batch release assay values were used as the "control."

Tables 1-3 show the data available from the three studies cited above after 7 days of treatment. For studies NRGEEP-PHI-003 and -005, the patch was worn on the abdomen while for study NRGEEP-PHI-004, the patch was worn on different areas of the body (upper outer arm, abdomen, upper torso or buttock) as indicated in Table 2.

On examination of the data, it is clear that there is considerable variability in the data for apparent amounts of each drug delivered. For example, considering only the abdomen as the application site, the average apparent amounts of drug delivered (in the three studies) range from 164.6 to 276.9 $\mu\text{g}/\text{day}$ for NGMN and from 29.9 to 42.9 $\mu\text{g}/\text{day}$ for EE. When one includes the standard deviations, the range is 119.2 to 387.5 $\mu\text{g}/\text{day}$ for NGMN and 19.1 to 60.9 $\mu\text{g}/\text{day}$ for EE. Therefore, it is difficult to draw any firm conclusions on the true amount of drug delivered to the systemic circulation from these data. Our opinion is that the calculated apparent amount of drug delivered is, at best, a crude method of determining how much drug is actually delivered from the patch to the surface of the skin and does not reflect either the absolute dose delivered to the systemic circulation or the relative dose comparable to an oral contraceptive tablet.

At the time these determinations were done, they were being used as a development tool to help assess our progress in achieving the target quantities of actives in the patch and in the systemic circulation. They were not done in an attempt to achieve mass balance, which is a much more demanding and difficult exercise. For example, the skin was not swabbed and any residual adhesive collected to account for drug on the skin at the time the patch was removed. For these reasons, we are of the opinion that the data provided here represent estimates of the apparent amounts of delivered drug to the surface of the skin, and do not accurately reflect the quantity of each drug delivered into the circulation.

In the past, "difference" methods, which indirectly estimated the daily dose have been used. Doses were estimated, by difference, via subtraction of the residual amounts in the patch following removal after wear, from the amount of drug(s) present from unused patches, added to that extracted from the skin. Even with such precautions, such methods tend to be highly variable, and could lead to inaccurate estimations of the amount of drug delivered systemically. Such variability stems from the variability in patch extraction, skin extraction, and the large difference between what is actually in the patch and the small amount delivered per day.

REVIEWS COMPLETED	
CSO INITIALS	DATE

The shortcomings of this approach were discussed with the agency on August 31, 1998 and, at the time, the more direct approach of determining the dose delivered to the systemic circulation (described in draft protocol of NRGEEP-PHI-014 submitted to the agency) was deemed acceptable. It was subsequently performed as study NRGEEP-PHI-014, a report of which was submitted in the NDA (Item 6/Item Volumes 2-3/Page1).

**APPEARS THIS WAY
ON ORIGINAL**

Table 1: Residual Drug Content Data From Study No. NRGEEP-PHI-003 (of 00096) Following One Week of Wear on the Abdomen

Subject ^a	% Remaining (% FS)	
	Norelgestromin	Ethinyl estradiol
Mean (sd)	79.4 (±5.3)	70.3 (±10.1)
Control (6 unused samples)	NGMN (% FS)	EE (% FS)
Mean	98.6	98.2
	NGMN (% FS)	EE (% FS)
% "delivered" in 7 days	19.2 (±5.3)	27.9 (±10.1)
	NGMN (µg)	EE (µg)
Amount "delivered" per day	164.6* (±45.4)	29.9** (±10.8)

^a The subject numbers as presented are internal code numbers which correspond to three digit subject numbers in the study report.
 * Sample calculation: $19.2 \times 6000 \mu\text{g} / (100 \times 7 \text{ days}) = 164.6 \mu\text{g/day}$
 ** Sample calculation: $27.9 \times 750 \mu\text{g} / (100 \times 7 \text{ days}) = 29.9 \mu\text{g/day}$

Table 3: Residual Drug Content Data From Study No. NRGEEP-PHI-005 / Lot 00636) Following One Week of Wear on the Abdomen

Subject ^a	% Remaining (% FS)	
	Norelgestromin	Ethinyl estradiol
Mean (sd)	68.2 (\pm 5.8)	59.6 (\pm 7.7)
Control (Batch Release)	NGMN (% FS)	EE (% FS)
Assay Result	97.9	95.4
	NGMN (% FS)	EE (% FS)
% "delivered" in 7 days	29.7 (\pm 5.8)	35.8 (\pm 7.7)
	NGMN (μ g)	EE (μ g)
Amount "delivered" per day	254.6 (\pm 49.7)	38.4 (\pm 8.2)

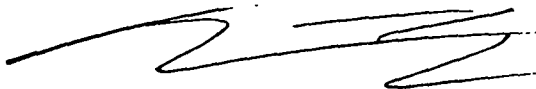
^a The subject numbers as presented are internal code numbers which correspond to three digit subject numbers in the study report.

**APPEARS THIS WAY
ON ORIGINAL**

Should you have any questions and/or comments, please contact me at (908) 704-4812, contact Valerie Donnelly at (908) 704-5891 or call our telephone line dedicated for FDA use at (908) 704-4600.

Sincerely,

The R.W. Johnson Pharmaceutical Research Institute



Ramon Polo, PhD
Director
Regulatory Affairs

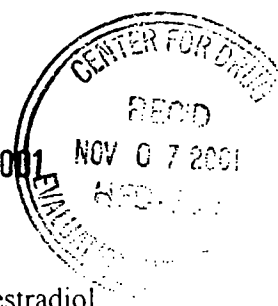
Send 1 desk copy to Dr. Dhruba J Chatterjee, FDA/DRUDP/HFD-580

**APPEARS THIS WAY
ON ORIGINAL**

ORIGINAL

SUBMISSION FAX 01
01

THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE
ROUTE 202, P.O. BOX 300, RARITAN, NEW JERSEY 08859-0300



NDA ORIG AMENDMENT N-132

01 NOV 2001

Susan Allen, MD, Director
Division of Reproductive and Urologic
Drug Products HFD-580

NDA 21-180
ORTHO EVRA™
(norelgestromin/ethinyl estradiol
transdermal system)

Center for Drug Evaluation and Research
Food and Drug Administration
Attn.: Document Control Room 14B-04

AMENDMENT TO A
PENDING APPLICATION:
Labels/Labeling Information and
Chemistry, Manufacturing &
Controls Information

5600 Fishers Lane
Rockville, Maryland 20857-1706

Dear Dr. Allen:

Reference is made to our pending NDA 21-180 for ORTHO EVRA™ and to the draft package components submitted with the original application on 20 December 2000 NDA (Item 2, Item Volume 1, Pages 52-59). Reference is also made to the draft packaging components that were amended to the pending application on 05 October 2001. At this time we would like to amend the NDA with a revised packaging component for the finished drug product replacement patch. A copy of the replacement patch overwrap and carton are included in this submission. This amendment is being provided at this time in order to gain a preliminary review of the text and text formatting planned.

Please note that these components were prepared prior to receiving Dr. Mitra's 29 October 2001 comments on the packaging components that were submitted to the Agency on 05 October 2001. Thus, as agreed, we will darken the text on the established name of the drug product, "norelgestromin/ethinyl estradiol transdermal system" on this replacement patch pouch and carton and revise the storage conditions to reflect, "store at controlled temperature at 25° C, excursions permitted to 15 - 30° C."

Labels/Labeling Information Enclosed:

- One black and white copy of the pouch overlabel to be applied to replacement pouches (quantity 1)
- One color copy of the replacement patch carton -Trade (quantity 1)

Chemistry, Manufacturing and Controls Information:

In addition, we would like to know if the CMC Reviewer has considered our 05 October and 12 October 2001 requests to include the two additional inactive

N:\C:\mtr\110101 package comp amend & cmc status doc

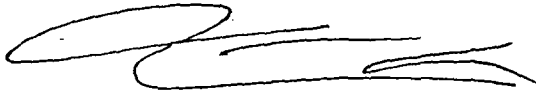
ingredients, "polyester backing film laminate" and "polyester release liner" on the cartons but not on the pouch labels. Due to space limitations, we are not able to add this additional text to the pouch labels without jeopardizing the readability of the pouch text.

Lastly, in the 24 October 2001 submission, RWJPRI agreed to change the drug product appearance specification upon approval, to include the following sentence, "*No change in surface area of the transdermal system should occur while removing the transdermal system from the pouch.*" We would like to know if the CMC Reviewer has reached a decision on our 24 October 2001 request to distribute, on approval, the batches that were manufactured prior to approval using the old appearance specification for the drug product.

If you have questions regarding this information please contact me at (908)-704-4812 or Valerie Donnelly at (908)-704-5891 or our dedicated number for FDA use (908)-704-4600.

Sincerely,

The RW Johnson Pharmaceutical Research Institute



Ramon Polo Ph.D.
Director
Regulatory Affairs

Send 1 desk copy to: Dr. Amit Mitra, FDA/DRUDP/HFD-580, Reviewing Chemist

**APPEARS THIS WAY
ON ORIGINAL**

REVIEWS COMPLETED	
CSO ACTION:	
<input type="checkbox"/> LETTER	<input type="checkbox"/> N.A.I. <input type="checkbox"/> MEMO
CSO INITIALS	DATE

PHARMACEUTICAL RESEARCH



ORIG AMENDMENT

30 OCT 2001

Dr. Susan Allen, MD, Director
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Evaluation III, (HFD-580)
Division of Reproductive and Gologic Drug

NDA 21-180
ORTHO EVRA™
(norelgestromin/ethinyl estradiol
transdermal system)

Product
Attn.: Document Control Room 14B-04
5600 Fishers Lane
Rockville, Maryland 20857-1706

General Correspondence:
Response to FDA Request For
Information

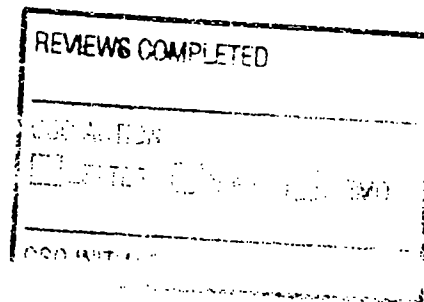
Dear Dr. Allen:

Reference is made to pending New Drug Application (NDA) 21-180 for ORTHO EVRA™, a norelgestromin (NGMN) and ethinyl estradiol (EE) transdermal contraceptive system, submitted on 20 December 2000. We are providing information at this time as per the Biopharm Reviewer's requests received via email on 18 October 2001. The FDA question appears on the following pages in bold face type and the RWJPRI response appears after it. In addition, the last page of this submission contains a correction to the 12 October 2001 submission which contained responses to FDA's 27 September 2001, CM&C, Discipline Review Letter. We apologize for this error.

Should you have any questions and/or comments, please contact me at (908) 704-4812, contact Valerie Donnelly at (908) 704-5891 or call our telephone line dedicated for FDA use at (908) 704-4600.

Sincerely,

Ramon Polo, PhD
Director
Regulatory Affairs



Send 1 Desk Copy to: Dr. Amit Mitra, Reviewing Chemist
FDA/DRUDP HFD-580
Rockville, MD 20857
Phone No: (301) 827-4260



ORIG AMENDMENT

29 OCT 2001

Dr. Susan Allen, MD, Director
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Evaluation III, (HFD-580)
Division of Reproductive and Urologic Drug
Product
Attn.: Document Control Room 14B-04
5600 Fishers Lane
Rockville, Maryland 20857-1706

NDA 21-180
ORTHO EVRA™
(norelgestromin/ethinyl estradiol
transdermal system)

General Correspondence:
Response to FDA Request For
Information

Dear Dr. Allen:

Reference is made to pending New Drug Application (NDA) 21-180 for ORTHO EVRA™, a norelgestromin (NGMN) and ethinyl estradiol (EE) transdermal contraceptive system, submitted on 20 December 2000. We are providing information at this time as per the Medical Reviewer's request received via email on 19 October 2001 and as per Ms. Mercier's request on 09 August 2001 (response number 8 for Subject No. 1181). The FDA question appears below in bold face type and the RWJPRI response appears below it.

1. **Pregnancy outcomes for 15 on-therapy pregnancies and Subject 20018 (site 1025 in study 002).**

This information is provided in the Four-Month Safety Update submitted 12 April 2001. Another copy of this update can be provided if necessary.

2. a. **Site # for subject 21014 in study 002**
b. **Study, site#, subject# for subjects with the following SAEs:**
Depression
Psychosis manic-depression
Suicide attempt

See Attachment 1.

CSO ACTION
<input type="checkbox"/> LETTER <input type="checkbox"/> PHONE <input type="checkbox"/> MEETING
CSO INITIALS
DATE

3. For each of the following parameter listed below, please provide the mean, median, range and

- a. # of days per cycle of expected bleeding/spotting during the drug-free interval
- b. # of days per cycle of unexpected bleeding/spotting during the 21 day drug administration interval
- c. total # of days of bleeding/spotting per cycle
- d. duration of withdrawal bleeding (expected menses)

See Attachment 2.

4. a. give the % of subjects per cycle with ≥ 7 days of bleeding and/or spotting
- b. give the % of subjects per cycle with > 10 days of bleeding and/or spotting

See Attachment 3.

5. a. per cycle, the % of subjects with amenorrhea (no withdrawal bleed during drug free interval)
- b. per cycle, the % of subjects with amenorrhea for any 2 cycles (do not have to be consecutive)
- c. per cycle, the % of subjects with amenorrhea for ≥ 3 cycles (do not have to be consecutive)

See Attachment 4.

6. a. % of subjects who reported at least 1 episode of breakthrough bleeding and/or spotting (BBT) at any time during the study
- b. % of subjects with BBT in cycles 1-3
- c. % of subjects with BBT in cycles 11-13

See Attachment 5.

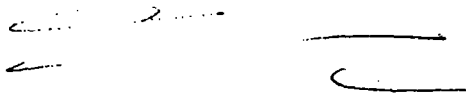
7. Expected day of onset of withdrawal bleeding (menses) during drug free interval.

See Attachment 6.

Should you have any questions and/or comments, please contact me at (908) 704-4812, contact Valerie Donnelly at (908) 704-5891 or call our telephone line dedicated for FDA use at (908) 704-1600.

Sincerely,

The R.W. Johnson Pharmaceutical Research Institute


Ramon Polo, PhD
Director
Regulatory Affairs

Desk copy to : Dr. Daniel Davis
Medical Reviewer, DRUDP

APPEARS THIS WAY
ON ORIGINAL

ORIGINAL ORIGINAL



25 OCT 2001

Susan Allen, MD, Director
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Evaluation III, (HFD-580)
Division of Reproductive and Urologic Drug
Products
Attn.: Document Control Room 14B-04
5600 Fishers Lane
Rockville, Maryland 20857-1706

NDA 21-180
Norelgestromin/Ethinyl Estradiol
Transdermal System

NDA 0212-0100-01

**Amendment to a Pending
Application:**
Response to Request for
Information



Dear Dr. Allen:

Reference is made to pending New Drug Application (NDA) 21-180, submitted on 20 December 2000, for a norelgestromin/ethinyl estradiol transdermal system. Reference is also made to Ms. Mercier's 09 August 2001 telephone call to request information and to a letter sent to FDA 09 October 2001 stating that we were working to obtain this information. The request for additional information was as follows:

- For study CONT-003, Subject No. 1181, the hospital discharge summary is requested.

Attached is a copy of the hospital discharge summary for this subject.

If you have any questions concerning this submission please call me at (908) 704-4812, call Valerie Donnelly at (908) 704-5891 or call our telephone line dedicated for FDA use at (908) 704-4600.

Sincerely,

Director
Regulatory Affairs

Desk copy to: Dr. Daniel Davis,
Medical Reviewer, DRUDP

SEARCHED	INDEXED
<input type="checkbox"/> LETTER	
CSO INITIALS	DATE



ORIGINAL



24 OCT 2001

PC

Dr. Susan Allen, MD, Director
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Evaluation III, (HFD-580)
Division of Reproductive and Urologic Drug
Product
Attn.: Document Control Room 14B-04
5600 Fishers Lane
Rockville, Maryland 20857-1706

NDA 21-180
ORTHO EVRA™
(norelgestromin/ethinyl estradiol
transdermal system) **NDA ORIGINATOR**

General Correspondence:
Response to FDA Request For
Information

Dear Dr. Allen:

Reference is made to pending New Drug Application (NDA) 21-180 for ORTHO EVRA™, a norelgestromin (NGMN) and ethinyl estradiol (EE) transdermal contraceptive system, submitted on 20 December 2000. Reference is also made to the email requests from FDA received on 17 October 2001 and 19 October 2001. At this time, we are providing the information requested. The FDA request appears below in bold face type and the RWJPRI response appears below it.

17 October 2001 CM&C Request:

The appearance specification of the drug product should include the following additional sentence to address the cold flow: "No change in surface area of the transdermal system should occur while removing the transdermal system from the pouch".

Response:

The Appearance specification will be changed to include the following sentence, "No change in surface area of the transdermal system should occur while removing the transdermal system from the pouch." This change will take effect upon approval and, as such, will apply to batches manufactured from that point forward. In the interim, we would like to request permission from the Agency to distribute, on approval, the batches that were manufactured with the old appearance specification.

REVIEWS COMPLETED
CSE ACTION:
<input type="checkbox"/> LETTER <input type="checkbox"/> N.A.I. <input type="checkbox"/> MEMO
2001 OCT 24

19 October 2001 FDA Question:

In a submission you mention a _____ a facility in regards to the bioequivalence _____ but this facility is not listed in the NDA _____
me know what the intentions are regarding this facility?

Study NRGEEP-PHI-016 is a bioequivalence study and was conducted to evaluate a potential alternate manufacturer, _____
for ORTHO-EVRA. As the conclusion of this study is non-equivalence between _____

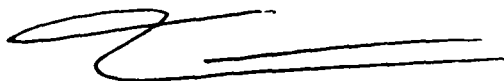
ORTHO-EVRA patch is not relevant to the current NDA submission. Additional bioequivalence studies with modified _____ process patch lots are being conducted under _____ subsequent to this NDA. Reports for these studies will be provided if necessary. _____ will not be used as an alternate manufacturer for this product unless bioequivalence is achieved and then, only after obtaining approval from the agency.

The pharmacokinetic data from the _____ patch portion of Study NRGEEP-PHI-016 is from the NDA clinical lot 01607 and is relevant to the current NDA. In addition, these data from the _____ clinical lot are included with pharmacokinetic data from other Phase 1 studies in a pooled database from which population pharmacokinetic analyses were conducted and included in the current NDA.

Should you have any questions and/or comments, please contact me at (908) 704-4812, contact Valerie Donnelly at (908) 704-5891 or call our telephone line dedicated for FDA use at (908) 704-4600.

Sincerely,

The R.W. Johnson Pharmaceutical Research Institute



Ramon Polo, PhD
Director
Regulatory Affairs



ORIGINAL



THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE

ROUTE 202, P.O. BOX 300, RARITAN, NEW JERSEY 08869-0602

Dr. Susan Allen, MD, Director
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Evaluation III, (HFD-580)
Division of Reproductive and Urologic Drug
Product
Attn.: Document Control Room 14B-04
5600 Fishers Lane
Rockville, Maryland 20857-1706

NDA 21-180 15 OCT 2001
ORTHO EVRA™
(norelgestromin/ethinyl estradiol
transdermal system)

ORIGINAL AMENDMENT

BC

General Correspondence:
Response to FDA Request for
CM&C Samples

Dear Dr. Allen:

Reference is made to pending New Drug Application (NDA) 21-180 submitted on 21 December 2000, for ORTHO EVRA™, a norelgestromin (NGMN) and ethinyl estradiol (EE) transdermal contraceptive system. At this time we wish to provide additional sample patches as per Dr. Amit Mitra's request to provide product that is either two years old or as close to the expiration date as possible.

Chemistry, Manufacturing and Controls Information:

Enclosed are 19 samples of the ORTHO EVRA™ transdermal contraceptive system. The patches are from lot number 00779 and the date of manufacture was 02 September 1999. This lot was made after the clinical trial lots and before the first PV lot, but underwent the same testing and QA scrutiny and batch record review as all of those lots. Please note that although these patches are not heat stamped with the trademark/dose, they do contain active ingredients and should be handled accordingly. For the purposes of this submission, the systems are sealed in a protective plastic bag.

Should you have any questions and/or comments, please contact me at (908) 704-4812, contact Valerie Donnelly at (908) 704-5891 or call our telephone line dedicated for FDA use at (908) 704-4600.

Sincerely,

Ramon Polo, PhD
Director
Regulatory Affairs

REVIEWS COMPLETED	
CSO ACTION:	
<input type="checkbox"/> LETTER	<input type="checkbox"/> MAIL <input type="checkbox"/> MEMO
CSO INITIALS	DATE

Desk Copy to: Dr. Amit Mitra, CM&C Reviewer HFD-580

N:\PDR\ALTR\101501 2 yr patch samples.doc\15 October 2001\JU



THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE

ROUTE 202, P.O. BOX 300, RARITAN, NEW JERSEY 08869-0602

12 OCT 2001

Dr. Susan Allen, MD, Director
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Evaluation III, (HFD-580)
Division of Reproductive and Urologic Drug
Product
Attn.: Document Control Room 14B-04
5600 Fishers Lane
Rockville, Maryland 20857-1706

NDA 21-180
ORTHO EVRA™
(norelgestromin/ethinyl estradiol
transdermal system)

General Correspondence:
Response to FDA Request For
CM&C Information

Dear Dr. Allen:

Reference is made to pending New Drug Application (NDA) 21-180 for ORTHO EVRA™, a norelgestromin (NGMN) and ethinyl estradiol (EE) transdermal contraceptive system, submitted on 20 December 2000. Reference is also made to the Discipline Review Letter received on 27 September 2001. At this time we wish to provide the following responses. The FDA question appears below in bold face type and the RWJPRI response follows.

Drug Substance (norelgestromin)

1. **Please submit the information on the type of bag used during stability studies of norelgestromin.**

a. _____

b. _____

2. **Based on the ICH recommendations, the acceptance criteria for total impurities in the drug substance, norelgestromin should be tightened to _____ unless justified.**

Based on data from batches of norelgestromin manufactured in the years 1999 to 2001, we accept the limit for total impurities in norelgestromin to "Not More _____ the supplier of this drug substance, will supply material that meets this specification.

A copy of the revised norelgestromin drug substance specification will be sent to the Agency as soon as it is available.

3. _____ is deficient. A deficiency letter was sent to the DMF holder.

We are aware that a deficiency letter was sent to the DMF holder, however we believe the DMF number is actually _____ as noted in the Discipline Review Letter.

Drug Substance (ethinyl estradiol)

1. **The acceptance criteria for total impurity for ethinyl estradiol related substances should be tightened to _____ based on the analysis of the data provided, unless justified.**

The impurities and degradation products in drug substance batches of ethinyl estradiol (EE) are controlled by two chromatographic purity tests, _____

_____ Our acceptance criteria for _____ test are in conformance with that monograph. b6
b7c

Regarding the test _____): we agree to tighten the total impurities specification from "Not More _____ to "Not More _____. The justification for this level includes data that were included in the NDA but also additional data from a second supplier that are not included in this submission. The data were included in NDA 21-241 for ORTHO TRI-CYCLEN LO, Item 4A / Volume 1 / page 49. The second supplier is used for other Ortho-McNeil marketed products. Additional data from the second supplier are supplied in Attachment 1. This limit is consistent with the _____

A copy of the revised drug substance specification will be submitted to the Agency as soon as it is available.

This information from _____ is presented in Attachment 2. Please note that information about molecular weight and % solids is not supplied to _____ by the vendor.

2. **Submit a certificate of analysis with coating weight and subsequent adhesion values, since those are parts of the specification.**

A Certificate of Analysis from _____ showing the coating weight and subsequent adhesion values is included in Attachment 3.

3. **Provide labeling information of the jumbos and slit roll prior to shipping, and the storage conditions for the finished product.**

Each liner roll is double-bagged and placed on pallets per the customer specification. The pallets are shrink wrapped. The packaged rolls are labeled with the product identity, lot number, quantity, manufacturer's name, and customer purchase order and part number. The rolls are stored in an air conditioned area until shipment.

The liner rolls should be stored indoors, preferably in an air conditioned warehouse area at temperatures not exceeding 90 °F and relative humidity in the 20 - 70% range.

Information on the packaging, labeling and storage is included at the end of the information provided in Attachment 2. A copy of a sample label roll and a sample packing slip for one pallet are provided in Attachment 4.

Non woven backing film

1. **Provide test methods and acceptance criteria of polyethylene terephthalate and _____**

_____ purchases the polyethylene terephthalate and _____ which is located _____ to the _____ facility in _____. The polymer chip is transferred through pipelines, or sent via railcar from the _____ facility to the _____ facility. _____ receives this material based on Certificates of Analysis for each polymer

**Number of Pages
Redacted** 5



Confidential,
Commercial Information

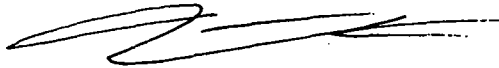
3. Provide a disposal procedure for the transdermal patch in the "How Supplied" section, since the drug product, when disposed, would contain a large quantity of the residual drugs and it may pose hazard by accidental use.

RWJPRI proposes to copy the disposal procedure text that currently appears in the patient labeling of the NDA into the How Supplied section of the physician labeling. The text is as follows and may be found in the original NDA, Item 2/Item Volume1/Page47: *"The used patch still contains some active hormones-throw it away by carefully folding it in half so that it sticks to itself."*

Should you have any questions and/or comments, please contact me at (908) 704-4812, contact Valerie Donnelly at (908) 704-5891 or call our telephone line dedicated for FDA use at (908) 704-4600.

Sincerely,

The R.W. Johnson Pharmaceutical Research Institute



Ramon Polo, PhD
Director
Regulatory Affairs

Send 1 desk copy to: Dr. Amit Mitra, FDA/DRUDP/HFD-580, Reviewing Chemist

**APPEARS THIS WAY
ON ORIGINAL**



11 OCT 2001

ORIG AMENDMENT

Dr. Susan Allen, MD, Director
Food and Drug Administration
Center for Drug Evaluation and Research
Office of Drug Evaluation III, (HFD-580)
Division of Reproductive and Urologic Drug
Product
Attn.: Document Control Room 14B-04
5600 Fishers Lane
Rockville, Maryland 20857-1706

NDA 21-180
ORTHO EVRA™
(norelgestromin/ethinyl estradiol
transdermal system)

General Correspondence:
Response to FDA Request For
Information

Dear Dr. Allen:

Reference is made to pending New Drug Application (NDA) 21-180 for ORTHO EVRA™, a norelgestromin (NGMN) and ethinyl estradiol (EE) transdermal contraceptive system, submitted on 20 December 2000. We are providing information at this time as per Dr. Chatterjee's 05 October 2001 email request. The FDA question appears below in bold face type and the RW... case appears below it.

Question:

I am reviewing the dissolution information provided my section (6) of the NDA. The lot/batch #s used for these pieces of information are 01107 / ——— ; 01517 ——— and 01607 ———. Was wondering whether the sponsor could confirm that these lots were identical to the phase 3 and the to-be-marketed lots.

Response:

Lots 01107, 01517 and 01607, were indeed the Phase 3 lots. The to-be-marketed lots meet NDA specifications that were developed by a procedure that included these three Phase 3 lots as well as other lots (for details, please see Section 3.6.3 of the NDA [Item 4/Item Volume 4/Page 24]). We believe this meets the reviewer's

Should you have any questions and/or comments, please contact me at (908) 704-4812, contact Valerie Donnelly at (908) 704-5891 or call our telephone line dedicated for FDA use at (908) 704-4600.

REVIEWS COMPLETED
CSO ACTION:
<input type="checkbox"/> LETTER <input type="checkbox"/> N.A.I. <input type="checkbox"/> MEMO
CSO INITIALS _____ DATE _____