

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER:
21-212

MICROBIOLOGY REVIEW

Pharmacia & Upjohn, NDA 21-212, Caverject® DC, Microbiologist's Review #3

D. CONCLUSIONS: The non-sterile nature of the alcohol wipes have no impact on the sterility of the drug product. These wipes will not have any effect on the safe use of the product.

Paul Stinavage, Ph.D.

cc: Original NDA 21-212
HFD-580/K. Colangelo/J. Salemme/Div. Files
HFD-805/Consult File/Stinavage

Drafted by: P. Stinavage, 17 November 2000
R/D initialed by P. Cooney

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commercial

information

/s/

Paul Stinavage

11/17/00 10:02:23 AM

MICROBIOLOGIST

Use of non-sterile alcohol pads included in product kit.

Peter Cooney

11/17/00 10:20:55 AM

MICROBIOLOGIST

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REVIEW FOR HFD-580
OFFICE OF NEW DRUG CHEMISTRY
MICROBIOLOGY STAFF
MICROBIOLOGISTS REVIEW #2 OF NDA 21-212
24 October 2000

A. 1. NDA 21-212 BI

APPLICANT: Pharmacia & Upjohn
7000 Portage Road
Kalamazoo, MI 49001-0199

2. PRODUCT NAME: Caverject® DC (alprostadil for injection)

3. DOSAGE FORM AND ROUTE OF ADMINISTRATION:
The product is a lyophilized preparation for reconstitution and
parenteral use.

4. METHODS OF STERILIZATION:

5. PHARMACOLOGICAL CATEGORY and/or PRINCIPLE
INDICATION:

The product is indicated for the treatment and diagnosis of erectile
dysfunction (ED) via intracavernosal injection.

B. 1. DATE OF INITIAL SUBMISSION: 20 January 2000

2. DATE OF AMENDMENT: 21 September 2000 (Subject of this
Review)

3. RELATED DOCUMENTS: _____ ; NDA 20-379;
NDA 20-755; DMF's _____

4. ASSIGNED FOR REVIEW: 20 October 2000

C. REMARKS: The application provides for the manufacture of a dual
chambered cartridge presentation of the product at the
Lindshagensgatan plant at Stockholm, Sweden.

The product will be manufactured at:

Pharmacia & Upjohn, NDA 21-212, Caverject® DC, Microbiologist's Review #2

Building 49, Floor 3
Pharmacia AB
Lindhagensgatan 133
Stockholm, Sweden

Two strengths of the drug product will be manufactured.
They are 10 and 20 µg strengths.

D. CONCLUSIONS: The application is recommended for approval on the basis of sterility assurance.

Paul Stinavage, Ph.D.

cc: Original NDA 21-212
HFD-580/K. Colangelo/J. Salemme/Div. Files
HFD-805/Consult File/Stinavage

Drafted by: P. Stinavage, 24 October 2000
R/D initialed by P. Cooney

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Pharmacia AB
Lindhagensgatan 133
Stockholm, Sweden

Two strengths of the drug product will be manufactured.
They are 10 and 20 µg strengths.

D. CONCLUSIONS: The application is approvable upon resolution of microbiology concerns. Specific comments are provided in "E. Review Notes" and "List of Microbiology Deficiencies". A satisfactory inspection status should be obtained prior to approval of the application.

Stinavage

Paul Stinavage, Ph.D.

Stinavage

cc: Original NDA 21-212
HFD-580/K. Colangelo/Div. Files
HFD-805/Consult File/Stinavage

Drafted by: P. Stinavage, 27 July 2000
R/D initialed by P. Cooney

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REQUEST FOR CONSULTATION

TO (Division/Office): HFD-805 Dr. Peter Gooney

FROM: HFD-580 (Division of Reproductive and Urologic Drug Products) Kim Colangelo

DATE: February 1, 2000	IND NO.:	NDA NO.: 21-212	TYPE OF DOCUMENT : original	DATE OF DOCUMENT: January 20, 2000
NAME OF DRUG: Caverject DC	PRIORITY CONSIDERATION: standard	CLASSIFICATION OF DRUG: 3/S	DESIRED COMPLETION DATE August 20, 2000	

NAME OF FIRM: Pharmacia & Upjohn

REASON FOR REQUEST

I. GENERAL

- | | | |
|--|--|---|
| <input type="checkbox"/> NEW PROTOCOL | <input type="checkbox"/> PRE-NDA MEETING | <input type="checkbox"/> RESPONSE TO DEFICIENCY LETTER |
| <input type="checkbox"/> PROGRESS REPORT | <input type="checkbox"/> END OF PHASE II MEETING | <input type="checkbox"/> FINAL PRINTED LABELING |
| <input type="checkbox"/> NEW CORRESPONDENCE | <input type="checkbox"/> RESUBMISSION | <input type="checkbox"/> LABELING REVISION |
| <input type="checkbox"/> DRUG ADVERTISING | <input type="checkbox"/> SAFETY/EFFICACY | <input type="checkbox"/> ORIGINAL NEW CORRESPONDENCE |
| <input type="checkbox"/> ADVERSE REACTION REPORT | <input type="checkbox"/> PAPER NDA | <input type="checkbox"/> FORMULATIVE REVIEW |
| <input type="checkbox"/> MANUFACTURING CHANGE/ADDITION | <input type="checkbox"/> CONTROL SUPPLEMENT | <input checked="" type="checkbox"/> OTHER (SPECIFY BELOW):
New NDA |
| <input type="checkbox"/> MEETING PLANNED BY | | |

II. BIOMETRICS

STATISTICAL EVALUATION BRANCH	STATISTICAL APPLICATION BRANCH
<input type="checkbox"/> TYPE A OR B NDA REVIEW <input type="checkbox"/> END OF PHASE II MEETING <input type="checkbox"/> CONTROLLED STUDIES <input type="checkbox"/> PROTOCOL REVIEW OTHER:	<input type="checkbox"/> CHEMISTRY REVIEW <input type="checkbox"/> PHARMACOLOGY <input type="checkbox"/> BIOPHARMACEUTICS <input type="checkbox"/> OTHER: <i>To: Dr. Stinauase PAC 2/19/00</i>

III. BIOPHARMACEUTICS

- | | |
|--|---|
| <input type="checkbox"/> DISSOLUTION | <input type="checkbox"/> DEFICIENCY LETTER RESPONSE |
| <input type="checkbox"/> BIOAVAILABILITY STUDIES | <input type="checkbox"/> PROTOCOL-BIOPHARMACEUTICS |
| <input type="checkbox"/> PHASE IV STUDIES | <input type="checkbox"/> IN-VIVO WAIVER REQUEST |

IV. DRUG EXPERIENCE

- | | |
|--|--|
| <input type="checkbox"/> PHASE IV SURVEILLANCE/EPIDEMIOLOGY PROTOCOL | <input type="checkbox"/> REVIEW OF MARKETING EXPERIENCE, DRUG USE AND SAFETY |
| <input type="checkbox"/> DRUG USE e.g. POPULATION EXPOSURE, ASSOCIATED DIAGNOSES | <input type="checkbox"/> SUMMARY OF ADVERSE EXPERIENCE |
| <input type="checkbox"/> CASE REPORTS OF SPECIFIC REACTIONS (List below) | <input type="checkbox"/> POISON RISK ANALYSIS |
| <input type="checkbox"/> COMPARATIVE RISK ASSESSMENT ON GENERIC DRUG GROUP | |

V. SCIENTIFIC INVESTIGATIONS

<input type="checkbox"/> CLINICAL	<input type="checkbox"/> PRECLINICAL
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COMMENTS/SPECIAL INSTRUCTIONS: Please inform me of reviewer assignment. Filing meeting pending.

cc: Original NDA 21212
HFD-580/Div. Files
HFD-580/Colangelo

SIGNATURE OF REQUESTER: <i>[Signature]</i>	METHOD OF DELIVERY (Check one): <input checked="" type="checkbox"/> MAIL <input type="checkbox"/> HAND
SIGNATURE OF RECEIVER: <i>[Signature]</i>	SIGNATURE OF DELIVERER: <i>[Signature]</i>