

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

21-175

ADMINISTRATIVE DOCUMENTS

C. Patent Certification

In the opinion and to the best knowledge of the Office of the Surgeon General, United States Army, there are no patents that claim the drug or drugs on which investigations that are relied upon in this application were conducted or that claim a use of such drug or drugs.

EXCLUSIVITY SUMMARY for NDA # 21-175 SUPPL #

Trade Name ATNAA Generic Name Atropine/Pralidoxime Multichambered Injection

Applicant Name U.S. Army

HFD- 120

Approval Date, if known January 17, 2002

PART I IS AN EXCLUSIVITY DETERMINATION NEEDED?

1. An exclusivity determination will be made for all original applications, but only for certain supplements. Complete PARTS II and III of this Exclusivity Summary only if you answer "yes" to one or more of the following question about the submission.

a) Is it an original NDA? YES / / NO / /

b) Is it an effectiveness supplement? YES / / NO / /

If yes, what type? (SE1, SE2, etc.) _____

c) Did it require the review of clinical data other than to support a safety claim or change in labeling related to safety? (If it required review only of bioavailability or bioequivalence data, answer "no.") YES / / NO / /

If your answer is "no" because you believe the study is a bioavailability study and, therefore, not eligible for exclusivity, EXPLAIN why it is a bioavailability study, including your reasons for disagreeing with any arguments made by the applicant that the study was not simply a bioavailability study.

The study submitted is a "comparative bioavailability" study comparing the performance of individual atropine & pralidoxime autoinjectors to the multichambered auto-injector combination product.

If it is a supplement requiring the review of clinical data but it is not an effectiveness supplement, describe the change or claim that is supported by the clinical data:

d) Did the applicant request exclusivity?

YES / / NO / /

If the answer to (d) is "yes," how many years of exclusivity did the applicant request?

IF YOU HAVE ANSWERED "NO" TO ALL OF THE ABOVE QUESTIONS, GO DIRECTLY TO THE SIGNATURE BLOCKS ON PAGE 8.

2. Has a product with the same active ingredient(s), dosage form, strength, route of administration, and dosing schedule, previously been approved by FDA for the same use? (Rx-to-OTC switches should be answered NO-please indicate as such.)

YES / / NO / / OTC Switch / /

If yes, **NDA# 17-106 Atropen® Atropine Autoinjector**

NDA# 18-799 Pralidoxime Cl Autoinjector

IF THE ANSWER TO QUESTION 2 IS "YES," GO DIRECTLY TO THE SIGNATURE BLOCKS ON PAGE 8.

3. Is this drug product or indication a DESI upgrade?

YES / / NO / /

IF THE ANSWER TO QUESTION 3 IS "YES," GO DIRECTLY TO THE SIGNATURE BLOCKS ON PAGE 8 (even if a study was required for the upgrade):

PART II FIVE-YEAR EXCLUSIVITY FOR NEW CHEMICAL ENTITIES
(Answer either #1 or #2 as appropriate)

1. Single active ingredient product.

Has FDA previously approved under section 505 of the Act any drug product containing the same active moiety as the drug under consideration? Answer "yes" if the active moiety (including other esterified forms, salts, complexes, chelates or clathrates) has been previously approved, but this particular form of the active moiety, e.g., this particular ester or salt (including salts with hydrogen or coordination bonding) or other non-covalent derivative (such as a complex, chelate, or clathrate) has not been approved. Answer "no" if the compound requires metabolic conversion (other than deesterification of an esterified form of the drug) to produce an already approved active moiety.

YES /___/ NO /___/

If "yes," identify the approved drug product(s) containing the active moiety, and, if known, the NDA #(s).

NDA# _____

NDA# _____

NDA# _____

2. Combination product.

If the product contains more than one active moiety(as defined in Part II, #1), has FDA previously approved an application under section 505 containing any one of the active moieties in the drug product? If, for example, the combination contains one never-before-approved active moiety and one previously approved active moiety, answer "yes." (An active moiety that is marketed under an OTC monograph, but that was never approved under an NDA, is considered not previously approved.)

YES /___/ NO /___/

If "yes," identify the approved drug product(s) containing the active moiety, and, if known, the NDA #(s).

NDA# _____

NDA# _____

NDA# _____

IF THE ANSWER TO QUESTION 1 OR 2 UNDER PART II IS "NO," GO DIRECTLY TO THE SIGNATURE BLOCKS ON PAGE 8. IF "YES" GO TO PART III.

PART III THREE-YEAR EXCLUSIVITY FOR NDA'S AND SUPPLEMENTS

To qualify for three years of exclusivity, an application or supplement must contain "reports of new clinical investigations (other than bioavailability studies) essential to the approval of the application and conducted or sponsored by the applicant." This section should be completed only if the answer to PART II, Question 1 or 2 was "yes."

1. Does the application contain reports of clinical investigations? (The Agency interprets "clinical investigations" to mean investigations conducted on humans other than bioavailability studies.) If the application contains clinical investigations only by virtue of a right of reference to clinical investigations in another application, answer "yes," then skip to question 3(a). If the answer to 3(a) is "yes" for any investigation referred to in another application, do not complete remainder of summary for that investigation.

YES /___/ NO /___/

IF "NO," GO DIRECTLY TO THE SIGNATURE BLOCKS ON PAGE 8.

2. A clinical investigation is "essential to the approval" if the Agency could not have approved the application or supplement without relying on that investigation. Thus, the investigation is not essential to the approval if 1) no clinical investigation is necessary to support the supplement or application in light of previously approved applications (i.e., information other than clinical trials, such as bioavailability data, would be sufficient to provide a basis for approval as an ANDA or 505(b)(2) application because of what is already known about a previously approved product), or 2) there are published reports of studies (other than those conducted or sponsored by the applicant) or other publicly available data that independently would have been sufficient to support approval of the application, without reference to the clinical investigation submitted in the application.

- (a) In light of previously approved applications, is a clinical investigation (either conducted by the applicant or available from some other source, including the published literature) necessary to support approval of the application or supplement?

YES /___/ NO /___/

If "no," state the basis for your conclusion that a clinical trial is not necessary for approval AND GO DIRECTLY TO SIGNATURE BLOCK ON PAGE 8:

YES /___/ NO /___/

- (b) Did the applicant submit a list of published studies relevant to the safety and effectiveness of this drug product and a statement that the publicly available data would not independently support approval of the application?

YES /___/ NO /___/

- (1) If the answer to 2(b) is "yes," do you personally know of any reason to disagree with the applicant's conclusion? If not applicable, answer NO.

YES / ___ / Explain _____

Investigation #2

YES / ___ / Explain _____

! NO / ___ / Explain _____

! NO / ___ / Explain _____

- c) Notwithstanding an answer of "yes" to (a) or (b), are there other reasons to believe that the applicant should not be credited with having "conducted or sponsored" the study? (Purchased studies may not be used as the basis for exclusivity. However, if all rights to the drug are purchased (not just studies on the drug), the applicant may be considered to have sponsored or conducted the studies sponsored or conducted by its predecessor in interest.)

YES / / NO / /

If yes, explain: _____

Signature Date
Robbin Nighswander
Name (type or print)
Supervisory Regulatory Health Project Manager
Title

Signature of Division Director Date
Russell Katz, M.D.
Name (type or print)

cc: Original NDA
Division File
HFD-93 Mary Ann Holovac

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

/s/

Robbin Nighswander
1/18/02 09:07:00 AM

Russell Katz
1/18/02 09:57:47 AM

PEDIATRIC PAGE

(Complete for all APPROVED original applications and efficacy supplements)

A/BLA #: 21-175 Supplement Type (e.g. SE5): _____ Supplement Number: _____

Stamp Date: Original Date = 12/6/99 Action Date: January 17, 2002

HFD -120 Trade and generic names/dosage form: ATNAA (atropine/pralidoxime) injection in an autoinjector

Applicant: U.S. Army Therapeutic Class: 3P

Indication(s) previously approved: _____

Each approved indication must have pediatric studies: Completed, Deferred, and/or Waived.

Number of indications for this application(s): 1

Indication #1: "The ATNAA is indicated for the treatment of poisoning by susceptible organophosphorous nerve agents having anticholinesterase activity."

Is there a full waiver for this indication (check one)?

- Yes: Please proceed to Section A. **YES. Full Waiver was granted.**
- No: Please check all that apply: Partial Waiver Deferred Completed
NOTE: More than one may apply
Please proceed to Section B, Section C, and/or Section D and complete as necessary.

Section A: Fully Waived Studies

Reason(s) for full waiver:

- Products in this class for this indication have been studied/labeled for pediatric population
- Disease/condition does not exist in children
- Too few children with disease to study
- There are safety concerns
- Other: This product is intended for use by soldiers under battlefield conditions.

If studies are fully waived, then pediatric information is complete for this indication. If there is another indication, please see Attachment A. Otherwise, this Pediatric Page is complete and should be entered into DFS.

Section B: Partially Waived Studies

Age/weight range being partially waived:

Min _____ kg _____ mo. _____ yr. _____ Tanner Stage _____
Max _____ kg _____ mo. _____ yr. _____ Tanner Stage _____

Reason(s) for partial waiver:

- Products in this class for this indication have been studied/labeled for pediatric population
- Disease/condition does not exist in children
- Too few children with disease to study
- There are safety concerns
- Adult studies ready for approval
- Formulation needed
- Other: _____

If studies are deferred, proceed to Section C. If studies are completed, proceed to Section D. Otherwise, this Pediatric Page is complete and should be entered into DFS.

Section C: Deferred Studies

Age/weight range being deferred:

Min _____ kg _____ mo. _____ yr. _____ Tanner Stage _____
Max _____ kg _____ mo. _____ yr. _____ Tanner Stage _____

Reason(s) for deferral:

- Products in this class for this indication have been studied/labeled for pediatric population
- Disease/condition does not exist in children
- Too few children with disease to study
- There are safety concerns
- Adult studies ready for approval
- Formulation needed

Other: _____

Date studies are due (mm/dd/yy): _____

If studies are completed, proceed to Section D. Otherwise, this Pediatric Page is complete and should be entered into DFS.

Section D: Completed Studies

Age/weight range of completed studies:

Min _____ kg _____ mo. _____ yr. _____ Tanner Stage _____
Max _____ kg _____ mo. _____ yr. _____ Tanner Stage _____

Comments:

If there are additional indications, please proceed to Attachment A. Otherwise, this Pediatric Page is complete and should be entered into DFS.

This page was completed by:

{See appended electronic signature page}

Robbin M. Nighswander, RPh., M.S.
Supervisory Regulatory Health Project Manager

cc: NDA
HFD-960/ Terrie Crescenzi
(revised 1-18-02)

FOR QUESTIONS ON COMPLETING THIS FORM CONTACT, PEDIATRIC TEAM, HFD-960
301-594-7337

CERTIFICATION

**RE: A COMPARATIVE BIOAVAILABILITY STUDY OF ATROPINE AND
PRALIDOXIME CHLORIDE ADMINISTERED BY TWO DIFFERENT
AUTO-INJECTOR DELIVERY SYSTEMS IN HEALTHY VOLUNTEERS
PROTOCOL: #11280
SPONSOR: MERIDIAN MEDICAL TECHNOLOGIES**

_____ hereby certifies that it has not and does not use in any capacity the services of any person debarred under section 306 of the Federal Food, Drug, and Cosmetic Act in connection with any of the services performed by _____ for the conduct of the above-referenced study.

_____ further represents that neither it nor, any of its employees, agents or contractor, has engaged in any activity which could lead to it becoming debarred under the Act.



James K. Leslie
President and Chief Executive Officer

01/10/00



CERTIFICATION: FINANCIAL INTERESTS AND ARRANGEMENTS OF CLINICAL INVESTIGATORS

TO BE COMPLETED BY APPLICANT

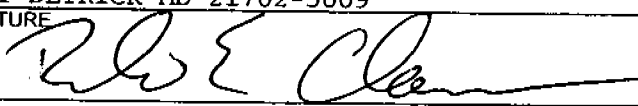
With respect to all covered clinical studies (or specific clinical studies listed below (if appropriate)) submitted in support of this application, I certify to one of the statements below as appropriate. I understand that this certification is made in compliance with 21 CFR part 54 and that for the purposes of this statement, a clinical investigator includes the spouse and each dependent child of the investigator as defined in 21 CFR 54.2(d).

Please mark the applicable checkbox.

- (1) As the sponsor of the submitted studies, I certify that I have not entered into any financial arrangement with the listed clinical investigators (enter names of clinical investigators below or attach list of names to this form) whereby the value of compensation to the investigator could be affected by the outcome of the study as defined in 21 CFR 54.2(a). I also certify that each listed clinical investigator required to disclose to the sponsor whether the investigator had a proprietary interest in this product or a significant equity in the sponsor as defined in 21 CFR 54.2(b) did not disclose any such interests. I further certify that no listed investigator was the recipient of significant payments of other sorts as defined in 21 CFR 54.2(f).

Clinical Investigators		

- (2) As the applicant who is submitting a study or studies sponsored by a firm or party other than the applicant, I certify that based on information obtained from the sponsor or from participating clinical investigators, the listed clinical investigators (attach list of names to this form) did not participate in any financial arrangement with the sponsor of a covered study whereby the value of compensation to the investigator for conducting the study could be affected by the outcome of the study (as defined in 21 CFR 54.2(a)); had no proprietary interest in this product or significant equity interest in the sponsor of the covered study (as defined in 21 CFR 54.2(b)); and was not the recipient of significant payments of other sorts (as defined in 21 CFR 54.2(f)).
- (3) As the applicant who is submitting a study or studies sponsored by a firm or party other than the applicant, I certify that I have acted with due diligence to obtain from the listed clinical investigators (attach list of names) or from the sponsor the information required under 54.4 and it was not possible to do so. The reason why this information could not be obtained is attached.

NAME	TITLE
RONALD E. CLAWSON, Ph.D.	Project Manager
FIRM/ORGANIZATION	
U.S. ARMY MEDICAL MATERIEL DEVELOPMENT ACTIVITY FORT DETRICK MD 21702-5009	
SIGNATURE	DATE
	Oct 18, 1999

Paperwork Reduction Act Statement

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. Public reporting burden for this collection of information is estimated to average 1 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the necessary data, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information to the address to the right:

Department of Health and Human Services
Food and Drug Administration
5600 Fishers Lane, Room 14C-03
Rockville, MD 20857

PROJECT MANAGER LABELING REVIEW

NDA #: 21-175

Dates of Submissions: December 6, 1999
Date Review Completed: May 18, 2000

Applicant Name and Address: Department of the Army
Office of the Surgeon General
504 Scott Street
Fort Detrick, Frederick, MD 21702-5012

Trade Name: "ATNAA"
(Antidote Treatment - Nerve Agent, Auto-Injector)

Generic Name: atropine/pralidoxime chloride auto-injector

Dosage Form and Strengths: atropine 2.1 mg/0.7 mL
pralidoxime chloride 600 mg/2 mL

Pharmacological Category and/or Principal Indication:
Antidote for nerve agent exposure

Material Reviewed:

- NDA 21-275 ATNAA proposed package insert
- NDA 18-986 Pralidoxime chloride auto-injector approved package insert
- NDA 17-106 AtroPen Auto-injector approved package insert
- NDA 20-056 Atropine Mdi Inhaler approved package insert
- Atropine Sulfate Injection Monograph
from: 1996 Physicians GenRx® "The Complete Drug Reference"

Evaluation:

This product consists of a dual-chambered auto-injector intended for intramuscular administration of both pralidoxime chloride and atropine. Both pralidoxime chloride and atropine are currently approved drugs for IM administration via single-chamber auto-injectors, however, this is the first NDA for a multi-chambered autoinjector.

The application contains an annotated "draft" package insert (PI) based on information from multiple sources including data from the comparative bioavailability study and other information (i.e., CMC, etc.) submitted in the application. However, the majority of the text in the package insert is derived from currently marketed pralidoxime and atropine products.

Atropine: NOTE: The only **approved** atropine injectable product is the AtroPen® Auto-injector. Although multiple atropine and atropine sulfate injectable products are commercially available for both IM and IV administration, they are NOT subject to approved NDAs or ANDAs and are presumed to be marketed under the "pre-1938"

provisions of the Act. Furthermore, the package insert for the AtroPen® Auto-injector is very old and does not conform to current Content & Format requirements.

The annotated "draft" PI submitted by the sponsor cites "PDR Generics 1998, p. 267" as a source for much of the atropine labeling text. I was unable to locate this reference in the FDA library; however, I did locate an atropine injection monograph in a book entitled "1996 Physicians GenRx® The Complete Drug Reference". The monograph text from this source is identical in many respects to text in the sponsor's draft PI.

Pralidoxime: Information in the ATNAA "draft" package insert is primarily derived from the approved pralidoxime auto-injector product labeling.

The proposed ATNAA package insert was compared to the noted reference materials and differences are noted in the attached side by side comparison of labeling. Several deletions from the approved pralidoxime PI and the "several" atropine PIs & monograph are noted.

Recommendation:

The Review Team should consider the attached labeling comparison as a source of information in developing a Package Insert for the ATNAA. Particular attention should be given to labeling text included in the marketed forms for pralidoxime and atropine which differ in content or has not been included in the proposed PI for the ATNAA.

/S/

Robbin Nighswander, M.S.

attachments:

1. Labeling Comparison
2. Atropine Injection Monograph from "1996 Physicians GenRx® The Complete Drug Reference"
3. NDA 18-986 Pralidoxime chloride auto-injector approved package insert
4. NDA 17-106 AtroPen Auto-injector approved package insert
5. NDA 20-056 Atropine Mdi Inhaler approved package insert

cc: Orig NDA
HFD-120
HFD-120/Katz/Freiman/Rosloff