

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER: 20-441/S002

ADMINISTRATIVE DOCUMENTS

EXCLUSIVITY SUMMARY for NDA # 20441/S-002

Trade Name: Pulmicort Turbuhaler
Generic Name: budesonide powder for oral inhalation
Applicant Name: Astra Pharmaceuticals, L.P. **HFD-570**

Approval Date: October 8, 1998

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 questions about the submission.

a) Is it an original NDA?

YES /___/ NO /_X_/

b) Is it an effectiveness supplement?

YES /_X_/ NO /___/

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

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 /_X_/ 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.

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:

- (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 / / NO / /

If yes, explain: _____

- (2) If the answer to 2(b) is "no," are you aware of published studies not conducted or sponsored by the applicant or other publicly available data that could independently demonstrate the safety and effectiveness of this drug product?

YES / / NO / /

If yes, explain: _____

- (c) If the answers to (b)(1) and (b)(2) were both "no," identify the clinical investigations submitted in the application that are essential to the approval:

Investigation #1, Study # DS-004-0009

Investigation #2, Study #

Investigation #3, Study #

3. In addition to being essential, investigations must be "new" to support exclusivity. The agency interprets "new clinical investigation" to mean an investigation that 1) has not been relied on by the agency to demonstrate the effectiveness of a previously approved drug for any indication and 2) does not duplicate the results of another investigation that was relied on by the agency to demonstrate the effectiveness of a previously approved drug product, i.e., does not redemonstrate something the agency considers to have been demonstrated in an already approved application.

c) If the answers to 3(a) and 3(b) are no, identify each "new" investigation in the application or supplement that is essential to the approval (i.e., the investigations listed in #2(c), less any that are not "new"):

Investigation #1, Study # DS-004-0009

Investigation #2, Study #

Investigation #3, Study #

4. To be eligible for exclusivity, a new investigation that is essential to approval must also have been conducted or sponsored by the applicant. An investigation was "conducted or sponsored by" the applicant if, before or during the conduct of the investigation, 1) the applicant was the sponsor of the IND named in the form FDA 1571 filed with the Agency, or 2) the applicant (or its predecessor in interest) provided substantial support for the study. Ordinarily, substantial support will mean providing 50 percent or more of the cost of the study.

a) For each investigation identified in response to question 3(c): if the investigation was carried out under an IND, was the applicant identified on the FDA 1571 as the sponsor?

Investigation #1

IND # YES / X / ! NO / / Explain:
!

Investigation #2

IND # YES / / ! NO / / Explain:

Investigation #3

IND # YES / / ! NO / / Explain:

(b) For each investigation not carried out under an IND or for which the applicant was not identified as the sponsor, did the applicant certify that it or the applicant's predecessor in interest provided substantial support for the study?

Investigation #1

YES / <u> </u> / Explain <u> </u>	!	NO / <u> </u> / Explain <u> </u>
<u> </u>	!	<u> </u>
<u> </u>	!	<u> </u>

PEDIATRIC PAGE

(Complete for all original application and all efficacy supplements)

NDA/BLA Number: 20441 Trade Name: PULMICORT/TURBUHALER (BUDESONIDE)
 Supplement Number: 2 Generic Name: BUDESONIDE
 Supplement Type: SE2 Dosage Form: Aerosol, Metered; Inhalation
 Regulatory Action: AP Proposed Indication: Once daily dosing

IS THERE PEDIATRIC CONTENT IN THIS SUBMISSION? YES

What are the INTENDED Pediatric Age Groups for this submission?

Neonates (0-30 Days) Children (25 Months-12 years)
 Infants (1-24 Months) Adolescents (13-18 Years)
 Other Age Groups (listed): 6-12 years of age

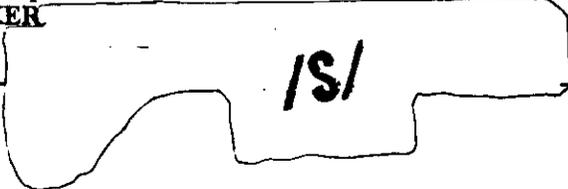
Label Status ADEQUATE Labeling for ALL PEDIATRIC ages
 Formulation Status NO NEW FORMULATION is needed
 Studies Needed STUDIES needed. Applicant in NEGOTIATIONS with FDA
 Study Status Protocols are under discussion. Comment attached

Are there any Pediatric Phase 4 Commitments in the Action Letter for the Original Submission? YES

COMMENTS:

This supplement was approved for maintenance but NOT for initiation of therapy. Only children 6 years and above with mild to moderate asthma who are well controlled on inhaled corticosteroids are approved for once daily dosing. FDA has strongly recommended that the applicant study the systemic effects of once daily administration in the morning versus the evening in pediatric patients, but this is NOT a Phase 4 commitment. D. Hilfiker, 10-08-98

This Page was completed based on information from a PROJECT MANAGER/CONSUMER SAFETY OFFICER, DAVID HILFIKER

Signature 

Date 10-8-98

cc: Original NDA 20-441/s-002
 HFD-570/ Division File
 HFD-570/ Hilfiker
 HFD-570/ Schumaker

APPEARS THIS WAY ON ORIGINAL

Debarment Certification

This certifies that Astra USA, Inc. has not used in any capacity any person identified by the United States Food and Drug Administration on the recent Debarment List.

Further, we certify that Astra USA, Inc. will not use the services in any capacity of anyone debarred by the United States Food and Drug Administration.

The following is a list of all relevant convictions (for which a person can be debarred) as described in section 306 (a) and (b). The list covers the past five (5) years for persons employed and/or affiliated with Astra USA, Inc. (including contractors) and responsible for the development of data and information to support approval of NDA 20-441 for Pulmicort Turbuhaler® (budesonide inhalation powder).

<u>Person</u>	<u>Date of Conviction</u>	<u>Charge</u>
None	None	None



Dennis J. Buggeri
Vice President
Regulatory Affairs

10/6/97
Date

APPEARS THIS WAY
ON ORIGINAL