

Summary Basis for Regulatory Action

Date: July 19, 2012

From: Holly Wieland, RN, MPH
Chair of the Review Committee

Through: Paul Richman, PhD
Branch Chief, CMC Branch 1

BLA/STN#: 103666/5277

Applicant Name: Sanofi Pasteur Limited

Date of Submission: September 30, 2011

PDUFA Goal Date: July 30, 2012

Proprietary Name: DAPTACEL

Established Name: Diphtheria and Tetanus Toxoids
and Acellular Pertussis Vaccine Adsorbed

Application Type: Efficacy Supplement

Reason for Submission: To revise the label to add a warning on apnea in very premature infants in Section 5 Warnings and Precautions, and to add the adverse event of lymphadenopathy in Section 6.2 Data from Post-Marketing Experience.

Recommended Action: Approval

Signatory Authorities Action:

Offices Signatory Authority: Wellington Sun, MD
Director, Division of Vaccines and Related
Products Applications/Office of Vaccines
Research and Review/CBER/FDA

- I concur with the summary review.
- I concur with the summary review and include a separate review to add further analysis.
- I do not concur with the summary review and include a separate review.

STN 103666/5277	
Chair/Regulatory Project Manager	Holly Wieland, RN, MPH
Clinical Reviewer	Tina Khoie, MD, MPH

1. Introduction

This efficacy supplement includes data that CBER requested to support the specific wording the sponsor proposed to use regarding apnea in very premature infants for inclusion in the Warnings and Precautions Section of the Highlights of Prescribing Information and the Full Prescribing Information for DAPTACEL. To fulfill this request, the sponsor reviewed medical literature on post-vaccination apnea in premature infants and conducted a review of cases of apnea in infants reported to the company and which occurred in premature infants after receipt of Daptacel. This was referred to as the Safety Analysis Report.

CBER reclassified the submission, which was originally submitted as a labeling prior approval supplement, as an efficacy supplement, because the supplement contained clinical data. However, the user fee was waived, because the data support the addition of new safety data in the label and were requested by CBER.

Other proposed labeling revisions include the addition of the term “lymphadenopathy” in the postmarketing adverse reactions section of the package insert (section 6.2) and clarifying language in sections 2.2 (Administration) and 7.1 (Concomitant Administration with Other Vaccines).

2. Background

The sponsor is requesting FDA approval to make this change in order to globally implement consistent product/prescribing information for all the firm’s pediatric vaccine products based on the requirement established for EU labeling of pediatric vaccines.

3. Chemistry, Manufacturing and Controls (CMC)

Not applicable.

4. Nonclinical Pharmacology/Toxicology

Not applicable.

5. Clinical Pharmacology

Not applicable.

6. Clinical/ Statistical

It was concluded that the available data do not adequately address the need for respiratory monitoring for 48 to 72 hours post-vaccination. In addition, because the benefit of vaccination with Daptacel in preterm infants is not described in the package insert, it was not considered appropriate to include a statement that the benefit of vaccination is high in this group. The applicant was requested to revise the proposed language pertaining to apnea in premature infants based on the aforementioned conclusions.

It was concluded that sufficient data were provided to support the addition of the term "lymphadenopathy" to the postmarketing adverse reactions section (6.2) of the package insert.

7. Safety

Not applicable.

8. Advisory Committee Meeting

There were no issues in this supplement that required input from an Advisory Committee.

9. Other Relevant Regulatory Issues

Not applicable.

10. Labeling

On July 9, 2012, the sponsor agreed to all the requested labeling revisions, including those comments that were sent to the sponsor on June 28, 2012. In summary, these labeling changes were as follows:

1. In the **HIGHLIGHTS OF PRESCRIBING INFORMATION RECENT MAJOR CHANGES** Section the sponsor agreed to remove "Dosage and Administration, Administration (2.2)" given that the proposed revisions are not considered major changes.
2. In the **HIGHLIGHTS OF PRESCRIBING INFORMATION WARNINGS AND PRECAUTIONS** Section, the sponsor agreed to revise the proposed language regarding apnea in premature infants to be consistent with language that has been incorporated into other labels recently (i.e., please refer to the Infanrix, Pediarix, and Prevnar 13 package inserts), as advised by CBER. This revised language reads as follows:

"Apnea following intramuscular vaccination has been observed in some infants born prematurely. The decision about when to administer an intramuscular

vaccine, including DAPTACEL, to an infant born prematurely should be based on consideration of the individual infant's medical status and the potential benefits and possible risks of vaccination."

3. In the **FULL PRESCRIBING INFORMATION ADMINISTRATION** (Section 2.2):

- a. In accordance with 21 CFR 201.57(c)(3)(iv), the sponsor agreed to add the phrase, "whenever solution and container permit" at the end of the sentence that reads "Parental drug products should be inspected visually for particulate matter and discoloration prior to administration."
- b. The sponsor agreed to remove the following proposed text from the label: "Prior to use, inspect the vial for evidence of leakage or a faulty seal." CBER explained that this proposed statement implies that there may be a problem with the manufacture of the vial or vial seal, and such language is not typically included in the package insert for a vaccine product
- c. The sponsor agreed to revise the last sentence in the first paragraph under section 2.2 to read as follows: "If either of these conditions exists, the product should not be administered."
- d. The sponsor agreed to add language similar to that in section 2.1 of the Adacel package insert regarding the need to use a separate sterile needle and syringe for each injection and language regarding changing needles.

4. In the **FULL PRESCRIBING INFORMATION WARNINGS AND PRECAUTIONS: APNEA IN PREMATURE INFANTS** (Section 5.7), the sponsor agreed to include the following statement:

"Apnea following intramuscular vaccination has been observed in some infants born prematurely. The decision about when to administer an intramuscular vaccine, including Daptacel, to an infant born prematurely should be based on consideration of the individual infant's medical status and the potential benefits and possible risks of vaccination."

5. In the **FULL PRESCRIBING INFORMATION ADVERSE REACTIONS: DATA FROM POST-MARKETING EXPERIENCE** (Section 6.2), the sponsor added "lymphadenopathy" as an event in the postmarketing adverse reactions section of the package insert with CBER's concurrence after review of representative case report forms for lymphadenopathy events involving Daptacel, submitted in response to CBER's request for such.

11. Recommendations and Risk/ Benefit Assessment

Recommend: Approval of this supplement with the labeling revisions as stated.