

**TCTR ID : TCTR20190927006**

**Overall Recruitment Status : Completed (No Results)**

**OTHER ID :**

**Prospective registration**  
**This protocol was registered before enrollment of the first participant.**

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**Tracking Information**

First Submitted Date : 27 September 2019

First Posted Date : 27 September 2019

Last Update Posted Date : 11 October 2023

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**Title**

Public Title : Safety and Antibody Responses in Adults and Elderly after Immunization with a Recombinant Pertussis Booster Dose

Acronym : TDA206

Scientific Title : A phase III randomized, observer-blind, active-controlled study to compare the safety and immunogenicity of an investigational combined Tetanus-diphtheria-recombinant acellular pertussis vaccine (BioNet Tdap) and licensed recombinant TdaP vaccine (Boostagen), investigational recombinant monovalent acellular pertussis vaccine (BioNet ap) and licensed recombinant aP vaccine (Pertagen), and another licensed Tdap vaccine, when administered to healthy adults aged of 18-75 years old

Sponsor ID/ IRB ID/ EC ID : TDA206

Registration Site : Thai Clinical Trials Registry

URL : <https://www.thaiclinicaltrials.org/show/TCTR20190927006>

Secondary ID : No Secondary ID

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**Ethics Review**

1. Board Approval : Submitted, approved

Approval Number : COA No.063/2020

Date of Approval : 28 January 2020

Board Name : Institutional Review Board

Board Affiliation : Faculty of Medicine, Chulalongkorn University

Board Contact : Business Phone : 022564493 Ext. N/A

Business Email : medchulairb@chula.ac.th

Business Address : 1873 Rama IV Road, Patumwan, Bangkok 10330, Thailand

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**Sponsor**

Source(s) of Monetary or Material Supports : Thai government Fund

Study Primary Sponsor : Chulalongkorn University

Responsible Party : Name/Official Title : Wassana Wijknananlan

Organization : BioNet-Asia Co., Ltd.

Phone : 023618110 Ext. 271

Email : wassana.w@bionet-asia.com

Study Secondary Sponsor : BioNet-Asia Co., Ltd.

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**Protocol Synopsis**

Protocol Synopsis : This is a phase III, observer-blind, randomized, active controlled pertussis vaccine trial in which 750 healthy adults aged of 18-75 years old will be recruited from one study site in Thailand.

**URL not available**

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**Health Conditions**

Health Condition(s) or Problem(s) Studied : Pertussis vaccine

Keywords : Pertussis vaccine

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**Eligibility**

Inclusion Criteria : 1. Aged 18 to 64 years (less than 65 years full of age) or 65 to 75 years (less than 76 years full of age) on the day of inclusion;

2. Can provide written informed consent;
3. Healthy, as established by pertinent medical history and physical examination;
4. Capable of complying with the study protocol and procedures;
5. For women who have not had menopause, must have a negative urine pregnancy test at enrollment and willing to take reliable birth control measures for two months after vaccination.

Gender : Both

Age Limit : Minimum : 18 Years Maximum : 75 Years

- Exclusion Criteria :
1. History of significant medical illness such as but not limited to immune deficiency, clinically significant psychiatric, hematologic, pulmonary, cardiovascular, or hepatic, renal, splenic or thymic functional abnormality as determined by the investigator based on medical history and physical examination that may interfere with the participations safety and the evaluation of investigational vaccines in this study;
  2. Breastfeeding women or female participants who intend to become pregnant during the study period;
  3. History of a severe allergic reaction to any vaccine (including its components);
  4. History of serious adverse event or neurological adverse event to any vaccination;
  5. Receipt of any investigational product or licensed vaccine within 30 days prior to enrollment (3 months for live-attenuated vaccines);
  6. Plan to receive tetanus, diphtheria or pertussis vaccine or plan to participate in other clinical trial during the study period (approximately one year);
  7. Having been experienced physician-diagnosed pertussis within 1 year prior to enrollment;
  8. Receipt of diphtheria or tetanus or pertussis vaccine within 1 year prior to enrollment;
  9. Any chronic or active neurologic disorder, including seizure, and epilepsy;
  10. Has a known history of Guillain-Barr Syndrome;
  11. Has an active malignancy or recent (<10 years) history of metastatic or hematologic malignancy;
  12. Any bleeding disorder indicated;
  13. Suspected or known alcoholism and/or illicit drug abuse within the past 5 years;
  14. Administration of immunoglobulins and/or any blood products within 3 months preceding study entry or planned administration during the study period;
  15. History of receiving immunosuppressive drugs or systemic corticosteroid (>0.5 mg/kg of prednisolone or equivalent for more than 14 days) within 3 months prior to study entry;
  16. Has any active clinically significant finding or life-threatening disease that, in the opinion of the investigator, would increase the risk of the individual having an adverse outcome by participating in this study.

Accept Healthy Volunteers : Yes

## Status

Overall Recruitment Status : Completed

Key Trial Dates	Study Start Date (First enrollment) : 10 February 2020	Indicate Type : Actual
	Completion Date (Last subject, Last visit) : 30 August 2021	Indicate Type : Actual
	Study Completion Date : 12 January 2023	Indicate Type : Actual

## Design

Study Type :	Interventional
Primary Purpose :	Prevention
Study Phase :	Phase 3
Intervention Model :	Parallel
Number of Arms :	5
Masking :	
Allocation :	Randomized
Control :	Active
Study Endpoint Classification :	Safety/Efficacy Study
Sample size	
	Planned sample size : 750
	Actual sample size at study completion : 734
Intervention Arm 1	
	Intervention name : BioNet ap
	Intervention Type : Experimental
	Intervention Classification : Biological/Vaccine
	Intervention Description : Acellular pertussis (ap) vaccine given intramuscularly as a single dose (0.5 ml) on day 0

Intervention Arm 2

Intervention name : BioNet Tdap

Intervention Type : Experimental

Intervention Classification : Biological/Vaccine

Intervention Description : Tetanus toxoid, diphtheria toxoid and medium dose of recombinant acellular pertussis vaccine given intramuscularly as a single dose (0.5 ml) on day 0

Intervention Arm 3

Intervention name : Licensed aP

Intervention Type : Experimental

Intervention Classification : Biological/Vaccine

Intervention Description : Acellular pertussis (aP) vaccine given intramuscularly as a single dose (0.5 ml) on day 0

Intervention Arm 4

Intervention name : Licensed Tdap

Intervention Type : Experimental

Intervention Classification : Biological/Vaccine

Intervention Description : Tetanus toxoid, diphtheria toxoid and recombinant acellular pertussis (Tdap) vaccine given intramuscularly as a single dose (0.5 ml) on day 0

Intervention Arm 5

Intervention name : Licensed Tdap

Intervention Type : Active Comparator

Intervention Classification : Biological/Vaccine

Intervention Description : Tetanus toxoid, diphtheria toxoid and acellular pertussis vaccine, adsorbed (Tdap) given intramuscularly as a single dose (0.5 ml) on day 0

**Outcome**

**Primary Outcome**

1. Outcome Name : Percentages of participants with post-immunization local and systemic reactions

Metric / Method of measurement : Self assessment by participant and data record from Diary Card

Time point : During 7 days following vaccination

2. Outcome Name : Percentages of participants with AEs

Metric / Method of measurement : AEs reported by participant

Time point : During 28 days following vaccination

3. Outcome Name : Percentages of participants with SAEs

Metric / Method of measurement : SAEs reported by participant

Time point : From the day of vaccination until Day 28 following vaccination

**Secondary Outcome**

1. Outcome Name : Seroconversion rates of PT and FHA antibodies in each study vaccine group

Metric / Method of measurement : ELISA

Time point : Day 28 and 1 year after vaccination

2. Outcome Name : Seroconversion rates of tetanus and diphtheria antibodies in BioNet Recombinant Tdap

Metric / Method of measurement : ELISA

Time point : Day 28 and 1 year after vaccination

3. Outcome Name : Seroconversion rates of tetanus and diphtheria antibodies in licensed Tdap

Metric / Method of measurement : ELISA

Time point : Day 28 and 1 year after vaccination

4. Outcome Name : Seroconversion rates of tetanus and diphtheria antibodies in Licensed Tdap (comparator)

Metric / Method of measurement : ELISA

Time point : Day 28 and 1 year after vaccination

5. Outcome Name : GMT antibody concentrations to PT, FHA, tetanus and diphtheria in BioNet Recombinant Tdap

Metric / Method of measurement : ELISA and PT neutralizing assay in CHO cells

Time point : Day 0, 28 and 1 year after vaccination

6. Outcome Name : GMT antibody concentrations to PT, FHA, tetanus and diphtheria in licensed TdaP  
Metric / Method of measurement : ELISA and PT neutralizing assay in CHO cells  
Time point : Day 0, 28 and 1 year after vaccination
7. Outcome Name : GMT antibody concentrations to PT, FHA, tetanus and diphtheria in licensed Tdap (comparator)  
Metric / Method of measurement : ELISA and PT neutralizing assay in CHO cells  
Time point : Day 0, 28 and 1 year after vaccination
8. Outcome Name : GMT antibody concentrations to PT, FHA in BioNet Recombinant ap and licensed aP  
Metric / Method of measurement : ELISA and PT neutralizing assay in CHO cells  
Time point : Day 0, 28 and 1 year after vaccination
9. Outcome Name : Seroconversion rates of PT antibodies in each studies vaccine group  
Metric / Method of measurement : PT neutralizing assay in CHO cells  
Time point : At day 28 and 1 year after vaccination
10. Outcome Name : Percentages of participants with SAEs  
Metric / Method of measurement : SAEs reported by participant  
Time point : 1 year after vaccination

## Location

### Section A : Central Contact

Central Contact	First Name : Vilasinee	Middle Name :	Last Name : Yuwaree
	Degree :	Phone : 023618110 Ext. : 271	Email : vilasinee.y@bionet-asia.com
Central Contact Backup	First Name : Vilasinee	Middle Name :	Lastname : Yuwaree
	Degree :	Phone : 023618110 Ext. : 271	Email : vilasinee.y@bionet-asia.com

### Section B Facility Information and Contact

1. Site Name : Division of Infectious Disease Department of Medicine, Faculty of Medicine, Chulalongkorn University

City : Bangkok      State/Province : Bangkok      Postal Code : 10330  
Country : Thailand      Recruitment Status : Completed

<b>Facility Contact</b>	First Name : Vilasinee	Middle Name :	Last Name : Yuwaree
	Degree :	Phone : 023618110 Ext. : 271	Email : vilasinee.y@bionet-asia.com

<b>Facility Contact Backup</b>	First Name : Supalak	Middle Name :	Last Name : Yacharoen
	Degree :	Phone : 023618110 Ext. : 271	Email : supalak.y@bionet-asia.com

<b>Investigator Name</b>	First Name : Prof. Teerapong	Middle Name :	Last Name : Tantawichien
	Degree : MD.	Role : Principal Investigator	

### Section C : Contact for Public Queries (Responsible Person)

First Name : Souad	Middle Name :	Last Name : Mansouri
Degree : PhD.	Phone : 023618110 Ext. : 271	Email : souad.m@bionet-asia.com
Postal Address : BioNet-Asia Co., Ltd. (Branch 1), Hi-Tech Industrial Estate, 81 Moo 1, Baan-Lane, Bang Pa-In		
State/Province : Ayutthaya	Postal Code : 13160	
Country : Thailand	Official Role : Study Director	
Organization Affiliation : BioNet-Asia Co., Ltd.		

### Section D : Contact for Scientific Queries (Responsible Person)

First Name : Souad	Middle Name :	Last Name : Mansouri
Degree : PhD.	Phone : 023618110 Ext. : 271	Email : souad.m@bionet-asia.com
Postal Address : BioNet-Asia Co., Ltd. (Branch 1), Hi-Tech Industrial Estate, 81 Moo 1, Baan-Lane, Bang Pa-In		
State/Province : Ayutthaya	Postal Code : 13160	
Country : Thailand	Official Role : Study Director	
Organization Affiliation : BioNet-Asia Co., Ltd.		

## Summary Results

Date of posting of results summaries : Summary results not yet available  
Date of first journal publication of results : Not yet published

**Deidentified Individual Participant-level Data Sharing**

Plan to share IPD : No

Reason : Undecided

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**Publication from this study**

MEDLINE Identifier : No Data

URL link to full text publication : No Data

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