

**Clinical trial results:****One-, Three-, Five-, and Ten-Year Data on the Long-Term Immunogenicity of Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine Adsorbed (Tdap) in Adults and Adolescents (11-64 years)****Summary**

EudraCT number	2015-005845-30
Trial protocol	Outside EU/EEA
Global end of trial date	29 August 2012

**Results information**

Result version number	v1 (current)
This version publication date	16 April 2016
First version publication date	16 April 2016

**Trial information****Trial identification**

Sponsor protocol code	Td506-LT
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**Additional study identifiers**

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	-
WHO universal trial number (UTN)	-

Notes:

**Sponsors**

Sponsor organisation name	Sanofi Pasteur Limited
Sponsor organisation address	1755 Steeles Ave. West, Toronto, Canada, M2R 3T4
Public contact	Clinical/Medical Monitor, Sanofi Pasteur, 1 570-957-1506, Dr.Johnson@sanofipasteur.com
Scientific contact	Clinical/Medical Monitor, Sanofi Pasteur, 1 570-957-1506, Dr.Johnson@sanofipasteur.com

Notes:

**Paediatric regulatory details**

Is trial part of an agreed paediatric investigation plan (PIP)	No
Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial?	Yes
Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial?	No

Notes:

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**Results analysis stage**

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Analysis stage	Final
Date of interim/final analysis	29 August 2012
Is this the analysis of the primary completion data?	No

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Global end of trial reached?	Yes
Global end of trial date	29 August 2012
Was the trial ended prematurely?	No

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Notes:

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**General information about the trial**

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Main objective of the trial:

Long-term follow-up study to describe the profile of antibody levels after booster vaccination with Tdap vaccine or Td vaccine at 1-month, 1-, 3-, and 5-years postvaccination and Tdap only at 10 years post-vaccination.

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Protection of trial subjects:

Subjects were vaccinated in a previous study, Td506. No vaccination was administered as part of this long-term immunogenicity study.

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Background therapy:

A subset (189) of the Per-Protocol Immunogenicity (PPI) Paired Population from the Tdap vaccine group (2296 subjects) in the main study were in the 10-year follow up immunogenicity follow-up analysis. The Per-Protocol Immunogenicity (PPI) Paired Population for the 10-year follow-up analyses included subjects from the PPI-1 year, PPI-3 year, PPI-5 year, and PPI-10 year populations who provided blood samples at all 4 follow-up visits, i.e., at 1, 3, 5, and 10 years, and who did not receive any diphtheria-, tetanus-, or pertussis-containing vaccine between 1-month and 10-years after vaccination or did not report pertussis illness during this period.

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Evidence for comparator:

Not applicable

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Actual start date of recruitment	28 August 2002
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	No

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Notes:

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**Population of trial subjects**

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**Subjects enrolled per country**

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Country: Number of subjects enrolled	United States: 189
Worldwide total number of subjects	189
EEA total number of subjects	0

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Notes:

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**Subjects enrolled per age group**

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In utero	0
Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	0

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Children (2-11 years)	0
Adolescents (12-17 years)	44
Adults (18-64 years)	145
From 65 to 84 years	0
85 years and over	0

## Subject disposition

### Recruitment

Recruitment details:

A subset of the Per-Protocol Immunogenicity (PPI) Paired Population from the Tdap vaccine group in the main study were in the 10-year follow up immunogenicity follow-up study.

### Pre-assignment

Screening details:

A subset (189) of the Tdap vaccine group in the original study (paired per-protocol population) were included in the 10-year long-term immunogenicity analysis.

### Period 1

Period 1 title	Overall trial (overall period)
Is this the baseline period?	Yes
Allocation method	Not applicable
Blinding used	Not blinded

Blinding implementation details:

Not applicable

### Arms

<b>Arm title</b>	Tdap Vaccine
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Arm description:

A subset of subjects (paired per-protocol population) that received 1 dose of Tdap vaccine (Adacel®) in the original Td506 study.

Arm type	Experimental
Investigational medicinal product name	Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine Adsorbed (Adacel®)
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Suspension for injection
Routes of administration	Intramuscular use

Dosage and administration details:

No vaccine was administered in the long-term follow-up study. (Subjects received 1 injection, 0.5 mL by intramuscular route on Day 0 in the original Td506 study)

<b>Number of subjects in period 1</b>	Tdap Vaccine
Started	189
Completed	189

## Baseline characteristics

### Reporting groups

Reporting group title	Tdap Vaccine
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Reporting group description:

A subset of subjects (paired per-protocol population) that received 1 dose of Tdap vaccine (Adacel®) in the original Td506 study.

Reporting group values	Tdap Vaccine	Total	
Number of subjects	189	189	
Age categorical			
Units: Subjects			
In utero	0	0	
Preterm newborn infants (gestational age < 37 wks)	0	0	
Newborns (0-27 days)	0	0	
Infants and toddlers (28 days-23 months)	0	0	
Children (2-11 years)	0	0	
Adolescents (12-17 years)	44	44	
Adults (18-64 years)	145	145	
From 65-84 years	0	0	
85 years and over	0	0	
Age continuous			
Units: years			
arithmetic mean	29		
standard deviation	± 16.4	-	
Gender categorical			
Units: Subjects			
Female	129	129	
Male	60	60	

## End points

### End points reporting groups

Reporting group title	Tdap Vaccine
Reporting group description:	
A subset of subjects (paired per-protocol population) that received 1 dose of Tdap vaccine (Adacel®) in the original Td506 study.	

### Primary: Percentage of Subjects with Seroprotection to Tetanus and Diphtheria Following Vaccination with Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine Adsorbed (Tdap) - ADACEL®

End point title	Percentage of Subjects with Seroprotection to Tetanus and Diphtheria Following Vaccination with Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine Adsorbed (Tdap) - ADACEL® <sup>[1]</sup>
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#### End point description:

Anti-Diphtheria antibody responses were measured by the ability of the test sera to protect Vero cells from a diphtheria toxin challenge. Anti-Tetanus antibody responses were measured by an indirect enzyme-linked immunosorbent assay method. Seroprotection was defined as diphtheria and tetanus titers  $\geq 0.01$  IU/mL and  $\geq 0.1$  IU/mL.

End point type	Primary
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#### End point timeframe:

Day 0 (pre-vaccination) and 1 month and 1, 3, 5, 10 years post-vaccination

#### Notes:

[1] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Descriptive analyses were performed, based on the vaccine groups from the primary series for the long term follow-up period.

End point values	Tdap Vaccine			
Subject group type	Reporting group			
Number of subjects analysed	62 <sup>[2]</sup>			
Units: Percentage of subjects				
number (not applicable)				
Diphtheria; $\geq 0.01$ IU/mL; 11-17 yrs; Pre-injection	100			
Diphtheria; $\geq 0.01$ IU/mL; 18-64 yrs; Pre-injection	91.9			
Diphtheria; $\geq 0.01$ IU/mL; 11-17 yrs; 1 mth; Post-inj.	100			
Diphtheria; $\geq 0.01$ IU/mL; 18-64 yrs; 1 mth; Post-inj.	98.4			
Diphtheria; $\geq 0.01$ IU/mL; 11-17 yrs; 1 yr; Post-inj.	100			
Diphtheria; $\geq 0.01$ IU/mL; 18-64 yrs; 1 yr; Post-inj.	98.4			
Diphtheria; $\geq 0.01$ IU/mL; 11-17 yrs; 3 yrs; Post-inj.	100			
Diphtheria; $\geq 0.01$ IU/mL; 18-64 yrs; 3 yrs; Post-inj.	98.4			
Diphtheria; $\geq 0.01$ IU/mL; 11-17 yrs; 5 yrs; Post-inj.	100			
Diphtheria; $\geq 0.01$ IU/mL; 18-64 yrs; 5 yrs; Post-inj.	98.4			

Diphtheria; $\geq 0.01$ IU/mL; 11-17 yrs; 10 yrs; Post-inj.	100			
Diphtheria; $\geq 0.01$ IU/mL; 18-64 yrs; 10 yrs; Post-inj.	98.4			
Tetanus; $\geq 0.01$ IU/mL; 11-17 yrs; Pre-injection	100			
Tetanus; $\geq 0.01$ IU/mL; 18-64 yrs; Pre-injection	100			
Tetanus; $\geq 0.01$ IU/mL; 11-17 yrs; 1 mth Post-inj.	100			
Tetanus; $\geq 0.01$ IU/mL; 18-64 yrs; 1 mth Post-inj.	100			
Tetanus; $\geq 0.01$ IU/mL; 11-17 yrs; 1 year Post-inj.	100			
Tetanus; $\geq 0.01$ IU/mL; 18-64 yrs; 1 year Post-inj.	100			
Tetanus; $\geq 0.01$ IU/mL; 11-17 yrs; 3 yrs Post-inj.	100			
Tetanus; $\geq 0.01$ IU/mL; 18-64 yrs; 3 yrs Post-inj.	100			
Tetanus; $\geq 0.01$ IU/mL; 11-17 yrs; 5 yrs Post-inj.	100			
Tetanus; $\geq 0.01$ IU/mL; 18-64 yrs; 5 yrs Post-inj.	100			
Tetanus; $\geq 0.01$ IU/mL; 11-17 yrs; 10 yrs Post-inj.	100			
Tetanus; $\geq 0.01$ IU/mL; 18-64 yrs; 10 yrs Post-inj.	100			
Diphtheria; $\geq 0.1$ IU/mL; 11-17 yrs; Pre-injection	70.6			
Diphtheria; $\geq 0.1$ IU/mL; 18-64 yrs; Pre-injection	64.5			
Diphtheria; $\geq 0.1$ IU/mL; 11-17 yrs; 1 mth; Post-inj.	100			
Diphtheria; $\geq 0.1$ IU/mL; 18-64 yrs; 1 mth; Post-inj.	98.4			
Diphtheria; $\geq 0.1$ IU/mL; 11-17 yrs; 1 yr; Post-inj.	100			
Diphtheria; $\geq 0.1$ IU/mL; 18-64 yrs; 1 yr; Post-inj.	93.5			
Diphtheria; $\geq 0.1$ IU/mL; 11-17 yrs; 3 yrs; Post-inj.	100			
Diphtheria; $\geq 0.1$ IU/mL; 18-64 yrs; 3 yrs; Post-inj.	88.7			
Diphtheria; $\geq 0.1$ IU/mL; 11-17 yrs; 5 yrs; Post-inj.	88.2			
Diphtheria; $\geq 0.1$ IU/mL; 18-64 yrs; 5 yrs; Post-inj.	90.3			
Diphtheria; $\geq 0.1$ IU/mL; 11-17 yrs; 10 yrs; Post-inj.	94.1			
Diphtheria; $\geq 0.1$ IU/mL; 18-64 yrs; 10 yrs; Post-inj.	85.5			
Tetanus; $\geq 0.1$ IU/mL; 11-17 yrs; Pre-injection	100			
Tetanus; $\geq 0.1$ IU/mL; 18-64 yrs; Pre-injection	100			
Tetanus; $\geq 0.1$ IU/mL; 11-17 yrs; 1 mth; Post-inj.	100			
Tetanus; $\geq 0.1$ IU/mL; 18-64 yrs; 1 mth; Post-inj.	100			
Tetanus; $\geq 0.1$ IU/mL; 11-17 yrs; 1 year; Post-inj.	100			

Tetanus; $\geq 0.1$ IU/mL; 18-64 yrs; 1 year; Post-inj.	100			
Tetanus; $\geq 0.1$ IU/mL; 11-17 yrs; 3 yrs; Post-inj.	100			
Tetanus; $\geq 0.1$ IU/mL; 18-64 yrs; 3 yrs; Post-inj.	98.4			
Tetanus; $\geq 0.1$ IU/mL; 11-17 yrs; 5 yrs; Post-inj.	100			
Tetanus; $\geq 0.1$ IU/mL; 18-64 yrs; 5 yrs; Post-inj.	98.4			
Tetanus; $\geq 0.1$ IU/mL; 11-17 yrs; 10 yrs; Post-inj.	100			
Tetanus; $\geq 0.1$ IU/mL; 18-64 yrs; 10 yrs; Post-inj.	100			

Notes:

[2] - N represents the PPI Paired population subset.

## Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Summary of Geometric Mean Concentrations of Anti-Tetanus and Anti-Diphtheria Titers Following Vaccination with Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine Adsorbed (Tdap) - ADACEL®

End point title	Summary of Geometric Mean Concentrations of Anti-Tetanus and Anti-Diphtheria Titers Following Vaccination with Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine Adsorbed (Tdap) - ADACEL®
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End point description:

Anti-Diphtheria antibody responses were measured by the ability of the test sera to protect Vero cells from a diphtheria toxin challenge. Anti-Tetanus antibody responses were measured by an indirect enzyme-linked immunosorbent assay method.

End point type	Other pre-specified
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End point timeframe:

Day 0 (pre-vaccination) and 1 month and 1, 3, 5, 10 years post-vaccination

End point values	Tdap Vaccine			
Subject group type	Reporting group			
Number of subjects analysed	62 <sup>[3]</sup>			
Units: Titers (1/dil)				
geometric mean (confidence interval 95%)				
Diphtheria; 11-17 years; Pre-injection	0.17 (0.09 to 0.32)			
Diphtheria; 18-64 years; Pre-injection	0.18 (0.11 to 0.29)			
Diphtheria; 11-17 years; 1 month Post-injection	6.03 (4.08 to 8.89)			
Diphtheria; 18-64 years; 1 month Post-injection	3.74 (2.41 to 5.81)			
Diphtheria; 11-17 years; 1 year Post-injection	2.27 (1.34 to 3.82)			
Diphtheria; 18-64 years; 1 year Post-injection	1.34 (0.89 to 2.02)			

Diphtheria; 11-17 years; 3 years Post-injection	0.85 (0.53 to 1.37)			
Diphtheria; 18-64 years; 3 years Post-injection	0.55 (0.39 to 0.79)			
Diphtheria; 11-17 years; 5 years Post-injection	1 (0.46 to 2.18)			
Diphtheria; 18-64 years; 5 years Post-injection	0.59 (0.4 to 0.87)			
Diphtheria; 11-17 years; 10 years Post-injection	0.82 (0.44 to 1.53)			
Diphtheria; 18-64 years; 10 years Post-injection	0.43 (0.29 to 0.62)			
Tetanus; 11-17 years; Pre-injection	1.19 (0.71 to 2.01)			
Tetanus; 18-64 years; Pre-injection	1.68 (1.32 to 2.15)			
Tetanus; 11-17 years; 1 month Post-injection	12.82 (9.14 to 17.98)			
Tetanus; 18-64 years; 1 month Post-injection	8.96 (7.65 to 10.5)			
Tetanus; 11-17 years; 1 year Post-injection	5.46 (4.27 to 6.98)			
Tetanus; 18-64 years; 1 year Post-injection	4.1 (3.51 to 4.79)			
Tetanus; 11-17 years; 3 years Post-injection	3.47 (2.55 to 4.73)			
Tetanus; 18-64 years; 3 years Post-injection	3.31 (2.78 to 3.93)			
Tetanus; 11-17 years; 5 years Post-injection	2.5 (1.78 to 3.53)			
Tetanus; 18-64 years; 5 years Post-injection	2.49 (2.08 to 2.97)			
Tetanus; 11-17 years; 10 years Post-injection	2.08 (1.42 to 3.03)			
Tetanus; 18-64 years; 10 years Post-injection	3 (2.53 to 3.56)			

Notes:

[3] - N represents the PPI Paired population subset.

## Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Summary of Geometric Mean of Anti-Pertussis Titers Following Vaccination with Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine Adsorbed (Tdap) - ADACEL®

End point title	Summary of Geometric Mean of Anti-Pertussis Titers Following Vaccination with Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine Adsorbed (Tdap) - ADACEL®
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End point description:

Anti-Pertussis Toxoid (PT), anti-Filamentous hemagglutinin (FHA), anti-Fimbriae (FIM), and anti-Pertactin (PRN) immunoglobulin antibody titers were determined by an indirect ELISA method.

End point type	Other pre-specified
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End point timeframe:

Day 0 (pre-vaccination) and 1 month and 1, 3, 5, 10 years post-vaccination

<b>End point values</b>	Tdap Vaccine			
Subject group type	Reporting group			
Number of subjects analysed	62 <sup>[4]</sup>			
Units: Titers (1/dil)				
geometric mean (confidence interval 95%)				
PT; 11-17 years; Pre-injection	15.42 (7.1 to 33.48)			
PT; 18-64 years; Pre-injection	9.92 (7.45 to 13.21)			
PT; 11-17 years; 1 month Post-injection	318.34 (199.39 to 508.23)			
PT; 18-64 years; 1 month Post-injection	136.61 (104.68 to 178.27)			
PT; 11-17 years; 1 year Post-injection	93.28 (48.36 to 179.93)			
PT; 18-64 years; 1 year Post-injection	58.85 (43.89 to 78.91)			
PT; 11-17 years; 3 years Post-injection	52.22 (27.19 to 100.3)			
PT; 18-64 years; 3 years Post-injection	46.26 (34.07 to 62.82)			
PT; 11-17 years; 5 years Post-injection	11.63 (5.56 to 24.32)			
PT; 18-64 years; 5 years Post-injection	14.68 (11.43 to 18.84)			
PT; 11-17 years; 10 years Post-injection	18.4 (7.31 to 46.3)			
PT; 18-64 years; 10 years Post-injection	11.9 (9.11 to 15.54)			
FHA; 11-17 years; Pre-injection	20.79 (9.16 to 47.19)			
FHA; 18-64 years; Pre-injection	14.91 (12 to 18.52)			
FHA; 11-17 years; 1 month Post-injection	209.85 (146.27 to 301.07)			
FHA; 18-64 years; 1 month Post-injection	172 (139.91 to 211.44)			
FHA; 11-17 years; 1 year Post-injection	87.43 (60.95 to 125.43)			
FHA; 18-64 years; 1 year Post-injection	81.92 (65.97 to 101.71)			
FHA; 11-17 years; 3 years Post-injection	56.42 (38.75 to 82.15)			
FHA; 18-64 years; 3 years Post-injection	56.83 (44.84 to 72.01)			
FHA; 11-17 years; 5 years Post-injection	37.35 (26.48 to 52.69)			
FHA; 18-64 years; 5 years Post-injection	35.1 (29.42 to 41.87)			
FHA; 11-17 years; 10 years Post-injection	39.15 (28.03 to 54.67)			
FHA; 18-64 years; 10 years Post-injection	37.95 (31.26 to 46.08)			
PRN; 11-17 years; Pre-injection	10.46 (4.42 to 24.73)			
PRN; 18-64 years; Pre-injection	8.36 (5.93 to 11.78)			

PRN; 11-17 years; 1 month Post-injection	402.73 (238.34 to 680.49)			
PRN; 18-64 years; 1 month Post-injection	420.9 (308.31 to 574.61)			
PRN; 11-17 years; 1 year Post-injection	129.91 (84.26 to 200.28)			
PRN; 18-64 years; 1 year Post-injection	172.85 (126.71 to 235.8)			
PRN; 11-17 years; 3 years Post-injection	88.55 (56.21 to 139.49)			
PRN; 18-64 years; 3 years Post-injection	128.78 (95.3 to 174.03)			
PRN; 11-17 years; 5 years Post-injection	49.88 (28.63 to 86.9)			
PRN; 18-64 years; 5 years Post-injection	78.5 (57.26 to 107.62)			
PRN; 11-17 years; 10 years Post-injection	67.05 (34.34 to 130.91)			
PRN; 18-64 years; 10 years Post-injection	78.59 (58.37 to 105.82)			
FIM; 11-17 years; Pre-injection	25.98 (14.37 to 46.97)			
FIM; 18-64 years; Pre-injection	27.35 (20.18 to 37.06)			
FIM; 11-17 years; 1 month Post-injection	1627.76 (1078.93 to 2455.75)			
FIM; 18-64 years; 1 month Post-injection	749.07 (545.32 to 1028.95)			
FIM; 11-17 years; 1 year Post-injection	653.13 (322.49 to 1322.75)			
FIM; 18-64 years; 1 year Post-injection	296.74 (217.99 to 403.92)			
FIM; 11-17 years; 3 years Post-injection	344.71 (193 to 615.64)			
FIM; 18-64 years; 3 years Post-injection	179.82 (132.58 to 243.88)			
FIM; 11-17 years; 5 years Post-injection	269.75 (162.47 to 447.86)			
FIM; 18-64 years; 5 years Post-injection	166.43 (122.72 to 225.7)			
FIM; 11-17 years; 10 years Post-injection	215.55 (129.09 to 359.91)			
FIM; 18-64 years; 10 years Post-injection	118.43 (91.88 to 152.65)			

Notes:

[4] - N represents the PPI Paired population subset.

## Statistical analyses

No statistical analyses for this end point

**Other pre-specified: Percentage of Subjects with Seropositivity to Pertussis antigens Following Vaccination with Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine Adsorbed (Tdap) - ADACEL®**

End point title	Percentage of Subjects with Seropositivity to Pertussis antigens Following Vaccination with Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine Adsorbed (Tdap) - ADACEL®
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End point description:

Anti-Pertussis Toxoid (PT), anti-Filamentous hemagglutinin (FHA), anti-Fimbriae (FIM), and anti-Pertactin (PRN) immunoglobulin antibody titers were determined by an indirect ELISA method. Seropositivity  $\geq$  4X lower limit of quantitation (LLOQ) was  $\geq$  16 EU/mL for PT, FIM, and PRN and  $\geq$  12 EU/mL for FHA.

End point type	Other pre-specified
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End point timeframe:

Day 0 (pre-vaccination) and 1 month and 1, 3, 5, 10 years post-vaccination

<b>End point values</b>	Tdap Vaccine			
Subject group type	Reporting group			
Number of subjects analysed	62 <sup>[5]</sup>			
Units: Percentage of subjects				
number (not applicable)				
PT; 11-17 years; Pre-injection	41.2			
PT; 18-64 years; Pre-injection	35.5			
PT; 11-17 years; 1 month Post-injection	100			
PT; 18-64 years; 1 month Post-injection	95.2			
PT; 11-17 years; 1 year Post-injection	82.4			
PT; 18-64 years; 1 year Post-injection	82.3			
PT; 11-17 years; 3 years Post-injection	88.2			
PT; 18-64 years; 3 years Post-injection	79			
PT; 11-17 years; 5 years Post-injection	35.3			
PT; 18-64 years; 5 years Post-injection	56.5			
PT; 11-17 years; 10 years Post-injection	54.5			
PT; 18-64 years; 10 years Post-injection	43.1			
FHA; 11-17 years; Pre-injection	52.9			
FHA; 18-64 years; Pre-injection	62.9			
FHA; 11-17 years; 1 month Post-injection	100			
FHA; 18-64 years; 1 month Post-injection	100			
FHA; 11-17 years; 1 year Post-injection	100			
FHA; 18-64 years; 1 year Post-injection	98.4			
FHA; 11-17 years; 3 years Post-injection	100			
FHA; 18-64 years; 3 years Post-injection	96.8			
FHA; 11-17 years; 5 years Post-injection	94.1			
FHA; 18-64 years; 5 years Post-injection	93.5			
FHA; 11-17 years; 10 years Post-injection	100			
FHA; 18-64 years; 10 years Post-injection	95.2			

PRN; 11-17 years; Pre-injection	47.1			
PRN; 18-64 years; Pre-injection	41.9			
PRN; 11-17 years; 1 month Post-injection	100			
PRN; 18-64 years; 1 month Post-injection	98.4			
PRN; 11-17 years; 1 year Post-injection	100			
PRN; 18-64 years; 1 year Post-injection	98.4			
PRN; 11-17 years; 3 years Post-injection	100			
PRN; 18-64 years; 3 years Post-injection	96.8			
PRN; 11-17 years; 5 years Post-injection	82.4			
PRN; 18-64 years; 5 years Post-injection	85.5			
PRN; 11-17 years; 10 years Post-injection	88.2			
PRN; 18-64 years; 10 years Post-injection	85.5			
FIM; 11-17 years; Pre-injection	23.5			
FIM; 18-64 years; Pre-injection	27.4			
FIM; 11-17 years; 1 month Post-injection	100			
FIM; 18-64 years; 1 month Post-injection	98.4			
FIM; 11-17 years; 1 year Post-injection	94.1			
FIM; 18-64 years; 1 year Post-injection	88.7			
FIM; 11-17 years; 3 years Post-injection	88.2			
FIM; 18-64 years; 3 years Post-injection	79			
FIM; 11-17 years; 5 years Post-injection	100			
FIM; 18-64 years; 5 years Post-injection	95.2			
FIM; 11-17 years; 10 years Post-injection	100			
FIM; 18-64 years; 10 years Post-injection	95.2			

Notes:

[5] - N represents the PPI Paired population subset.

## Statistical analyses

No statistical analyses for this end point

## Adverse events

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### Adverse events information<sup>[1]</sup>

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Timeframe for reporting adverse events:

This long-term immunogenicity study was a follow-up to study Td506 which evaluated the safety and immunogenicity of Tdap compared to Td vaccine. No vaccines were administered in this study and adverse event data were also not collected.

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Assessment type	Non-systematic
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### Dictionary used

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Dictionary name	MedDRA
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Dictionary version	10
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Frequency threshold for reporting non-serious adverse events: 5 %

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Notes:

[1] - There are no non-serious adverse events recorded for these results. It is expected that there will be at least one non-serious adverse event reported.

Justification: This long-term immunogenicity study was a follow-up to study Td506 which evaluated the safety and immunogenicity of Tdap compared to Td vaccine. No vaccines were administered in this study and adverse event data were also not collected.

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
23 July 2001	Involved study design changes to increase the safety database, subject follow-up duration, and included administrative changes for clarification.
30 April 2002	Added the long-term follow up for 1 year.
10 June 2004	Planned long-term follow up for 3 years and 5 years.
30 September 2005	Planned long-term follow up for 10 years.
15 June 2006	Updated study personnel throughout the protocol.
11 July 2011	Involved study design changes to increase the safety database, subject follow-up duration, and included administrative changes for clarification.

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported