

# Randomised, Double-blinded, Placebo-controlled Clinical Trial of Pandemic Influenza Inactive Vaccine on Healthy Subjects

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<b>Registration date</b> 17/08/2006	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 03/05/2019	<b>Condition category</b> Infections and Infestations	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data

**Plain English summary of protocol**  
Not provided at time of registration

## Contact information

**Type(s)**  
Scientific

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## Additional identifiers

**ClinicalTrials.gov (NCT)**  
NCT00356798

**Protocol serial number**  
PRO-PanFlu-1001

# Study information

## Scientific Title

Randomised, Double-blinded, Placebo-controlled Clinical Trial of Pandemic Influenza Inactive Vaccine on Healthy Subjects

## Acronym

RDPCTPIIVHS

## Study objectives

An inactivated monovalent A/H5N1 (influenza A virus) whole-virion, aluminum hydroxide adjuvated influenza vaccine will be safe and immunogenic in humans.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Ethics approval gained from the ethical review committee of China Japan Friendship Hospital dated on 12 December 2005 (reference: 2005NO[37]Total[99]).

## Study design

A stratified, randomised, placebo-controlled and double-blind phase I clinical trial

## Primary study design

Interventional

## Study type(s)

Prevention

## Health condition(s) or problem(s) studied

Pandemic influenza

## Interventions

The trial is divided into four dosage groups and processed from low dosage vaccine to high dosage vaccine:

1. Group A: 30 subjects will be randomly injected with vaccines among which 24 subjects will be injected with the trial vaccine (1.25 µg) antigen and the other six subjects will be randomised into a placebo group. All subjects will be observed for 30 minutes for immediate reactions. Local reactions and systemic reactions were then observed at six, 24, 48 and 72 hours. The second dose will be injected 28 days after the first dose. The dosage, injection and observation method are the same as the first one. Subjects will be followed up for 210 days. Serum will be collected before the injection and then at 14, 28, 42, 56, 210 days after injection. The serums will be tested by the Haemagglutination-Inhibition (HI) assay.

2. Group B: 72 hours after the injection of Group A, when the safety of the vaccine is confirmed, 30 subjects will be randomly injected with vaccines, among them, 24 subjects will receive the trial vaccine (2.5 µg) and the other six subjects will be receive the control. The methods of safety observation and blood collection are as same as Group A.

3. Group C: 72 hours after the injection of Group B, when the safety of vaccine is confirmed, 30 subjects will be randomly injected with the vaccine. In the same way, 24 subjects will receive the trial vaccine (5.0 µg) and the other six subjects will receive the control. The methods of safety observation and blood collection are as same as Group A.

4. Group D: 72 hours after injection for the Group C, when the safety of vaccine is confirmed, 30 subjects will be randomly injected with vaccines. Among them, 24 subjects will receive the trial vaccine (10.0 µg) and the other six subjects will receive the control. The methods of safety observation and blood collection are as same as Group A.

Trial vaccine is designed 0.5 ml per dose. The administration regimen is designed as a two dose schedule, which are given at day zero and day 28.

**Intervention Type**

Drug

**Phase**

Phase I

**Drug/device/biological/vaccine name(s)**

Influenza A virus vaccine

**Primary outcome(s)**

To evaluate the safety of pandemic inactivated influenza vaccine by different doses.

**Key secondary outcome(s)**

To evaluate the immunogenicity of pandemic inactivated influenza vaccine by different doses.

**Completion date**

05/06/2006

**Eligibility****Key inclusion criteria**

1. Males and females, aged from 18 to 60 years old
2. Able to provide proof of identity to the satisfaction of the study clinician completing the enrolment process
3. Able and willing to complete the informed consent process

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

## Upper age limit

60 years

## Sex

All

## Total final enrolment

120

## Key exclusion criteria

1. Women who are breast-feeding or planning to become pregnant during the following 210 days of study participation
2. Subjects who engage in the occupations of culturist, slaughter, sale and forwarder of any avian organisms
3. Subject has a medical history of any of the following:
  - a. allergic history, or allergic to any ingredient of vaccine, such as egg, egg protein etc.
  - b. serious adverse reactions to vaccines such as anaphylaxis, hives, respiratory difficulty, angioedema, or abdominal pain
  - c. autoimmune disease or immunodeficiency
  - d. asthma that is unstable or required emergency care, urgent care, hospitalisation or intubation during the past two years or that requires the use of oral or intravenous corticosteroids
  - e. diabetes mellitus (type I or II), with the exception of gestational diabetes
  - f. history of thyroidectomy or thyroid disease that required medication within the past 12 months
  - g. serious angioedema episodes within the previous three years or requiring medication in the previous two years
  - h. bleeding disorder diagnosed by a doctor (e.g. factor deficiency, coagulopathy, or platelet disorder requiring special precautions) or significant bruising or bleeding difficulties with Intramuscular (IM) injections or blood draws
  - i. malignancy that is active or treated malignancy for which there is not reasonable assurance of sustained cure or malignancy that is likely to recur during the period of study
  - j. seizure disorder other than febrile seizures under the age of two, seizures secondary to alcohol withdrawal more than three years ago, or a singular seizure not requiring treatment within the last three years
  - k. asplenia, functional asplenia or any condition resulting in the absence or removal of the spleen
  - l. Guillain-Barre Syndrome (GBS)
4. The abnormal result of laboratory tests as below:
  - a. biochemistry assaying: Alanine Aminotransferase (ALT)/Serum Glutamate Pyruvate Transaminase, Total Bilirubine (TBIL), Direct Bilirubine (DBIL), Blood Urea Nitrogen (BUN) and Creatinine (Cr)
  - b. Routine blood assaying, routine urine assaying
  - c. Hepatitis B surface Antigen (HBsAg) positive
  - d. pregnancy test positive
5. Subject has received any of the following substances:
  - a. immunosuppressive medications or cytotoxic medications or inhaled corticosteroids within the past six months (with the exception of corticosteroid nasal spray for allergic rhinitis or topical corticosteroids for an acute uncomplicated dermatitis)
  - b. blood products within three months prior to initial study vaccine administration
  - c. other study drug within 30 days prior to initial study vaccine administration
  - d. live attenuated vaccines within 30 days prior to initial study vaccine administration
  - e. medically indicated subunit or killed vaccines, e.g. pneumococcal, or allergy treatment with

antigen injections, within 14 days of study vaccine administration

f. current anti-tuberculosis prophylaxis or therapy

6. Fever before vaccination, axillary temperature 37.0°C

7. Psychiatric condition that precludes compliance with the protocol, past or present psychoses, past or present bipolar disorder requiring therapy that has not been well controlled on medication for the past two years, disorder requiring lithium, or suicidal ideation occurring within five years prior to enrolment

8. Any medical, psychiatric, social condition, occupational reason or other responsibility that, in the judgment of the investigator, is a contraindication to protocol participation or impairs a volunteer's ability to give informed consent

**Date of first enrolment**

20/12/2005

**Date of final enrolment**

05/06/2006

## **Locations**

**Countries of recruitment**

China

**Study participating centre**

**Department of Respiratory Internal**

Beijing

China

100029

## **Sponsor information**

**Organisation**

Sinovac Biotech Co. Ltd (China)

**ROR**

<https://ror.org/057f25d66>

## **Funder(s)**

**Funder type**

Government

**Funder Name**

The study was funded by a grant (2005BA723B02) from Ministry of Science and Technology of the People's Republic of China.

## Results and Publications

### Individual participant data (IPD) sharing plan

#### IPD sharing plan summary

Not provided at time of registration

#### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>	results	16/09/2006	03/05/2019	Yes	No