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Treatment of Chemotherapy Refractory Human Epidermalgrowth Factor Receptor-2(HER-2) Positive Advanced Solid Tumors (CART-HER-2)

This study is currently recruiting participants.

See [▶ Contacts and Locations](#)

Verified January 2016 by Han weidong, Chinese PLA General Hospital

Sponsor:

Chinese PLA General Hospital

Information provided by (Responsible Party):

Han weidong, Chinese PLA General Hospital

ClinicalTrials.gov Identifier:

NCT01935843

First received: September 1, 2013

Last updated: January 26, 2016

Last verified: January 2016

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Purpose

RATINALE: Placing a tumor antigen chimeric receptor that has been created in the laboratory into patient autologous T cells may make the body build immune response to kill cancer cells.

PURPOSE: This clinical trial is to study genetically engineered lymphocyte therapy in treating patients with HER-2 positive advanced solid tumors,such as breast cancer, gastric cancer, hepatic carcinoma, endometrial cancer and ovary cancer.

Condition

Intervention

Phase

Advanced HER-2 Positive Solid Tumors Chemotherapy Refractory HER-2 Antibody Inhibitor Therapy Refractory	Biological: CART-HER-2	Phase 1 Phase 2
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Study Type: Interventional
Study Design: Intervention Model: Single Group Assignment
Masking: None (Open Label)
Primary Purpose: Treatment

Official Title: Clinical Study of Chimeric HER-2 Antigen Receptor-modified T Cells in Chemotherapy Refractory HER-2 Advanced Solid Tumors

Further study details as provided by Han weidong, Chinese PLA General Hospital:

Primary Outcome Measures:

- Occurrence of Study related adverse events [Time Frame: Until week 24]

Secondary Outcome Measures:

- Anti-leukemia response to CART-HER-2 cell infusions [Time Frame: up to 24 weeks]

Other Outcome Measures:

- In vivo existence of CART-HER-2 [Time Frame: 1 year]

Estimated Enrollment: 10
Study Start Date: September 2013
Estimated Study Completion Date: September 2017
Estimated Primary Completion Date: September 2016 (Final data collection date for primary outcome measure)

<u>Arms</u>	<u>Assigned Interventions</u>
Experimental: Anti-tumor responses of CART-HER-2	Biological: CART-HER-2

Detailed Description:

PRIMARY OBJECTIVES:

I.Determine the safety and feasibility of the chimeric antigen receptor T cells transduced with anti-HER-2 vector(referred to as CART-HER-2 cells).

II.Determine duration of in vivo survival of CART-HER-2 cells. RT-PCR(reverse transcription polymerase chain reaction)analysis of whole blood will be used to detect and quantify survival of CART-HER-2 TCR zeta:CD137 and TCR(T-cell receptor) zeta cells over time.

SECONDARY OBJECTIVES:

I.For patients with detectable diseases, measure anti-tumor response due to CART-HER-2 cell infusions.

II.Estimate relative trafficking of CART-HER-2 cells in tumor bed.

III.Determine if cellular or humoral host immunity develops against the murine anti-HER-2, and assess correlation with loss of detectable CART-HER-2(loss of engraftment).

IV.Determine the relative subsets of CART-HER-2 T cells (Tcm,Tem,and Treg).

OUTLINE: Patients are assigned to 1 group according to order of enrollment. Patients receive anti-HER-2-CAR (coupled with CD137 and CD3 zeta signalling domains)vector-transduced autologous T cells on days 0,1, and 2 in the absence of unacceptable toxicity.

After completion of study treatment, patients are followed intensively for 6 months, every 3 months for 2 years, and annually thereafter for 13 years.

Estimate relative trafficking of CART-HER-2 cells in peripheral blood.

 Eligibility

Ages Eligible for Study: 18 Years to 80 Years (Adult, Senior)
Sexes Eligible for Study: All
Accepts Healthy Volunteers: No

Criteria

Inclusion Criteria:

- Chemotherapy refractory HER-2-positive breast cancer, gastric cancer, non-small cell lung cancer, and chemotherapy resistant or relapsed ovary cancer.
- Relapsed patients after anti-HER-2 using antibody or kinase inhibitor therapy.
- Patients must be 18 years of age or older.
- Patients must have an ECOG (Eastern Cooperative Oncology Group)performance status of 0-2.
- Patients must have evidence of adequate bone marrow reserve, hepatic and renal function as evidenced by the following laboratory parameters:

Absolute neutrophil count greater than 1500/mm³. Platelet count greater than 100,000/mm³. Hemoglobin greater than 10g/dl (patients may receive transfusions to meet this parameter).

Total bilirubin < 1.5 times upper limits of normal. Serum creatinine less than or equal to 1.6 mg/ml or the creatinine clearance must be greater than 70 ml/min/1.73m².

- Seronegative for HIV antibody.
- Seronegative for active hepatitis B, and seronegative for hepatitis C antibody.
- Patients must be willing to practice birth control during and for four months following treatment. NOTE: women of child-bearing age must have evidence of negative pregnancy test.
- Patients must be willing to sign an informed consent.

Exclusion Criteria:

- Patients with life expectancy less than 12 months will be excluded.
- Patients with uncontrolled hypertension (> 160/95), unstable coronary disease evidenced by uncontrolled arrhythmias, unstable angina, decompensated congestive heart failure (> New York Heart Association Class II), or myocardial infarction within 6 months of study will be excluded.
- Patients with any of the following pulmonary function abnormalities will be excluded: FEV₁(forced expiratory volume), < 30% predicted; DLCO (diffusing capacity of lung for carbon monoxide) < 30% predicted (post-bronchodilator); Oxygen Saturation less than 90% on room air.
- Patients with severe liver and kidney dysfunction or consciousness disorders will be excluded.
- Pregnant and/or lactating women will be excluded.
- Patients with active infections, including HIV, will be excluded, due to unknown effects of the vaccine on lymphoid precursors.
- Patients with any type of primary immunodeficiencies will be excluded from the study.
- Patients requiring corticosteroids (other than inhaled) will be excluded.
- Patients with history of T cell tumors will be excluded.
- Patients who are participating or participated any other clinical trials in latest 30 days will be excluded.

Contacts and Locations

Choosing to participate in a study is an important personal decision. Talk with your doctor and family members or friends about deciding to join a study. To learn more about this study, you or your doctor may contact the study research staff using the Contacts provided below. For general information, see [Learn About Clinical Studies](#).

Please refer to this study by its ClinicalTrials.gov identifier: NCT01935843

Contacts

Contact: Weidong Han, Dr. +86-10-13651392893 hanwdrsw@sina.com
Contact: Xiru Li, Dr. +86-10-13910594988 Huyi0401@yahoo.com.cn

Locations

China, Beijing

Chinese PLA General Hospital
Beijing, Beijing, China, 100853
Contact: Weidong Han, Dr. +86-10-13811421950 hanwdrsw@sina.com
Principal Investigator: Yao Wang, Dr.

Recruiting

Principal Investigator: Tao Wang, Dr.

Sponsors and Collaborators

Chinese PLA General Hospital

Investigators

Study Chair: Weidong Han, Dr. Chinese PLA General Hospital



More Information

Responsible Party: Han weidong, Professor and Director, Chinese PLA General Hospital
ClinicalTrials.gov Identifier: [NCT01935843](#) [History of Changes](#)
Other Study ID Numbers: CHN-PLAGH-BT-009
Study First Received: September 1, 2013
Last Updated: January 26, 2016

Keywords provided by Han weidong, Chinese PLA General Hospital:

CART-HER-2

HER-2 positive

Advanced

Refractory

Solid tumors

ClinicalTrials.gov processed this record on September 01, 2017

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