

Clinical trial of an anti-tumoural vaccination for patients suffering from stage III/IV malignant melanoma

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|--------------------------|-----------------------------|--|
| Submission date | Recruitment status | <input type="checkbox"/> Prospectively registered |
| 17/07/2008 | No longer recruiting | <input type="checkbox"/> Protocol |
| Registration date | Overall study status | <input type="checkbox"/> Statistical analysis plan |
| 16/01/2009 | Completed | <input type="checkbox"/> Results |
| Last Edited | Condition category | <input type="checkbox"/> Individual participant data |
| 16/01/2009 | Cancer | <input type="checkbox"/> Record updated in last year |

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

Prof Dirk Jaeger

Contact details

Medical Oncology

National Center for Tumor Diseases

Im Neuemheimer Feld 350

Heidelberg

Germany

69120

Additional identifiers

Protocol serial number

NCT-2007-11-02-1002

Study information

Scientific Title

Phase I trial of RAB38/NY-MEL-1(50-58) peptide combined with Montanide® ISA-51 in HLA-A*0201 patients with stage III/IV malignant melanoma

Acronym

RAB38

Study objectives

In contrast to other solid tumours, immunology plays a major role in malignant melanoma. RAB38 /NY-MEL-1 is a tumour antigen, which is exclusively expressed in melanocytes. Furthermore, antibodies against this polypeptide have exclusively been identified in the sera of patients with malignant melanoma. Therefore, the RAB38/NY-MEL-1 protein is an interesting target for immunisation strategies in these patients. Patients can be included in this study after failure or intolerance of standard chemotherapy. For these patients, other salvage treatments are not yet established and no therapy has been proven to be superior to best supportive care alone. The RAB38/NY-MEL-1 polypeptide has not been used in vaccination protocols before. Other tumour antigens (e.g. NY-ESO 1) have been studied in similar studies, where single patients responded to the vaccination and achieved regression of the tumour manifestations. The tolerability of the vaccination protocols described before was good and severe toxic side effects did not occur in most studies. Within this study, 9 patients with advanced malignant melanoma will be vaccinated with the RAB38/NY-MEL-1(50-58) peptide mixed with Montanide® ISA-51 as an adjuvant.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Local medical ethics committee (Ethikkommission der Medizinischen Fakultät Heidelberg) gave approval on the 27th March 2008 (ref: AFmo-278/2007)

Study design

Open-label, single arm, phase I study

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Malignant melanoma stage III/IV

Interventions

Patients will receive RAB38/NY-MEL-1 peptide 400 µg mixed with 0.5 mL of Montanide® ISA-51 by intradermal injections, every 3 weeks (weeks 1, 4, 7, 10, 13 and 16) for six doses. Patients without disease progression in the absence of dose-limiting toxicity will receive continued treatment starting 3 weeks after the last injection. Treatment courses will be continued until tumour progression. No dose adjustments during the study are planned.

Intervention Type

Drug

Phase

Phase I

Drug/device/biological/vaccine name(s)

RAB38/NY-MEL-1(50-58) peptide, Montanide® ISA-51

Primary outcome(s)

1. Toxicities and adverse events (AE) defined by National Cancer Institute Common Terminology Criteria for Adverse Events (NCI CTCAE)
2. RAB38/NY-MEL-1 specific cellular and humoral immune responses (CD8 T cell responses, serum antibody responses)

Measured at baseline, week 1, 4, 7, 10, 13, 16 and 19.

Key secondary outcome(s)

Tumour response will be assessed according to the Response Evaluation Criteria in Solid Tumors (RECIST), measured at week 19.

Completion date

30/06/2009

Eligibility

Key inclusion criteria

1. Histologically confirmed metastatic, measurable malignant melanoma stage III/IV who have declined, failed or completed standard therapy
2. Tumour expression of RAB38/NY-MEL-1 by reverse transcriptase-polymerase chain reaction (RT-PCR) analysis
3. HLA-A2 positive
4. Expected survival of at least six months
5. Karnofsky performance scale greater than or equal to 60%
6. Full recovery from surgery
7. Within the last 2 weeks prior to study day 1 the following laboratory parameters, which should be within the ranges specified:
 - 7.1. Absolute neutrophil count (ANC) greater than or equal to 1000/mm³
 - 7.2. Platelets greater than or equal to 80.000/mm³
 - 7.3. Creatinine less than or equal to 1.5 mg/L
 - 7.4. Alanine aminotransferase (ALT), aspartate aminotransferase (AST) and total bilirubin all less than 2.5 x upper limit of normal (ULN)
8. Age greater than or equal to 18 years
9. Able and willing to give valid written informed consent
10. Both genders will be included

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

1. Clinically significant heart disease (New York Heart Association [NYHA] class III or IV)
2. Other serious illnesses, e.g., serious infections requiring antibiotics or bleeding disorders
3. Patients with serious intercurrent illness, requiring hospitalisation
4. Patients taking immunosuppressive drugs such as systemic corticosteroids. Topical or inhalational steroids are permitted.
5. Known human immunodeficiency virus (HIV) positivity
6. Other active malignancy within 1 year prior to entry into the study, except for treated non-melanoma skin cancer and cervical carcinoma in situ
7. Mental impairment that may compromise the ability to give informed consent and comply with the requirements of the study
8. Lack of availability for immunological and clinical follow-up assessments
9. Participation in chemotherapy, radiation therapy, or any other clinical trial involving another investigational agent within 4 weeks prior to enrolment
10. Pregnancy or breastfeeding
11. Women of childbearing potential: refusal or inability to use effective means of contraception
12. History of severe allergic reactions to vaccines or unknown allergens

Date of first enrolment

01/07/2008

Date of final enrolment

30/06/2009

Locations

Countries of recruitment

Germany

Study participating centre

Medical Oncology

Heidelberg

Germany

69120

Sponsor information

Organisation

University Hospital Heidelberg (Universitätsklinikum Heidelberg) (Germany)

ROR

<https://ror.org/013czdx64>

Funder(s)

Funder type

Research organisation

Funder Name

National Center for Tumor Diseases (Germany)

Funder Name

Ludwig Institute for Cancer Research (LICR) (USA)

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? |
|---|-------------------------------|--------------|------------|----------------|-----------------|
| Participant information sheet | Participant information sheet | 11/11/2025 | 11/11/2025 | No | Yes |