# STEM PACE - Stem cell Transplantation for Eradication of Minimal PAncreatic cancer persisting after surgical Excision

Submission date	Recruitment status	<ul><li>Prospectively registered</li></ul>
25/03/2013	No longer recruiting	[X] Protocol
Registration date	Overall study status	Statistical analysis plan
09/05/2013	Completed	[X] Results
Last Edited	Condition category	Individual participant data
28/05/2020	Cancer	

### Plain English summary of protocol

Background and study aims

Pancreatic cancer is the third most common cancer related cause of death. Even in the 15% of patients who are eligible for surgical resection, less than 10% of patients surviving after 5 years. Allogeneic hematopoietic stem cell transplantation (allo-HSCT) is an established treatment capable of curing a variety of hematopoietic malignancies, taking advantage of the graft-versustumor effect (GVT). It works best when the underlying neoplasm has been turned into a stage of minimal disease by chemotherapy. There have been attempts of applying allo-HSCT to advanced solid tumors including pancreatic cancer with limited success but studies of allo-HSCT in solid tumors in minimal disease situations have never been performed. The aim of this study is to provide evidence for the clinical value of allo-HSCT in pancreatic cancer put into a minimal disease status by effective surgical resection and standard adjuvant chemotherapy. We want to find out if allo-HSCT can change the unfavourable natural course of this disease and whether allo-HSCT is able to provide long-term disease control to an extent otherwise not possible in pancreatic cancer and improve survival of affected patients.

### Who can participate?

Patients with histologically proven diagnosis of pancreatic ductal adenocarcinoma having undergone radical resection (R1/R0 local resection) within the last 4-6 months at the University Hospital Heidelberg, who are matching the inclusion criteria.

### What does the study involve?

Patients will undergo conditioning for allo-HSCT (fludarabine 30mg/mE2/d d -6 through d -2, cyclophosphamide 60mg/kg/d d-3 and d -2) followed by transplantation of allogeneic unmanipulated peripheral blood stem cells on d 0. Standard GVHD prophylaxis with CSA (target level 150-200; start d -1, taper d +60 onwards in the absence of GVHD) and MMF (2x1g; start d 0, stop d +30 in the absence of acute GVHD) will be instituted.

What are the possible benefits and risks of participating? Not provided at time of registration Where is the study run from? Clinic of General Surgery, Heidelberg (Germany)

When is the study starting and how long is it expected to run for? From May 2012 to June 2016

Who is funding the study? Heidelberg Surgery Foundation, University of Heidelberg (Germany)

Who is the main contact? Klinisches Studienzentrum der Chirurgie (KSC) ksc@med.uni-heidelberg.de

# **Contact information**

### Type(s)

Scientific

### Contact name

Dr Friedrich Hubertus Schmitz-Winnenthal

#### Contact details

University of Heidelberg Clinic of General Surgery Im Neuenheimer Feld 110 Heidelberg Germany 69120

## Additional identifiers

EudraCT/CTIS number 2012-003528-19

**IRAS** number

ClinicalTrials.gov number

Secondary identifying numbers 130311StemPace

# Study information

### Scientific Title

A phase-I/II study on the value of adjuvant allogeneic hematopoietic stem cell transplantation in pancreatic cancer after surgical resection

### Acronym

**STEM PACE** 

### **Study objectives**

The principal question addressed is whether allo-HSCT can change the unfavourable natural course of pancreatic cancer.

### Ethics approval required

Old ethics approval format

### Ethics approval(s)

Approved by the independent Medical Ethics Committee of the University of Heidelberg (EC) and the Paul-Ehrlich-Institute (PEI), as competent authority, 22/03/2013

### Study design

Single-arm single-centre open phase-I/II trial using historical controls

### Primary study design

Interventional

### Secondary study design

Non randomised controlled trial

### Study setting(s)

Hospital

### Study type(s)

Treatment

### Participant information sheet

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

Pancreatic cancer resected in curative intention (Adjuvant setting)

### **Interventions**

Eligible patients will be screened immediately after successful surgical resection, have a donor search initiated, and subjected to standard adjuvant chemotherapy.

Only those patients who underwent adjuvant chemotherapy without disease progression and who have a matched related stem cell donor available will be registered for the trial. Patients without a matched related donor will not be registered for the trial but may be used a historical control outside of the protocol.

Patients will undergo conditioning for allo-HSCT (fludarabine 30mg/mE2/d d -6 through d -2, cyclophosphamide 60mg/kg/d d-3 and d -2) followed by transplantation of allogeneic unmanipulated peripheral blood stem cells on d 0. Standard graft-versus-host disease (GVHD) prophylaxis with cyclosporine (CSA) (target level 150-200; start d -1, taper d +60 onwards in the absence of GVHD) and mycophenolate mofetil (MMF) (2x1g; start d 0, stop d +30 in the absence of acute GVHD) will be instituted.

### Intervention Type

Drug

#### Phase

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

allogeneic hematopoietic stem cell

### Primary outcome measure

2-year progression-free survival (PFS) from registration.

### Secondary outcome measures

- 1. 2-year PFS and overall survival (OS) after surgical resection
- 2. 2-year overall survival (OS) from registration
- 3. Minimal residual disease kinetics at screening day, registration day, 1, 3, 6, 12, 18 and 24 months according to study protocol (MRD; measured by tumor serum marker levels) and their correlation with immune events
- 4. Impact of important explanatory variables on PFS and OS.

### Secondary feasibility endpoints

- 1. Non-relapse mortality (NRM) at 3 and 24 months after allo-HSCT
- 2. Prevalence of chronic graft-versus-host-disease at 6, 12 and 24 months from allo-HSCT
- 3. Quality of life at day -28, day +28, day +100, day +180, day +360, day +720 before/after allo-HSCT
- 4. Impact of important explanatory variables on NRM

### Overall study start date

01/05/2013

### Completion date

01/06/2016

# Eligibility

### Key inclusion criteria

- 1. Histologically proven diagnosis of pancreatic ductal adenocarcinoma having undergone radical resection (R1/R0 local resection) within the last 4-6 months at the University Hospital Heidelberg
- 2. Hartwig score 1 or 2 (Millenium paper)
- 3. Measurable tumor serum marker (i.e. CA 19-9) prior to resection
- 4. Age at registration 18 to 65 years, either sex
- 5. Karnofsky index > /=70
- 6. Hematopoietic cell transplantation comorbidity index (HCT-CI) score 0-1 (pancreatic carcinoma does not count against the score)
- 7. HLA-identical (10/10 intermediate-resolution) related donor
- 8. Written informed consent, signed and dated

### Participant type(s)

Patient

### Age group

Adult

### Lower age limit

18 Years

#### Sex

**Not Specified** 

### Target number of participants

12

### Total final enrolment

0

### Key exclusion criteria

- 1. Hartwig score ≤ 0 (Millenium paper)
- 2. HIV, HBV, HCV seropositivity
- 3. Organ dysfunction
- 4. Symptomatic coronary artery disease or ejection fraction <35%
- 5. DLCO ≤60%, FEV1 <65% of predicted FEV1 despite appropriate treatment or receiving supplementary continuous oxygen
- 6. Liver function abnormalities: Patients with will be excluded if total serum bilirubin >1.5 X ULN, or AST/ALT >2.5XULN
- 7. Chronic renal dysfunction defined by a creatinine clearance <50 ml/min.
- 8. Fertile men and women unwilling to use contraceptive techniques during and for 12 months following treatment
- 9. Females who are pregnant or breastfeeding
- 10. Active other malignancies and/or a history of another malignancy treated by chemotherapy or radiotherapy within the last five years prior to inclusion
- 11. Patients with systemic, uncontrolled infections
- 12. Current alcohol or drug abuse
- 13. Inability to understand the scope of the study and intent of treatment. Dementia or altered mental status that would prohibit understanding informed consent
- 14. Participation in another interventional clinical trial according to the Arzneimittelgesetz within 30 days prior to inclusion

### Date of first enrolment

01/05/2013

### Date of final enrolment

01/06/2016

## Locations

### Countries of recruitment

Germany

# Study participating centre University of Heidelberg

Heidelberg Germany 69120

# Sponsor information

### Organisation

Ruprecht-Karls-University Heidelberg (Germany)

### Sponsor details

Medical Faculty c/o Ms. Irmtraut Gürkan Heidelberg Germany 69120

### Sponsor type

University/education

### **ROR**

https://ror.org/038t36y30

# Funder(s)

### Funder type

University/education

### **Funder Name**

Heidelberg Surgery Foundation, University of Heidelberg (Germany)

# **Results and Publications**

### Publication and dissemination plan

Not provided at time of registration

Intention to publish date

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?

Protocol articleprotocol10/03/2014YesNoBasic results28/05/2020NoNo