

Trial Description

Title

Randomized multi-centre open-label non-inferiority phase 3 clinical trial for patients with a stage IV childhood renal tumour comparing upfront Vincristine, Actinomycin-D and Doxorubicin (VAD, standard arm) with upfront Vincristine, Carboplatin and Etoposide (VCE, experimental arm)

Trial Acronym

Randomet2017

URL of the trial

[---]*

Brief Summary in Lay Language

The Randomet2017 study will be conducted in children and adolescents aged 3 months to 18 years who have a kidney tumor with metastasis(s). In this study, two different combinations of chemotherapeutic agents will be compared. The chemotherapy include either the drugs vincristine, actinomycin D and doxorubicin (VAD) or vincristine, carboplatin and etoposide (VCE).

The aim is to find out which of the two therapies is better in terms of effectiveness (probability of cure/ability to make the metastases disappear) and harmfulness (short and long-term side effects).

The entire study treatment includes 6 weeks of preoperative chemotherapy. Which therapy (VAD or VCE) is given is decided randomly, like a coin toss.

Brief Summary in Scientific Language

Randomized multi-centre open-label non-inferiority phase 3 clinical trial for patients with a stage IV childhood renal tumour comparing upfront Vincristine, Actinomycin-D and Doxorubicin (VAD, standard arm) with upfront Vincristine, Carboplatin and Etoposide (VCE, experimental arm).

Additionally, importance of absolute blastemal volume and the gain of 1q for the prognosis of metastasized nephroblastoma will be investigated.

Do you plan to share individual participant data with other researchers?

Yes

Description IPD sharing plan

Within the framework of integrated research projects, the data will be made available to other researchers in anonymised form, insofar as this is covered by the data transfer agreement.

Organizational Data

- DRKS-ID: **DRKS00021160**
- Date of Registration in DRKS: **2020/05/26**
- Date of Registration in Partner Registry or other Primary Registry: [---]*
- Investigator Sponsored/Initiated Trial (IST/IIT): **yes**
- Ethics Approval/Approval of the Ethics Committee: **Approved**
- (leading) Ethics Committee Nr.: **169/19** , **Ethik-Kommission bei der Ärztekammer des Saarlandes**

Secondary IDs

- EudraCT-No.
(for studies acc. to Drug Law): **2018-000533-13**

Health condition or Problem studied

- Free text: **Metastatic childhood renal tumour**
- ICD10: **C64 - Malignant neoplasm of kidney, except renal pelvis**

Interventions/Observational Groups

- Arm 1: **Preoperative chemotherapy with vincristine, actinomycin D and doxorubicin.**
 - **Actinomycin D, 1 x 45 µg/kg IV day 1 in week 1, 3, 5**
 - **Vincristine, 1 x 1,5 mg/m² IV day 1 in week 1, 2, 3, 4, 5, 6**
 - **Doxorubicin, 1 x 50 mg/m² 6h IV-Infusion day 1 in week 1, 5****Total duration: 6 weeks**
- Arm 2: **Preoperative chemotherapy with vincristine, carboplatin and etoposide.**
 - **Vincristine, 1 x 1,5 mg/m² IV day 1 in week 1, 2, 3, 4, 5, 6**
 - **Carboplatin, 3 x 200 mg/m² 1h Infusion day 1,2,3 in week 1, 4**
 - **Etoposide, 3 x 100 mg/m² 1h Infusion day 1,2,3 in week 1, 4****Total duration: 6 weeks**

Characteristics

- Study Type: **Interventional**
- Study Type Non-Interventional: [---]*
- Allocation: **Randomized controlled trial**
- Blinding: [---]*
- Who is blinded: [---]*
- Control: **Active control (effective treatment of control group)**

Study Type: **Interventional**

Study Type Non-Interventional: [---]*

Allocation: **Randomized controlled trial**

Blinding: [---]*

Who is blinded: [---]*

Control: **Active control (effective treatment of control group)**

- Purpose: **Treatment**
- Assignment: **Parallel**
- Phase: **III**
- Off-label use (Zulassungsüberschreitende Anwendung eines Arzneimittels): **Yes**

Primary Outcome

Percentage of patients with radiologic complete response (CR) of any metastasis and/or Very Good Partial Response (VGPR) of lung metastasis of childhood renal tumours after 6 weeks of preoperative chemotherapy.

Secondary Outcome

Radiologic response to preoperative treatment:

- 1. Percentage of patients after 6 weeks of preoperative chemotherapy achieving a CR after surgery of metastasis at time of nephrectomy**
- 2. Percentage of patients with radiologic complete response (CR) of any metastasis or Very Good Partial Response (VGPR) of lung metastasis of nephroblastoma after 6 weeks of preoperative chemotherapy**
- 3. Percentage of patients with remaining metastatic disease after surgery that achieve a CR at week 9 of adjuvant chemotherapy**
- 4. Percentage of patients with complete response +/- VGPR of (pulmonary) metastasis of nephroblastoma after 6 weeks of preoperative chemotherapy + 9 weeks adjuvant chemotherapy.**
- 5. Percentage of patients with complete response +/- VGPR of (pulmonary) metastasis of nephroblastoma after preoperative chemotherapy + 9 weeks adjuvant chemotherapy + metastasectomy**
- 6. Percentage of patients with complete response +/- VGPR of (pulmonary) metastasis of nephroblastoma at the end of adjuvant chemotherapy ± metastasectomy ± RT**
- 7. Primary tumour volume shrinkage after 6 weeks of preoperative chemotherapy**
- 8. Primary tumour volume after 6 weeks of preoperative chemotherapy**
- 9. Number of metastases at diagnosis and after preoperative treatment**
- 10. Maximum diameters of the largest metastases at diagnosis and after preoperative treatment**

Treatment burden, complications, side effects and toxicity:

- 1. Percentage of patients requiring pulmonary radiotherapy in first line**
- 2. Percentage of patients suffering from SOS during preoperative treatment according to EBMT criteria**
- 3. Percentage of patients suffering any Grade 4 or grade 5 (CTCAE) toxicity during preoperative chemotherapy.**

4. Overall duration of preoperative treatment per arm as determined as interval D1 - date of nephrectomy

5. Delay in timing of nephrectomy: % of patients with more than 8 weeks since start of preoperative chemotherapy because of toxicity

6. Percentage of (peri-)operative complications (haemorrhage, rupture, thromboembolism)

Outcome:

1. Event-free survival at 2 and 5 years for the whole cohort and according to study arm (VAD/VCE) and according to 1qGain

2. Overall survival at 2 and 5 years for the whole cohort and according to study arm (VAD/VCE) and according to 1qGain

Countries of recruitment

- **BE Belgium**
- **BR Brazil**
- **DK Denmark**
- **DE Germany**
- **FR France**
- **GR Greece**
- **UK United Kingdom**
- **IE Ireland**
- **IT Italy**
- **NL Netherlands**
- **NO Norway**
- **AT Austria**
- **PL Poland**
- **PT Portugal**
- **SE Sweden**
- **CH Switzerland**
- **ES Spain**
- **CZ Czech Republic**
- **HU Hungary**
- **VA Holy See (Vatican City State)**

Locations of Recruitment

- University Medical Center **Homburg**
- University Medical Center **Aachen**
- University Medical Center **Augsburg**
- University Medical Center **Klinikum der LMU Dr. von Haunersches Kinderspital, München**
- University Medical Center **Berlin**
- Medical Center **Helios Berlin Buch GmbH, Berlin**
- Medical Center **Evangelisches Klinikum Bethel, Bielefeld**
- Medical Center **Klinikum Dortmund gGmbH, Dortmund**
- University Medical Center **Münster**
- University Medical Center **Bonn**
- Medical Center **Städtisches Klinikum Braunschweig gGmbH, Braunschweig**
- Medical Center **Klinikum Oldenburg AöR, Oldenburg**
- Medical Center **Gesundheit Nord Klinikum Bremen Mitte, Bremen**
- University Medical Center **Dresden**
- University Medical Center **Düsseldorf**
- Medical Center **Helios Klinikum Erfurt GmbH, Erfurt**
- University Medical Center **Erlangen**
- University Medical Center **Essen**
- University Medical Center **Frankfurt a.M.**
- University Medical Center **Freiburg im Breisgau**
- University Medical Center **Universitätsklinikum Gießen und Marburg GmbH Standort Gießen, Giessen**
- University Medical Center **Göttingen**
- University Medical Center **Greifswald**
- University Medical Center **Halle Saale**
- University Medical Center **Hamburg**
- University Medical Center **Hannover**
- University Medical Center **Heidelberg**
- University Medical Center **Jena**
- Medical Center **Klinikum Heilbronn GmbH Klinikum am Gesundbrunnen, Heilbronn**
- Medical Center **Franz Lust Klinik für Kinder - und Jugendmedizin am städtischen Klinikum, Karlsruhe**
- Medical Center **Klinikum Stuttgart - Olgahospital, Stuttgart**

-
- Medical Center **Gesundheit Nordhessen; Klinikum Kassel GmbH, Kassel**
 - University Medical Center **Universitätsklinikum Schleswig-Holstein, Campus Kiel, Kiel**
 - University Medical Center **Mainz**
 - University Medical Center **Köln**
 - Medical Center **Kliniken der Stadt Köln gGmbH Kinderkrankenhaus, Köln**
 - Medical Center **Asklepios Klinik St. Augustin, Sankt Augustin**
 - University Medical Center **Leipzig**
 - University Medical Center **Universitätsklinikum Schleswig-Holstein Campus Lübeck, Lübeck**
 - University Medical Center **Mannheim**
 - University Medical Center **Klinikum München Schwabing Kinderklinik der techn. Universität München, München**
 - Medical Center **Diakonie Neuendettelsau KdÖR Klinik Hallerwiese/ Cnopfsche Kinderklinik, Nürnberg**
 - University Medical Center **Regensburg**
 - University Medical Center **Rostock**
 - University Medical Center **Tübingen**
 - University Medical Center **Ulm**
 - University Medical Center **Würzburg**

Recruitment

- Planned/Actual: **Planned**
- (Anticipated or Actual) Date of First Enrollment: **2021/11/30**
- Target Sample Size: **406**
- Monocenter/Multicenter trial: **Multicenter trial**
- National/International: **International**

Inclusion Criteria

- Gender: **Both, male and female**
- Minimum Age: **3 Months**
- Maximum Age: **18 Years**

Additional Inclusion Criteria

- **Children <18 years at date of diagnosis and >3months**
- **Patients suffering from metastatic renal tumour at initial diagnosis, having at least one circumscribed, non-calcified (pulmonary) nodule (or other lesion highly suspicious of metastasis according to criteria for metastatic disease) ≥ 3 mm as determined by chest CT-scan and abdominal CT-scan/MRI.**
- **Metastatic childhood renal tumour must be confirmed by central review.**
- **Signed informed consent form(s) prior to study entry according to national guidelines and GCP guidelines**
- **Voluntarily provide permission (subjects and when applicable, parental/legal representative(s)) to the ICF prior to conducting any study related assessments/procedures**
- **Able to adhere to the study visit schedule and other protocol requirements**
- **No pre-existing and ongoing cardiac malfunction disease (insufficiency, malign arrhythmias)**
- **No pre-existing and ongoing liver function deficiency that is not controllable by substitution**

Exclusion criteria

- **Patient and/or parental/legal representative(s) denied study participation and randomization**
- **inability to be followed until two years after treatment**
- **primary nephrectomy**
- **histology other than nephroblastoma**
- **other chemotherapy prior to enrolment**
- **pregnancy or lactation**
- **Fertile female with child bearing potential and fertile male subjects who refuse using highly effective contraceptive measures**
- **Treated by any investigational agent in a clinical study within previous 4 weeks**
- **Hypersensitivity to the active substances or other excipients contained in the investigational medical products listed in the summary of product characteristics (SmPC) or Investigators Brochure (IB).**
- **any other medical condition incompatible with the protocol treatment**
- **unwillingness to follow adequate supportive measures including transfusion of**

blood products if medically needed

- **inability to receive chemotherapy according to the protocol, this is particularly true for:**

a. acute kidney failure needing dialysis treatment

b. pre-existing peripheral neuropathy

- **Active, uncontrolled life threatening Infection (e.g. Acute Hepatitis, Pneumonia, AIDS, Varizella)**

- **known chromosomal instability/susceptibility (e.g. Fanconi Anemia, Nijmegen Breakage Syndrome)**

- **participation in other interventional trials (registration in observational non-interventional studies is acceptable)**

- **age at start of treatment <3 months or >18 years**

Addresses

■ Primary Sponsor

GPOH gGmbH
Mr. Prof. Dr. Dirk Reinhardt
Chausseestraße 128/129
10115 Berlin
Germany

Telephone: **0201 723 3784**

Fax: **0201 723 5386**

E-mail: **dirk.reinhardt at uk-essen.de**

URL: [---]*

■ Contact for Scientific Queries

Universitätsklinikum des Saarlandes Klinik für Pädiatrische Onkologie und Hämatologie
Mr. Prof. Dr. Rhoikos Furtwängler
Universitätsklinikum Gebäude 9
66421 Homburg
Germany

Telephone: **06841 1628399**

Fax: **06841 1628424**

E-mail: **rhoikos.furtwaengler at uks.eu**

URL: **<https://www.uks.eu/de/>**

■ Contact for Public Queries

Universitätsklinikum des Saarlandes Klinik für Pädiatrische Onkologie und Hämatologie
Dr. Yvonne Braun
Universitätsklinikum Gebäude 9
66421 Homburg
Germany

Telephone: **06841 1628088**

Fax: **06841 1628435**

E-mail: **yvonne.braun at uks.eu**

URL: **<https://www.uks.eu/de/>**

■ **Primary Sponsor**

**Zentrum für Forschungsförderung in der Pädiatrie GmbH Pädiatisches
Forschungsnetzwerk gGmbH
Ms. Dr. Katharina Jansen
Holsterhauser Platz 2
45147 Essen
Germany**

Telephone: **0201 74 94 96 13**

Fax: **0201 8777 54 84**

E-mail: **k.jansen at forschung-paediatrie.de**

URL: [---]*

■ **Contact for Scientific Queries**

**Department of Pediatric Hematology and Oncology La Timone Children's
Hospital
Mr. Dr. Arnauld Verschuur
264, rue Saint Pierre
13364 Marseille Cedex 5
France**

Telephone: **+33.491388478**

Fax: **+33.491384989**

E-mail: **Arnauld.verschuur at ap-hm.fr**

URL: [---]*

■ **Collaborator, Other Address**

**Universitätsklinikum des Saarlandes Klinik für Pädiatrische Onkologie und
Hämatologie
Mr. Dr. Nils Welter
Universitätsklinikum Gebäude 9
66421 Homburg
Germany**

Telephone: **06841 1628025**

Fax: **06841 1628024**

E-mail: **nils.welter at uks.eu**

URL: **<https://www.uks.eu/de/>**

Sources of Monetary or Material Support

- **Public funding institutions financed by tax money/Government funding body (German Research Foundation (DFG), Federal Ministry of Education and Research (BMBF), etc.)**

Deutsche Krebshilfe

Buschstrasse 32

53113 Bonn

Germany

Telephone: [---]*

Fax: [---]*

E-mail: [---]*

URL: [---]*

Status

- Recruitment Status: **Recruiting planned**
- Reason, if "Recruitment stopped after recruiting started" or "Recruiting withdrawn before recruiting started": [---]*
- Reason, if Reason for Recruiting Stop "Other": [---]*
- Study Closing (LPLV): [---]*
- Number of Participants in Germany after Recruiting complete: [---]*
- Total Number of Participants (all Sites worldwide) after Recruiting complete: [---]*

Trial Publications, Results and other documents

* This entry means the parameter is not applicable or has not been set.

*** This entry means that data is not displayed due to insufficient data privacy clearing.