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Trial record 1 of 3 for: 2Dauno

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Comparison Between Two Dose Levels of Daunorubicin and Between One vs. Two Induction Cycles for Adult Patients With AML (DaunoDouble)

This study is currently recruiting participants. (see Contacts and Locations)

Verified May 2014 by Technische Universität Dresden

Sponsor:

Technische Universität Dresden

Collaborator:

Universitäts KrebsCentrum an der TU Dresden

Information provided by (Responsible Party):

Technische Universität Dresden

Full Text View

Tabular View

No Study Results Posted

Disclaimer

How to Read a Study Record

ClinicalTrials.gov Identifier:

First received: May 9, 2014

Last updated: May 14, 2014

Last verified: May 2014 History of Changes

NCT02140242



The proposed trial will address two clinically important questions for younger patients with newly diagnosed acute myeloid leukemia (AML): the optimal dose of daunorubicin in induction therapy and the necessity of a second induction cycle in patients with a good response after the first induction. In the first part of the trial, patients will be randomly assigned to receive either 90 mg/m² or 60 mg/m² daunorubicin in the first induction cycle in addition to standard dosed cytarabine. The primary endpoint is the rate of good responders. Assuming a superiority of 90 mg/m², 436 patients will be recruited. In the second part of the trial, good responders will be randomized to receive either a second or no further induction cycle. Assuming a non-inferiority of the single induction regarding the rate of complete remissions, a number of 360 patients will be included in the second part. Secondary outcomes will be relapse-free survival, overall survival and minimal residual disease kinetics. Patients will be recruited in about 40 treatment centers of the Study Alliance Leukemia study group over a period of 40 months. The results will be of great clinical relevance: First, the study could facilitate the establishment or confirmation of the optimal daunorubicin dose. Furthermore, in case of a non-inferiority of single versus double induction in good responders, about half of all younger AML patients could be spared a second induction cycle, leading to a reduction in treatment-related mortality, few er days spent in hospital and improved quality of life.

Condition	Intervention	Phase
Leukemia, Myelocytic, Acute	Drug: study part 1 - dose daunorubicin Procedure: induction cycles	Phase 3

Study Type: Interventional

Study Design: Allocation: Randomized

Endpoint Classification: Efficacy Study Intervention Model: Factorial Assignment

Masking: Open Label Primary Purpose: Treatment

Official Title: Randomized Comparison Between Two Dose Levels of Daunorubicin and Between One Versus Two Cycles of Induction

Therapy for Adult Patients With Acute Myeloid Leukemia ≤60 Years

Resource links provided by NLM:

Genetics Home Reference related topics: core binding factor acute myeloid leukemia cytogenetically normal acute myeloid leukemia familial acute myeloid leukemia w ith mutated CEBPA

MedlinePlus related topics: Acute Myeloid Leukemia Leukemia

Drug Information available for: Daunorubicin Daunorubicin hydrochloride Daunorubicin citrate

Genetic and Rare Diseases Information Center resources: Acute Myelocytic Leukemia Acute Non Lymphoblastic Leukemia Leukemia, Myeloid

U.S. FDA Resources

Further study details as provided by Technische Universität Dresden:

Primary Outcome Measures:

• response rate after first induction [Time Frame: day 15] [Designated as safety issue: No]

To investigate w hether a higher dose of daunorubicin in induction chemotherapy leads to an increase in hematological good responders defined as having <5% myeloid blasts on day 15 after start of induction therapy.

Rate complete remissions [Time Frame: day 35 after final induction] [Designated as safety issue: No]

To investigate w hether the rate of complete remissions (CR) after single induction is similar to that after double induction in patients with good response to induction I.

Secondary Outcome Measures:

- rate cytogenetic and molecular complete remissions [Time Frame: day 35] [Designated as safety issue: No]
 To investigate w hether a higher dose of daunorubicin in induction chemotherapy will lead to an increase in cytogenetic and molecular complete remissions.
- event-free survival (EFS) [Time Frame: 5 years] [Designated as safety issue: No]
 To investigate w hether a higher dose of daunorubicin will lead to improved event-free survival (EFS), relapse-free survival (RFS) and overall survival (OS). To investigate w hether EFS, RFS and OS are similar after single versus double induction in patients with good
- response to induction I.

 relapse-free survival (RFS) [Time Frame: 5 years] [Designated as safety issue: No]
 - To investigate w hether a higher dose of daunorubicin will lead to improved event-free survival (EFS), relapse-free survival (RFS) and overall survival (OS). To investigate w hether EFS, RFS and OS are similar after single versus double induction in patients with good response to induction I.
- overall survival (OS) [Time Frame: 5 years] [Designated as safety issue: No]
 To investigate w hether a higher dose of daunorubicin will lead to improved event-free survival (EFS), relapse-free survival (RFS) and

overall survival (OS). To investigate whether EFS, RFS and OS are similar after single versus double induction in patients with good response to induction I.

- Correlation betw een Minimal Residual Disease (MRD) and EFS, RFS, OS [Time Frame: day 35] [Designated as safety issue: No]
 To correlate the level of cytogenetic and molecular minimal residual disease after induction treatment with survival outcomes EFS, RFS and OS.
- Rate of induction deaths [Time Frame: day 60] [Designated as safety issue: Yes]
 Rate of induction deaths (until day 60 or beginning of consolidation treatment w hichever occurs first)
- Incidence of serious infectious complications [Time Frame: day 35] [Designated as safety issue: Yes]
 Incidence of serious infectious complications Grades 3-4 (Common Toxicity Criteria for Adverse Effects (CTCAE) V4.0
- Sonographic cardiac left ventricular ejection fraction [Time Frame: day 35] [Designated as safety issue: Yes]
 Sonographic cardiac left ventricular ejection fraction
- Serum levels of pro-brain natriuretic peptide (por-BNP) and Troponin-T [Time Frame: day 35] [Designated as safety issue: Yes]
 Serum levels of pro-BNP and Trop-T
- Incidence of CTCAE grade ≥3 cardiac complications [Time Frame: day 35] [Designated as safety issue: Yes]
 Incidence of CTCAE grade ≥3 cardiac complications

Rate of early deaths [Time Frame: w eek 2] [Designated as safety issue: Yes]
 Rate of early deaths (2 w eeks)

Estimated Enrollment: 600
Study Start Date: April 2014
Estimated Study Completion Date: August 2018

Estimated Primary Completion Date: May 2018 (Final data collection date for primary outcome measure)

Arms	Assigned Interventions
Active Comparator: daunorubicin 60 mg/m² study part 1 - dose daunorubicin standard dose daunorubicin in induction 1 (60 mg/m²) on days 3-5	Drug: study part 1 - dose daunorubicin standard induction dose of daunorubicin 60 mg/m² on days 3-5 versus 90 mg/m²
Active Comparator: Double induction study part 2: induction cycles double induction (only patients with good response)	Procedure: induction cycles single induction cycles (only patients with good response after first induction) Allocation is randomized for cytogenetic risk.
Experimental: daunorubicin 90 mg/m² study part 1 - dose daunorubicin experimental dose daunorubicin in induction 1 (90 mg/m²) on days 3-5	Drug: study part 1 - dose daunorubicin standard induction dose of daunorubicin 60 mg/m² on days 3-5 versus 90 mg/m²
Experimental: Single induction study part 2: induction cycles single induction (only patients with good response)	Procedure: induction cycles single induction cycles (only patients with good response after first induction) Allocation is randomized for cytogenetic risk.

Eligibility

Ages Eligible for Study: 18 Years to 60 Years

Genders Eligible for Study: Both Accepts Healthy Volunteers: No

Criteria

Inclusion Criteria:

- New ly diagnosed AML other than acute promyelocytic leukemia (APL) according to WHO criteria, i.e. bone marrow aspirate or biopsy must contain ≥20% blasts of all nucleated cells or differential blood count must contain ≥20% blasts. In acute erythroid leukemia, ≥20% blasts in all non-erythroid bone marrow cells. In AML defined by cytogenetic aberrations, the rate of blasts may be <20%. Secondary AMLs are eligible for inclusion.</p>
- Age 18-60 years
- Eastern Cooperative Oncology Group (ECOG) performance status 0-2
- Adequate liver and renal function as assessed by the following laboratory requirements to be conducted within 7 days prior to screening:
 - o Total bilirubin ≤ 1.5 times the upper limit of normal
 - \circ alanine transaminase (ALT) and aspartate transaminase (AST) \leq 2.5 times upper limit of normal
 - o Creatinine ≤ 1.5 times upper limit of normalExclusion Criteria:
- Adequate cardiac function, i.e. left ventricular ejection fraction (LVEF) of ≥ 50% as assessed by transthoracic two-dimensional echocardiography ("M Mode") or multiple gated acquisition scan (MUGA scan)
- Signed informed consent
- Women must fulfill at least one of the following criteria in order to be eligible for trial inclusion:
 - Post-menopausal (12 months of natural amenorrhea or 6 months of amenorrhea with Serum follicle stimulating hormone (FSH) > 40
 U/ml)
 - o Postoperative (i.e. 6 w eeks) after bilateral ovariectomy with or without hysterectomy
 - Continuous and correct application of a contraception method with a Pearl Index of <1% (e.g. implants, depots, oral contraceptives, intrauterine device IUD).
 - Sexual abstinence
 - Vasectomy of the sexual partner

Exclusion criteria:

- Patients w ho are not eligible for standard chemotherapy as assessed by the treating physician
- Central nervous system manifestation of AML
- Cardiac disease: i.e. heart failure New York Heart Association (NYHA) III or IV; unstable coronary artery disease (MI more than 6 months prior to study entry is permitted); serious cardiac ventricular arrhythmias requiring anti-arrhythmic therapy
- Patients undergoing renal dialysis
- · Chronic pulmonary disease with clinical relevant hypoxia
- Know n HIV or Hepatitis infection
- · Uncontrolled active infection
- Medical conditions other than AML with an estimated life expectancy below 6 months
- Previous treatment of AML except hydroxyurea up to 5 days
- · Relapsed or primary refractory AML
- Acute promyelocytic leukemia
- Previous anthracycline-containing chemotherapy
- Treatment with any known non-marketed drug substance or experimental therapy within 4 weeks prior to enrollment
- Incapability of understanding purpose and possible consequences of the trial
- · Pregnant or breastfeeding women
- Evidence suggesting that the patient is not likely to follow the study protocol (e.g. lacking compliance)

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 <u>Learn About Clinical Studies</u>.

Please refer to this study by its ClinicalTrials.gov identifier: NCT02140242

Contacts

Contact: Frank Staps +049 - 0351 458 5198 frank.staps@uniklinikum-dresden.de

Contact: Kerstin Wirth +049 - 0351 458 4671 kerstin.wirth@uniklinikum-dresden.de

Locations

Germany

PD Dr. med. Matthias Hänel Not yet recruiting

Chemnitz, Germany

Principal Investigator: Matthias Hänel, MD
PD Dr. Christoph Röllig Recruiting

Dresden, Germany

Principal Investigator: Christoph Röllig, MD

Sponsors and Collaborators

Technische Universität Dresden

Universitäts KrebsCentrum an der TU Dresden

Investigators

Principal Investigator: Christoph Röllig, PD Dr. med. Universitätsklinikum Dresden Carl Gustav Carus

More Information

Additional Information:

study alliance

University Hospital

No publications provided

Responsible Party: Technische Universität Dresden
ClinicalTrials.gov Identifier: NCT02140242 History of Changes

Other Study ID Numbers: TUD-2DAUNO-058
Study First Received: May 9, 2014
Last Updated: May 14, 2014

Health Authority: Germany: Federal Institute for Drugs and Medical Devices

Keyw ords provided by Technische Universität Dresden:

AML leukemia induction treatment daunorubicin 7+3

Additional relevant MeSH terms:

Leukemia, Myeloid Leukemia, Myeloid, Acute

Neoplasms Neoplasms by Histologic Type Daunorubicin

Antibiotics, Antineoplastic

Antineoplastic Agents
Enzyme Inhibitors

Molecular Mechanisms of Pharmacological Action

Pharmacologic Actions
Therapeutic Uses

Topoisomerase II Inhibitors Topoisomerase Inhibitors

ClinicalTrials.gov processed this record on November 16, 2014