Carfilzomib and lenalidomide-based treatment for younger and elderly newly diagnosed primary plasma cell leukemia patients.

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Based on 1) the improvement in survival of both younger and elderly pPCL patients by incorporation of novel agents (especially proteasome inhibitors and lenalidomide) and 2) improvement in survival for younger patients by using auto-SCT in treatment...

Ethische beoordeling Positief advies **Status** Werving gestart

Type aandoening

Onderzoekstype Interventie onderzoek

Samenvatting

ID

NL-OMON25322

Bron

Nationaal Trial Register

Verkorte titel HOVON 129 PCL

Aandoening

Multiple myeloma (Kahler's disease)

Ondersteuning

Primaire sponsor: Stichting Hemato-Oncologie voor Volwassenen Nederland (HOVON) **Overige ondersteuning:** Stichting Hemato-Oncologie voor Volwassenen Nederland (HOVON), Celgene, Onyx, KWF

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

• Progression-free survival (PFS, i.e. time from registration until progression or death, whichever comes first)

Toelichting onderzoek

Achtergrond van het onderzoek

Background of the study:

Primary plasma cell leukemia (pPCL) is the most aggressive form of the plasma cell dyscrasias. It is defined by the

presence of >2x109/L peripheral blood plasma cells or plasmacytosis accounting for >20% of the differential white cell

count, and does not arise from pre-existing multiple myeloma (MM.

The prognosis of pPCL is very poor, with a median overall survival (OS) of only 7 months with standard chemotherapy.

The introduction of autologous stem cell transplantation (auto-SCT) and the novel agents, especially bortezomib, has

recently improved outcome of patients with pPCL, but remains inferior when compared to MM. Therefore innovative

treatment approaches which incorporate various modalities are required to improve outcome.

Lenalidomide with carfilzomib and dexamethasone (CRd) is a regimen that combines high efficacy with low rate of

polyneuropathy and is therefore an attractive combination for induction treatment in pPCL. Furthermore, allogeneic stem cell transplantation (allo-SCT) is a form of consolidation treatment, which by virtue of the

graft-versus-tumor effect, results in a high rate of molecular remissions in plasma cell cancers. Several small studies

reported successful results and long-term survival following allo-SCT in pPCL

In this study, the CRd regimen will be used as induction therapy. In case of younger transplant-eliglible patients (18-65

years), CRd will also be used as consolidation and maintenance treatment after high-dose therapy with autologous stem

cell rescue and allogeneic stem cell transplantation. Elderly patients (≥66 years) with pPCL will receive carfilzomib and

lenalidomide maintenance after induction therapy.

Objective of the study:

The aim of this study is to improve the outcome of both younger and elderly primary plasma cell leukemia patients(pPCL)

by using next generation novel agents and in case of younger patients also the tandem of auto-SCT and allo-SCT.

Study design:

Multicenter, intergroup, phase 2 study

Study population:

Previously untreated patients with plasma cell leukemia with ISS staging between I and III, and 18 years or orlder.

Intervention (if applicable):

Patients will be treated with a combinatin of carfilzomib, lenalidomide and dexamethasone (CRd) followed by auto-stem

cell transplantation and consolidation with CRd, or if possible an allo stem cell transplantation with CR in maintenance until progression.

Primary study parameters/outcome of the study:

Progression-free survival (PFS, i.e. time from registration until progression or death, whichever comes first)

Secundary study parameters/outcome of the study (if applicable):

- Overall response rate (at least PR) after the different phases of treatment
- (s)CR + VGPR ((stringent) complete and very good partial response) after the different phases of treatment
- Overall survival, defined as time from registration until death from any cause. Patients still alive at the date of last contact, will be censored
- Toxicity and tolerability of the different phases of treatment
- Explore the value of prognostic factors including including FISH abnormalities, β 2-microgloublin, LDH, MRD-negativity, pPCL gene expression profiles and sequencing results on the overall response, overall survival and progression-free survival
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- Frequency of second primary malignancies

Nature and extent of the burden and risks associated with participation, benefit and group relatedness (if applicable):

Patients will be treated with a highly effective combination of drugs during induction, consolidation, and maintenance phases. Toxicity will be mainly hematologic.

Doel van het onderzoek

Based on 1) the improvement in survival of both younger and elderly pPCL patients by incorporation of novel agents (especially proteasome inhibitors and lenalidomide) and 2) improvement in survival for younger patients by using auto-SCT in treatment schedules, combined with the lower relapse rate with allo-SCT in pPCL, we here propose a new study to further improve the outcome of both transplant eligible (younger) and non-transplant eligible (elderly) pPCL patients.

Onderzoeksopzet

- At entry: before start of treatment (results from diagnostic tests may be used, provided that they are no older than 4 weeks prior to registration)
- After 4 induction treatment cycles for younger patients and after 4 and 8 induction treatment cycles for elderly patients
- After stem cell collection (if applicable): 4 weeks after start cyclophosphamide i.v.
- After each HDM (if applicable): 8 weeks after each course of HDM
- After CRd consolidation: 4 weeks after start of the 2nd CRd consolidation cycle for younger patients with donor; and after 4th CRd for younger patients without donor
- After RIC allo-SCT (if applicable): 8 weeks after RIC allo-SCT
- During maintenance/follow up: every 2 months (after progression every 6 months)

Onderzoeksproduct en/of interventie

Patients with age 18-65 years will receive 4 cycles of CRd followed by HDM and auto-SCT, then consolidation therapy with 2 cycles of CRd, and subsequently if eligible and a suitable donor is available then allo-SCT, the latter involving semi-intensive conditioning with busulfan + fludarabine. After allo-SCT patients will receive carfilzomib maintenance. Eight months after allo-SCT lenalidomide will be added to carfilzomib maintenance. The immunomodulatory

agent lenalidomide is added at a later stage after allo-SCT in order to prevent the development of GvHD.

In case no donor can be identified OR if patient is ineligible to proceed with allo-SCT after the first auto-SCT OR if patient does not want to undergo allo-SCT, a second course of high dose melphalan and auto-SCT will be administered between 2 and 3 months after the first course when the patient achieved at least PR. This will be followed by 4 cycles CRd consolidation and subsequently carfilzomib-lenalidomide maintenance.

Patients with age ≥66 years will receive 8 cycles of CRd followed by carfilzomib-lenalidomide maintenance until progression.

Contactpersonen

Publiek

VUmc

N.W.C.J. van de Donk Postbus 7057

Amsterdam 1007 MB The Netherlands Tel: 020 4442604

Wetenschappelijk

VUmc

N.W.C.J. van de Donk Postbus 7057

Amsterdam 1007 MB The Netherlands Tel: 020 4442604

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

- Patients with diagnosis of symptomatic pPCL (see appendix A)
- Measurable disease as defined by the presence of M-protein in serum or urine (serum M-protein > 5 g/l or urine M-protein > 200 mg/24 hours or abnormal FLC ratio with involved free light chain (FLC) > 100 mg/l) or proven plasmacytoma by biopsy)
- Age ≥18 years
- WHO-performance status 0-3 (but WHO=3 is allowed only when caused by pPCL and not by co-morbid conditions)
- Written informed consent
- Patient capable of giving informed consent (patient is legally, physically and mentally capable of giving consent)
- All men and women of childbearing potential should use adequate contraception during the study. Sperm could be frozen from men with child wish before start of treatment
- Negative pregnancy test at entry (if applicable)
- Patient is willing and able to adhere to the requirements of the lenalidomide Pregnancy Prevention Program (PPP)

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

- Any current CNS involvement with disease refractory to intrathecal chemotherapy.
- Female patients who are pregnant or breast feeding.
- HIV positive patients
- Active malignancy other than pPCL requiring treatment, or a malignancy that has been treated with chemotherapy currently affecting bone marrow capacity
- Patients with active, uncontrolled infections
- Severe neurological or psychiatric disease
- Severe cardiac dysfunction (NYHA classification II-IV, see appendix E)
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- Severe pulmonary dysfunction
- Significant hepatic dysfunction (serum bilirubin or transaminases ≥ 3.0 times normal level), unless related to pPCL
- Patients with GFR < 15 ml/min
- Known history of allergy to Capsidol (a cyclodextrin derivative used to solubilize carfilzomib)
- Previous chemotherapy or radiotherapy except local radiotherapy in case of local myeloma progression or corticosteroids maximum 7 days for symptom control or stabilization(this includes dexamethasone 40 mg daily) or inthrathecal chemotherapy in case of CNS involvement
- Systemic AL amyloidosis
- Any psychological, familial, sociological and geographical condition potentially hampering compliance with the study protocol and follow-up schedule

Onderzoeksopzet

Opzet

Type: Interventie onderzoek

Onderzoeksmodel: Parallel

Toewijzing: Niet-gerandomiseerd

Blindering: Open / niet geblindeerd

Controle: Geneesmiddel

Deelname

Nederland

Status: Werving gestart

(Verwachte) startdatum: 10-08-2015

Aantal proefpersonen: 116

Type: Verwachte startdatum

Ethische beoordeling

Positief advies

Datum: 12-08-2015

Soort: Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register ID

NTR-new NL5202 NTR-old NTR5350

Ander register MEC/CCMO: 2014.456/NL47727.029.14

Resultaten