Observational cohort of patients treated with stereotactic radiotherapy for Oligo LYMPh nOde and other soft tissue metastasiS; the OLYMPOS cohort

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The main clinical challenge remains to identify patients who may benefit from aggressive local treatment (stereotactic radiotherapy, SBRT) of soft tissue oligometastases: for which patients can systemic treatment be postponed? Patients who are...

Ethische beoordeling	Positief advies
Status	Werving tijdelijk gestopt
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON29672

Bron Nationaal Trial Register

Verkorte titel OLYMPOS

Aandoening

oligometastatic cancer

Ondersteuning

Primaire sponsor: UMC Utrecht **Overige ondersteuning:** This work was supported by the Dutch Cancer Society under Grant 2015-0848.

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

progression free survival after SBRT

Toelichting onderzoek

Achtergrond van het onderzoek

Rationale: With improved volumetric imaging modalities, oncological patients are increasingly diagnosed with limited soft tissue (oligo)metastatic disease (i.e. nodal, adrenal, liver, muscle or other soft tissue lesions) after having been treated for primary tumors. These patients are regularly treated with stereotactic radiotherapy to the detected lesions, aiming for local control and for postponement of systemic treatments (chemotherapy, immunotherapy or hormonal treatment) from which patients may benefit more in case of more extended metastatic disease. However, our knowledge concerning selection criteria for stereotactic radiotherapy in this patient group is limited. We have only limited data on the radiation dose and the fractionation schedule that are needed and on treatment outcome in terms of target response and morbidity. Additionally, new (radiotherapy) interventions are becoming available from which patients with oligometastatic disease might profit.

Objectives:

1. To prospectively collect data on patients being treated with stereotactic radiotherapy for soft tissue oligometastases at UMCU

2. To establish criteria for better defining which patients with oligometastatic soft tissue disease might benefit most from stereotactic radiotherapy.

3. To create an infrastructure for efficient, fast and pragmatic evaluation and implementation of new (radiotherapy) interventions.

Study design: Observational, prospective cohort study, according to the 'cohort multiple Randomized Controlled Trial' (cmRCT) design.

Study population: All patients with lymph node, adrenal, liver, muscle or other soft tissue oligometastases referred to the Department of Radiation Oncology (UMCU).

Main study parameters and endpoints: Clinical parameters (oncological history, symptoms, imaging, technical and treatment data), radiotherapy parameters (dose, fractionation, treatment margins), clinical endpoints (toxicity, time to progression, time to start systemic treatment, survival) and patient reported outcomes (QoL).

Doel van het onderzoek

The main clinical challenge remains to identify patients who may benefit from aggressive

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local treatment (stereotactic radiotherapy, SBRT) of soft tissue oligometastases: for which patients can systemic treatment be postponed? Patients who are diagnosed with additional metastases in <6 months after the radiotherapy treatment, could have been spared the radiotherapy treatment: achieving local control has little clinical relevance in the palliative setting that follows. Patients who experience complaints from soft tissue metastases, such as pain or neurological symptoms, may be treated with a true palliative intention with more appropriate radiotherapy treatment schedules. We aim at better prediction of progression free survival, in order to allow improved patient selection for SBRT treatment of oligometastatic disease.

One of the lacunas in knowledge about treatments for oligometastatic disease is the optimal radiotherapy treatment schedule for SBRT. Currently, in our department we treat patients with lymph node oligometastases with 5 fractions of 7 gray (Gy), but various treatment schedules have been reported in literature. The administration of radiation dose on the target volume is very precise in SBRT, but the dose received by surrounding healthy organs may show important variations between the different treatment sessions. Currently this limits us in choices regarding the radiotherapy treatment schedule; it has been advocated that a higher biological effective dose may be needed for achieving optimal long-term local control. With better knowledge of the radiation dose that will be received by surrounding healthy organs, and improved sparing of these organs at risk (OAR), we hypothesize that it may be possible to safely increase the number of treatment sessions (hypofractionation). Investigating the potential for dose escalation and hypofractionation in nodal SBRT are goals for future studies that we want to facilitate in the OLYMPOS cohort.

Onderzoeksopzet

Oncological outcomes such as progression-free survival, overall survival and time until start of systemic treatment will be investigated up to 5 years after the (first) OLYMPOS SBRT treatment.

Physician-reported toxicity will be reported at the time points for which it is available, generally this is once during treatment (treatment is usually spread over 1-2 weeks), once after 1 week, once after 4 weeks and once after 3 months. Most patients will then be referred back to the referring physician, so we mainly look at acute toxicity after SBRT, but grade >= 3 toxicity is also investigated using a biannual SAE questionnaires.

Patients will be asked to fill in quality of life questionnaires before the start of treatment, and after 1 and 4 weeks, 3 and 6 months after radiotherapy, and then every 6 months until 5 years after radiotherapy or until a next oncological treatment other than radiotherapy is initiated.

Onderzoeksproduct en/of interventie

stereotactic radiotherapy (SBRT) of soft tissue oligometastases

Contactpersonen

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Patients are eligible when they meet the following criteria:

• Is referred for, or will receive, stereotactic radiotherapy of a soft tissue metastasis with a localization other than brain or lung.

• Informed consent – at least – for use of routinely collected clinical data for research purposes (including follow up data in other hospitals)

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Patients are ineligible when they meet the following criteria:

- Age <18 years
- Mentally incompetent patients

Onderzoeksopzet

Opzet

Туре:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Anders
Toewijzing:	N.v.t. / één studie arm
Blindering:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland	
Status:	Werving tijdelijk gestopt
(Verwachte) startdatum:	01-12-2017
Aantal proefpersonen:	700
Туре:	Verwachte startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Nog niet bepaald

Ethische beoordeling

Positief advies	
Datum:	01-02-2021
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.

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In overige registers

Register ID

NTR-new NL9252

Ander register METC Utrecht : METC 17-822 (and 17-411, which was the non-WMO predecessor of the current OLYMPOS study)

Resultaten

Samenvatting resultaten

https://doi.org/10.1080/0284186X.2021.1955970