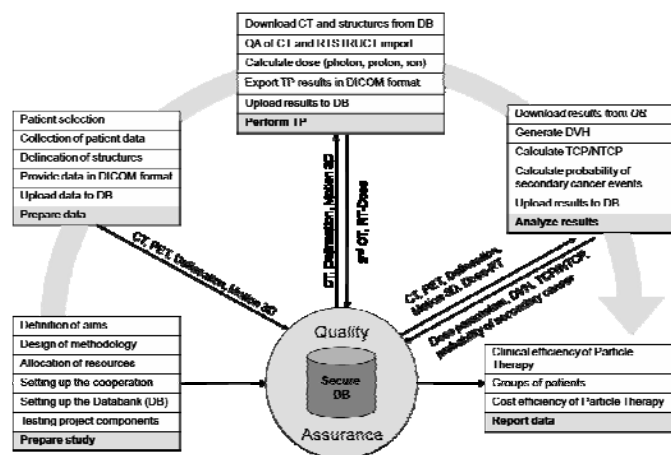
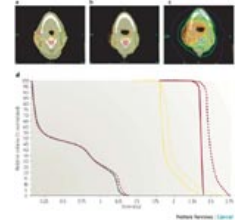


Newsletter ROCOCO

number 3, October 2009

In Silico clinical trial in lung, prostate and head&neck cancer, comparing photons, protons and C-ion therapy treatment

- Maastricht Radiation Oncology (MAASTRO), GROW Research Institute, University Hospital Maastricht, The Netherlands.
- Gesellschaft für Schwerionenforschung (GSI), Germany.
- Heidelberger Ionenstrahl-Therapie (HIT), Germany.
- Netherlands Cancer Institute (NKI), the Netherlands.
- University Medical Center Groningen (UMCG), the Netherlands.
- University Hospital Ghent (UHG), Belgium.
- University Hospital Aachen, Germany.
- Paul Scherrer Institute (PSI), Switzerland.
- Centre de Protontherapie d'Orsay (CPO), France.
- Massachusetts General Hospital and Harvard Medical School (MGH/HMS), USA.
- National Institute of Radiological Sciences (NIRS), Japan.



Databank

The databank is available on:

ftps: <ftp://ftp.maastro.nl>
(using FileZilla) or via
<http://www.mistir.info>.

Data-sets for lung-, prostate- and H&N cancer are currently available. The first planning results of some indications with different modalities can be viewed (Table 1, next page).

- All images on the website have been converted to DICOM-RT format
- Abstracts, presentations and posters submitted on behalf of the project are also published on the website ...

Concerning uploads to the ftp-site, please note:

- Acceptable format of dose files is **DICOMRT**
- At least one **screen shot** is required per uploaded CT-data and dose file



Review meeting 2nd September (Maastricht)

A review meeting was held in Maastricht in order to inform all participants about the current status of the project and to discuss the actions and time-line.

Participants from Atrep (Trento), MGH (Boston), NKI (The Netherlands), UMCG (The Netherlands), UHG (Belgium), CPO (France), AKH (Austria) and MAASTRO (The Netherlands), were present.

At current several institutes are performing treatment planning on different tumor sites using different modalities. The table below gives an overview of the current available data on the secured website.

Table 1

Tumor site	Data set	3DCT	IMRT	TP protons	TP C-ions
Lung	25	25	22	23	0
Head & Neck*	24	0	0	0	0
Prostate**	25	5	5	5	0

* Datasets are available for QA. A dummy run set of 3 patients is prepared.

** Datasets are with 5/2/5 mm spacing and need to be converted to 3mm uniform. Currently planned (5) patients need to be redone when the datasets are available.

Presentations and publications

- 3 newsletters
- Scientific publications:
 - Design and technical challenges of a multicenter in-silico clinical trial: Radiation Oncology COllaborative Comparison (ROCOCO) (*Radiother&Oncol, in revision*)
A multicentric in-silico clinical trial comparing photons and protons for radiotherapy in Non-small cell lung cancer (NSCLC): a planning study (*in preparation*)
- Presentations
 - PTCOG, Florida (US) 2008 (Poster)
 - ESTRO, Göteborg (SE) 2008 (Oral)
 - ICTR, Geneva (CH) 2009 (Oral)
 - Proton conference, Delft (NL) 2009 (2 Awarded Posters)
 - Enlight meeting, Valencia (SE) 2009 (Posters)
 - ESTRO, Maastricht (NL) 2009 (Oral)
 - PTCOG, Heidelberg (D) 2009 (Poster)

News flash

- COST-grant was presented on 10/09/09 in Brussels, final result is expected in 1st week of December.



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