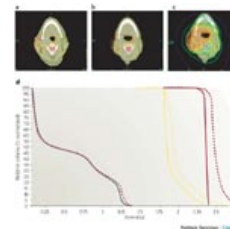


Newsletter

Number 4, September 2011

- 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.
- University Hospital Marburg (UHGM), Germany
- University of Oxford (JAI), United Kingdom
- Medical University of Vienna (MUV), Austria
- 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.
- Limburg Oncology Center (LOC), Belgium.
- Massachusetts General Hospital (MGH) Boston, USA
- Madison Memorial Hospital (UOW), Madison, USA
- University hospital Pennsylvania (Upenn), Pennsylvania, USA.
- Liège University Hospital (CHU), Liège, Belgium



News flash

Madelon has left MAASTRO clinic for a new job and unfortunately quit here work for the ROCOCO study. We sincerely thank Madelon for all the work she did and keeping up the spirit of ROCOCO. We wish her good luck on her new job.



The project management of ROCOCO was transferred to Esther Bloemen van Gorp, Post Doc at MAASTRO clinic. Esther will organize the upcoming telephone conferences, take over the organizational aspects of the ROCOCO study and update the ROCOCO protocol. She is the main contact person within the ROCOCO project and can be contacted by e-mail (esther.bloemen@maastro.nl) or phone (+31-88-4455869).

New groups within the ROCOCO

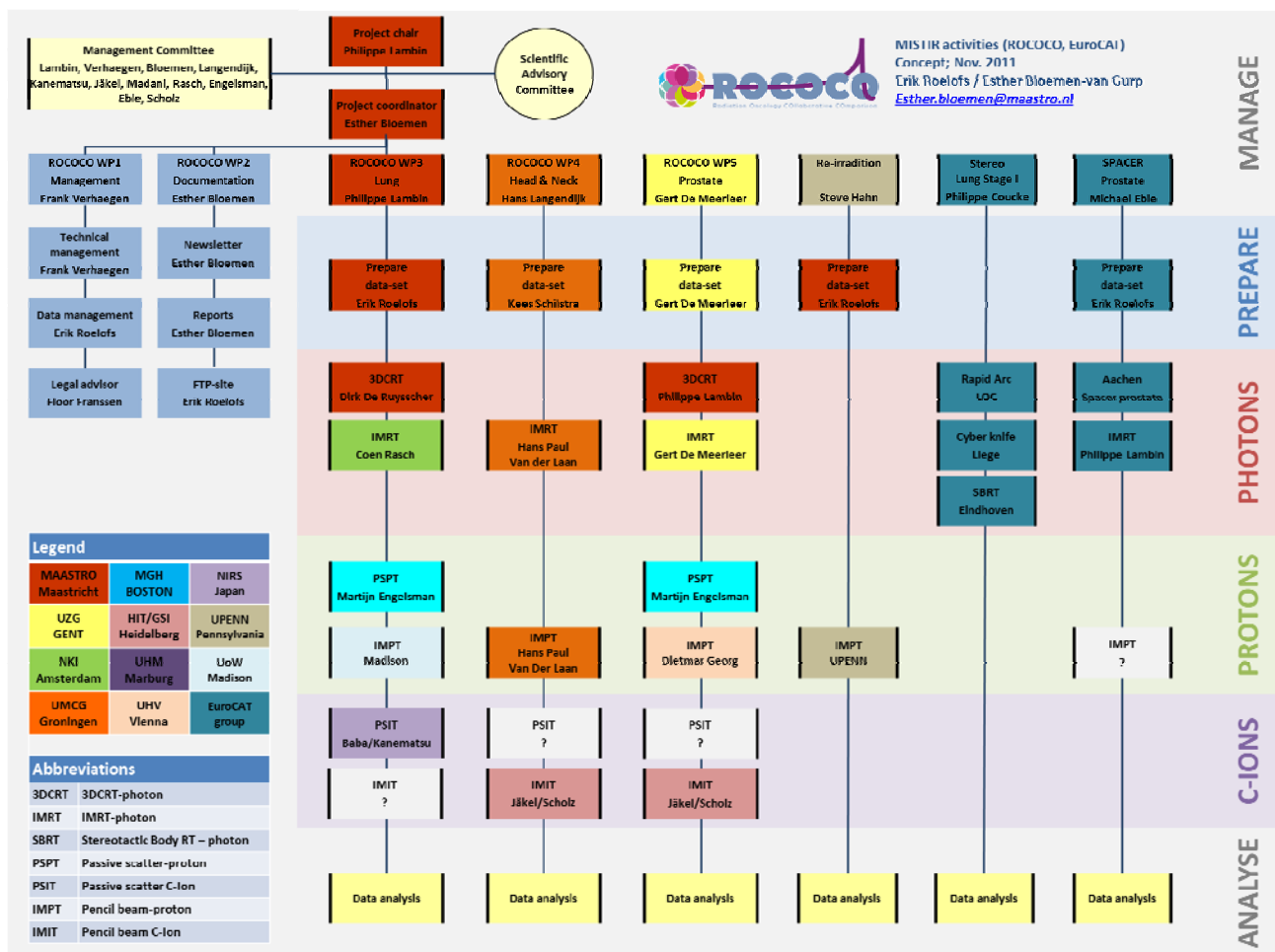
The ROCOCO project is gaining momentum and international recognition. Within the EuroCAT project, a new set of studies was initiated. An overview of all participants is presented on the next page of this newsletter (under development).

A short update:

- Liege and the Limburg Oncology Center (Belgium) collaborate in ROCOCO using a Rapid Arc-cyberknife technique for lung planning. A successful dummy run was performed.
- Aachen (Germany) will collaborate by a planning study of prostate patients injected with a spacer gel between rectum and prostate.
- Contribution of Eindhoven (The Netherlands) for stereotactic planning of lung patients is under discussion.

Further extension of the group of participating institutions:

- Vienna (Austria) using pencil beam proton treatments on an individualized ITV for prostate patients (Vienna).
- Pennsylvania (Upenn) will start investigating re-irradiation
- Madison (UoW) will start IMPT planning on the ROCOCO lung dataset



New logo

Based on an initial design by Hans Paul van der Laan (UMCG), Erik Roelofs created a new logo shown above, including the EuroCAT 'flower' logo, which has included ROCOCO in its activities (www.eurocat.info).

Website (www.mistir.info)

- Published a number of presentations (under ROCOCO)
- Uploaded a document (figure above) presenting an overview of all participants and contributions.
- Received the dummy run data of LOC and CHUL.
- CHUL uploaded 6 datasets (CTs with arms down, structures and dose distribution).
- Power point about ROCOCO presented by Esther Bloemen at the EuroCAT platform

Next steps

- Aachen has agreed to upload 16 datasets with scans before and after insertion of a spacer for prostate patients. Maastricht will add their available datasets as well (6 at the moment).
- Photons: MAASTRO: create DVHs of different prostate modalities, analyze results and send to UGH. UGH: start drafting prostate paper
- Protons: GSI/UHMG: discuss RBE lung; MUV: IMPT prostate; MUV: delineate ITV prostate (pencil beam).
- Carbon-ions: UHMG/HIT/GSI: Carbon-ion treatment planning for prostate and lung
- Cost efficiency study prostate and lung; Oxford in collaboration with University Maastricht

Presentations publications

➤ Scientific publications:

- Roelofs E, Persoon L, Qamhiyeh S, Verhaegen F, De Ruyscher D, Scholz M, Iancu G, Engelsman M, Rasch C, Zijp L, Meerleer GD, Coghe M, Langendijk J, Schilstra C, Pijls-Johannesma M, Lambin P.
Design of and technical challenges involved in a framework for multicentric radiotherapy treatment planning studies. *Radiother Oncol.* 2010 Dec; 97(3):567-71.
- Roelofs E, Engelsman M, Rasch C, Persoon L, Qamhiyeh S, De Ruyscher D, Verhaegen F, Pijls-Johannesma M, Lambin P.
Results of a multicentric in silico clinical trial (ROCOCO): comparing radiotherapy with photons and protons for non-small cell lung cancer. *Journal of Thoracic Oncology* (doi: 10.1097/JTO.0b013e31823529fc).
- Hans Paul van der Laan, Miranda E.M.C. Christianen, Hendrik P. Bijl, Cornelis Schilstra, Johannes A. Langendijk.
The potential benefit of swallowing sparing intensity modulated radiotherapy to reduce swallowing dysfunction: an in silico planning comparative study. *Radiother Oncol.* (under review).
- Hans Paul van der Laan, Tara A. van de Water, Heleen E. van Herpt, Miranda E.M.C. Christianen, Henk P. Bijl, Erik. W. Korevaar, Coen R. Rasch, Aart A. van 't Veld, Cornelis Schilstra, Johannes A. Langendijk, on behalf of the ROCOCO cooperative group.
The potential of intensity-modulated proton radiotherapy to reduce swallowing dysfunction in head and neck cancer. *JCO* (in submission).

➤ Presentations

- PTCOG 47, Florida (US) 2008 (Poster)
- ESTRO 27, Göteborg (S) 2008 (Oral)
- ICTR, Geneva (CH) 2009 (Oral)
- Proton conference, Delft (NL) 2009 (2 Awarded Posters)
- Enlight meeting, Valencia (ES) 2009 (Posters)
- ESTRO Physics, Maastricht (NL) 2009 (Oral)
- PTCOG 48, Heidelberg (D) 2009 (Poster)
- ESTRO 29, Barcelona (ES) 2010 (Oral)
- PTCOG 49, Gunma (JP) 2010 (Poster)
- ESTRO 30, London (UK) 2011 (Oral)

Conferences (2012)

	conference	when	were	Abstract deadline
1	ICTR-PHE 2012	Febr.27th -March 2th, 2012	Geneva	October 15th 2011
2	ESTRO 31	9-13 May, 2012	Barcelona	January 16th 2012
3	PTCOG 51	14-19 May, 2012	Seoul	February 15th 2012
4	ECCO-EACR	7-10 July, 2012	Barcelona	March 1st 2012
5	Multidisciplinary Symposium in Thoracic Oncology	6-8 Sept.2012	Chicago	Early February 2012
6	ASTRO 2012	Oct 28- Nov 1		February 2012?