European Society for Blood and Marrow Transplantation

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Mission Statement of CTIWP

To understand the immunological events occurring upon haematopoietic stem cell transplantation and to implement cellular therapy approaches to improve transplantation outcomes

Cellular Therapy & Immunobiology Working Party

Chair: Chiara Bonini Secretary: Christian Chabannon Statistician: Dimitris Ziagkos

Retrospective Studies

Two Combined Studies

These studies are combined within one questionnaire. The MED-C/additional information is queried through a web based questionnaire.

Actions to be implemented:

- Promote retrospective and prospective trials of cell/gene therapy
- Map GMP facilities spread in Europe
- Improve EBMT Registry, with a **dedicated registry for cellular products**, and **clinical trials** of cell and cell-based gene therapy
- Implement EBMT Cellular Repository for Cell/gene therapy clinical trials
- Promote partnerships with the International and European Societies of Cell/Gene Therapy and with **major investors** in the field

Non-Interventional Prospective Studies

NK Cell Allo-Reactivity

The role of donor vs. recipient NK cell allo-reactivity in haploidentical hematopoietic transplantation for AML and ALL

Pl's: A. Velardi, L. Ruggeri

Donor-versus-recipient NK cell allo-reactivity is a key therapeutic element in the success of HLA haplotype mismatched ("haploidentical") hematopoietic stem cell transplants for acute myeloid leukemia. The role of NK cell alloreactivity will be assessed separately in T cell depleted and T cell replete transplants in patients with 1) AML or ALL in any remission; and 2) AML or ALL in chemo-resistant relapse.

The role of parent/child and sibling/sibling immune interactions (Inherited Paternal vs Non-inherited Maternal Antigens) in clinical outcomes after haploidentical transplantation for leukemia under diverse protocols

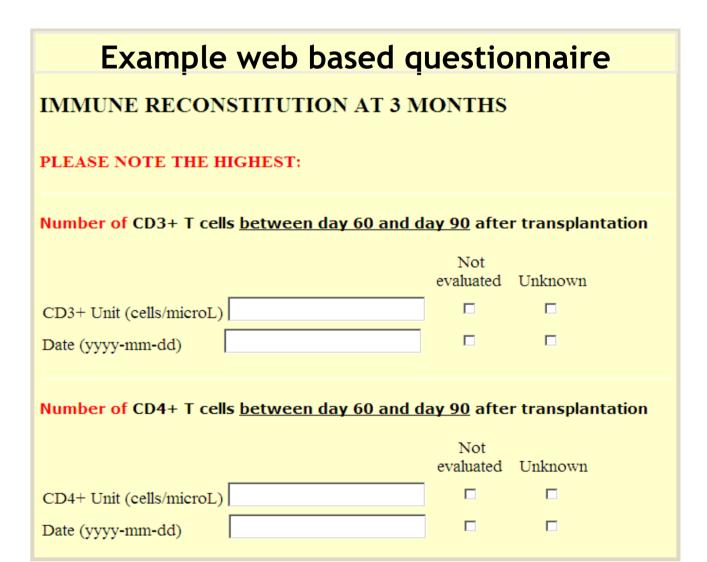
Pl's: J.J. van Rood, F.H.J. Claas, M. Oudshoorn, D. Roelen, A. Velardi

Father **IPA**/NIPA

Patient IMA/IPA

Mother IMA/NIMA

NIMA = non inherited maternal antigens NIPA = non inherited paternal antigens IMA = inherited maternal antigens = inherited paternal antigens **IPA**



Aim: to collect **200 patients** Collaborating WP's: PDWP-ALWP

Update March 2015

- Participating centers: N=17
- Cohort: 94 patients from 7 centers
- MED-B forms completed: N=49
- MED-C forms completed: N=40

Final request for participation is sent in March 2015. Center participation forms available at the EBMT booth.

Thymic Function

Recipient pretransplant thymic function as a biomarker of transplant outcome after allogeneic Hematopoietic Stem Cell Transplantation (allo-HSCT) given for primary ALL and AML PI: A. Toubert

The primary aim of this study is to evaluate the impact of pretransplant

Identifying immunological biomarkers predicting clinical outcome after haploidentical stem cell transplantation under diverse protocols

Pl's: A. Bondanza, C. Bonini, A. Toubert, A. Velardi

Collaborating WP's: PDWP-ALWP

Update March 2015

- Participating centers: N=8
- Cohort: 469 patients from 8 centers
- MED-B completed: N=446
- MED-C completed: N=411
- NetQ completed: N=443 ullet
- HLA completed: N=415

Participating centers, please complete the MED-B/C/NetQ questionnaires

Meetings

EBMT Congress 2015 Istanbul

CTIWP Business Meeting

CTIWP Session

Monday, March 23rd, 07:00-08:50 Tuesday, March 24th, 13:45-15:15

thymic function on disease relapse and relapse-free survival in patients who undergo allo-HSCT in European Centers. The final goal of the study would be to assess whether recipient pre-transplant TREC (T-cell receptor excision circles) could be a useful prognostic biomarker in allo-HSCT and in which groups of patients.

Aim: to collect **800 patients** Collaborating WP's: PDWP-ALWP

Update March 2015

- Registered centers: N=24
- Expected number of inclusions: N≈800-1200
- Cohort: 2 patients from 24 centers

Participating centers, please include your patients

Room: 3B/12

Room: Üsküdar Hall 3

CTIWP Data Office

For participation in, or information on CTIWP studies, please contact the CTIWP at the EBMT Data Office in Leiden, The Netherlands:

Steffie van der Werf Study coordinator: Data manager:

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