

Manuscript no. HAEMATOL/2011/047753 entitled “The composition of the mesenchymal stromal cell compartment in human bone marrow changes during development and aging

Marijke W. Maijenburg, Marion Kleijer, Kim Vermeul, Erik P.J Mul, Floris P.J. van Alphen, C. Ellen van der Schoot and Carlijn Voermans

Information about the contributions of each person named as having participated in the study

1) Guarantor(s), i.e., person(s) who is (are) responsible for the integrity of the work as a whole:
• Carlijn Voermans, PhD. Departments of Experimental Immunohematology and Hematopoiesis Sanquin Research, Amsterdam and Landsteiner laboratory, Academic Medical Center, University of Amsterdam, Amsterdam the Netherlands

According to the International Committee of Medical Journal Editors (ICMJE) (http://www.icmje.org/ethical_1author.html): “*Authorship credit should be based on: 1) substantial contributions to conception and design, acquisition of data, or analysis and interpretation of data; 2) drafting the article or revising it critically for important intellectual content; and 3) final approval of the version to be published. Authors should meet conditions 1, 2, and 3 Acquisition of funding, collection of data, or general supervision of the research group alone does not constitute authorship*”.

The guarantors of this manuscript confirm that all persons designated as authors qualify for authorship, and that each author has participated sufficiently in the work to take public responsibility for appropriate portions of the content.

2) Authors who participated in the conception of the study: Carlijn Voermans and C. Ellen van der Schoot

3) Design & Methods. The following authors were responsible for specific investigations (please detail):

• Marijke W. Maijenburg, Carlijn Voermans, C. Ellen van der Schoot for the design of the study.

4) Results. The following authors were responsible for specific portions of the results, including figures and tables (please indicate the person responsible for each figure and each table):

• Marijke W. Maijenburg, Marion Kleijer, Kim Vermeul, Floris PJ van Alphen and Erik PJ Mul were responsible for the results for all figures and tables

5) Writing the manuscript. The following authors were responsible for writing the manuscript:

• Marijke W. Maijenburg, Carlijn Voermans, C. Ellen van der Schoot were responsible for writing the manuscript

6) Contributors Listed in Acknowledgments:

Dr BJ Biemond, A van der Laan, Dr SE Dohmen, K. de Heer (Department of Hematology) Academic Medical Center Amsterdam and the Dept. of Cardiothoracic Surgery, Academic Medical Center Amsterdam for collection of bone marrow aspirates.

Ms N Papazian and Dr T Cupedo (Department of Hematology, Erasmus University Medical Center Rotterdam) collected fetal bone marrow. Ms T Schaap and Dr D Hamman (Department of Immunopathology Sanquin Diagnostics) provided technical assistance with the chondrocyte assays.

Dr M von Lindern (head of the department of Hematopoiesis provided general support (reading the manuscript and helpful discussions)