



Interactive Educational Material for Paediatric Bone Marrow Transplantation Nurses

Final Report

Public Part

Project information

Project acronym: BMTCare
Project title: Interactive Educational Material for Paediatric Bone Marrow Transplantation Nurses
Project number: 2009 – 2182 / 001 - 001
Sub-programme or KA: Multilateral
Project website: www.bmtcare.com

Reporting period: From 01/10/2010
To 30/09/2012

Report version: Final
Date of preparation: October 2012

Beneficiary organisation: Hemosoft IT and Training Services

Project coordinator: Mr. Enver Hakan Konaç
Project coordinator organisation: Hemosoft IT and Training Services
Project coordinator telephone number: (90-312) 210 10 86
Project coordinator email address: hakan@hemosoft.com

This project has been funded with support from the European Commission.

This publication [communication] reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Executive Summary

This public section of the Progress Report aims at the EACEA's benefit and use for the final assessment of the project. This report would also be a useful source of reference to the members of other consortiums and other interested parties in terms of understanding the project phases and observing the best practices.

Bone marrow transplantation (BMT) is associated with high morbidity and mortality rates and places a huge economic burden on patients, patient families and related countries. This treatment method is used in several pathological diseases varying from cancer and non-cancer blood diseases to metabolic, immunological, and neurodegenerative diseases in children. In the BMT field there is deficiency of knowledge in literature regarding supportive therapies and services particularly in paediatrics. Therefore our project aims at paediatric BMT nurse training which we believe would lead to an improvement in patient safety in the long-term. The short-term beneficiaries of the project would be the paediatric BMT nurses whereas BMT patients, and broader range of medical experts such as paediatric and adult haematology/oncology nurses and physicians would also benefit from the project outcome in the long-term through extension of the content.

Most of the diseases that are treated with bone marrow transplantation require special nurse care services in terms of age, nutrition, neurological development and general condition of the patient during pre-transplantation, transplantation and post-transplantation periods. Nursing services have great importance in the success of transplantation. Bone marrow transplantation nurses are one of the most critical personnel group in sustainability of patients' health as well as success and economic efficiency of the transplantation unit. Thus, paediatric BMT nurses are in need of vocational knowledge, guidance and new training materials. However, despite the training needs of BMT nurses, especially in paediatric areas, unfortunately there are very few and inadequate guiding materials available at present.

Based on the conditions mentioned above, we have developed a project to address the training needs of the paediatric BMT nurses within the framework of European Commission's Lifelong Learning - Leonardo da Vinci Programme for Vocational Education and Training. BMTCare was accepted by the European Commission in 2009. The Project actually started in October 2010 and was completed at the end of September 2012.

The overall aim of the project was utilization of nursing care in the paediatric bone marrow transplantation field in the most efficient and supportive way in order to increase the success rate in bone marrow transplantation procedures and post-transplantation care services and consequently contribute to public health. Within the scope of our project, an innovative and up-to-date interactive training material equipped with practical knowledge is developed for paediatric bone marrow transplantation nurses. The developed system provides opportunity for paediatric BMT nurses to determine their own training needs with its self-assessment, evaluation and guiding tools. In addition, the self-assessment tests will provide immediate feedback to the users.

The e-training and self-evaluation and measurement tools developed within the scope of the project aims to supplement the BMT nurses' theoretical and practical knowledge and contribute to the standardization process in daily practice. The e-library section of the portal encompasses courses and case studies on important topics relating to paediatric BMT. In the self-evaluation and measurement section, there are tests regarding the topics covered by the e-training material. These tests also guide and direct users towards the right course of action. The multi-language portal which is in Turkish, English, German, Spanish and Czech

languages, contains “nurse cafe” forum area where nurses, physicians and patients can share information and exchange views.

The project was managed and implemented by a consortium comprising a team of professionals from four countries. The consortium accommodated under its roof project partners from different disciplines responding to all aspects required by the project theme. The project coordinator was a company from Turkey with vast experience in managing, coordinating and implementing R&D projects on national and international levels as well as in software development especially for the benefit of the health sector. Three consortium members were the BMT units of renowned university hospitals and they constituted the scientific team which dealt directly with issues relating to BMT treatment and procedures. The scientific team which was composed of medical personnel was responsible for the development of the e-training content material. Lastly, one consortium member had broad experience in e-learning, including development of interactive e-learning material, survey assessment and data collection/analysis.

We have uploaded the whole content (36 interactive training material in 5 languages and self-evaluation tests) to the web portal (www.bmtcare.com) created during the project implementation period. We are updating the bmtcare web portal on continuous basis as required by the feedback received from users.

Table of Contents

1. PROJECT OBJECTIVES.....	6
2. PROJECT APPROACH.....	7
3. PROJECT OUTCOMES & RESULTS.....	10
4. PARTNERSHIPS	13
5. PLANS FOR THE FUTURE	13
6. CONTRIBUTION TO EU POLICIES	15

1. Project Objectives

The main objective of the project was to develop an interactive e-training web portal for the BMT nurses with a specific attention to paediatrics to address the gap in the literature regarding the BMT nursing theory and practice and respond training needs of BMT nurses with an easily accessible, free-of charge, interactive training material. The project aimed at emphasizing the criticality of nursing-care throughout the BMT patient treatment process from early stages to long-term follow-up and contributing to the enhancement of BMT nurses' vocational capacity and increase in the quality of the services delivered to BMT patients. The specific aims and objectives of the proposed project are as follows:

- Increase the success rate of supportive care services connected to BMT units by providing broad multi-perspective e-training material for paediatric BMT nurses.
- Provide support for paediatric BMT nurses in terms of vocational knowledge and practice in order to fully address criticality of patient care before, during and after the transplantation process.
- Provide opportunity for paediatric BMT nurses to measure and evaluate their own vocational knowledge level through measurement and evaluation tools embedded in the e-training material and improve their skills accordingly.
- Enable the paediatric BMT nurses to work more effectively and contribute to the improvement in care services and patients' quality of life.
- Provide guidance for paediatric BMT nurses regarding proper behavioural patterns and supportive treatment models addressing different phases, processes, periods and risk levels in connection to different types of diseases.
- Help paediatric BMT nurses to improve competencies in offering patient-specific care services, effective rehabilitation, exercise and nutrition programs.
- Keep patients' families informed and raise their awareness on the possible supportive mechanisms in BMT process and specific problems that BMT patients are likely to experience.
- Lead to the establishment of a network of users from all across Europe in the long-term that would transform the outcome of the project (web portal) into a renowned reference platform used on global level.
- Contribute, in the long-term, to the well-being and life quality of patients who have received BMT treatment.

2. Project Approach

Our project on development of the bmtcare e-training web portal for pediatric bone marrow transplantation nurses adapted a hybrid approach within which an adult learning approach is combined with an e-learning technological approach. To begin with, there were two main tasks that contributed to the final output of the project:

- Needs Assessment and Material Development including Translations
- Development of e-Training Web Portal and Transfer of e-Training Material to the Web Portal

To be able to realize these two tasks in compatibility, both activities were based on the results of needs assessment phase of the project through which the training needs and preferences of the target groups were determined. Within the needs assessment phase, a total of 133 participants have returned the filled-in survey.

Following the needs assessment phase, the members of the Scientific Team of the project combined their knowledge and experience to respond to the training needs of the target group in terms of their training preferences. The Scientific Team also guided the topic selection task based on their knowledge of essential topics within the BMT field in order to be able to start scientific content development. The content development process was not a process without continuous feedback. Our project group was always in contact with the target groups throughout the project to reflect their feedback to our project outputs (i.e. scientific e-training content and web portal). In addition to feedback from external parties, in-group feedback culture was adopted by our project group. For instance, once a scientific chapter was written by a member of the Scientific Team, it was subject to internal control/review of the other members of the team which was consequently evaluated by the original author once again and modified accordingly. There were two more procedures followed to provide output quality: external review and editorial review. A renowned BMT expert, Prof. Dr. Wolfram Ebell from Charite University, Berlin performed a final scientific (external) review for each chapter of the scientific content. Furthermore, a respectable medical journal editor and a medical doctor performed editorial task for the English versions of the scientific chapters.

The developed scientific content (total of 36 chapters on various essential topics of the BMT field) was then translated into Turkish, Czech, Spanish and German and all translations were once more reviewed and edited by the native speaker project experts.

E-training portal development efforts were started and continued parallel to the scientific content development. The web portal comprises two sections: The Public Section which is accessible by all internet users and the e-Training Section which is accessible only through registration. The Public Section and e-Training Section are currently functional. E-training content was uploaded in all partners' languages (Turkish, German, Spanish, Czech) plus English. Moreover, a self-assessment tool was created with 70 test questions on various discussion topics related to the material presented in the e-training section. A forum area was also constructed to enhance communication and interaction among users. Although all proposed features of the web portal were completed, our project group is well aware of the dynamic nature of the web tools, thus the updating process of the portal will be undertaken on continuous basis.

Consequently, the developed e-training material was transformed into an interactive format supported with audio-visuals. As a final step, the finalized content was uploaded to the bmtcare web portal and reverse feedback mechanism was started through technical tests of the system, review of the bmtcare web portal by the authors, pilot application of the portal

and external evaluation by independent experts in terms of educational and technical aspects. Based on the user reactions through pilot studies or other tools, new topics are planned to be added to the e-training content as a part of the sustainability plan.

Project Management Approach

Project partners produced a roadmap for issues concerning risk management, quality management, change management, and communication management and agreed upon a set of principles, at the kick-off meeting. Within this context, regular meetings/teleconferences were held between the partners regarding the administrative, financial, scientific and technical issues and the progress of the WPs and the project in general. Partners have sent to Project Coordinator every 6 months, progress reports on the tasks they were responsible for. The two committees monitored the progress of the project and adherence to budgetary limitations and adopted corrective measures when needed. Necessary administrative and technical follow-up activities for ensuring the implementation of the project with minimum or no deviation from the work plan/financial plan and compatibility of the WP outputs with expectations were determined to be the main concerns for project management. With that concern, a work plan was created during the Kick-Off Meeting, which was schematized as a flow chart. For continuous monitoring of project, efforts to assess compliance with the work plan were put forward. Periodical project meetings were organized and hosted by each partner. Hemosoft as the project coordinator closely followed up the compliance with the work plan, administrative and financial predetermined rules, whereas Hacettepe University Hospital as the scientific leader followed up scientific progression of the project. The working language of the project management and correspondence was English. In order to achieve a more effective project implementation and management, online project management platforms were developed which enabled document and information sharing. In addition to the project management platforms, continuous communication was sustained via phone, electronic mails and teleconferences.

Dissemination Methodology and Approach

The project group started dissemination activities with design of a project logo, acronym and brochure. A web platform then became the main tool for communication and dissemination. The public part of www.bmtcare.com was fully utilized for dissemination purposes.

Within the scope of the needs assessment phase of the project, more than 10 BMT centers in 4 project countries and in Slovakia were reached and the nurses within the centers were informed about our questionnaire and project aims. We have printed 3000 project brochures and distributed a part of them at the meetings attended by the project partners and the BMT community Europe-wide. These events included the 3rd Midsummer Meeting on Pediatric Hematology and Oncology in Liberec; Czech-Slovakian Medical Conference; Oncology Nurses Association's Hematopoietic Stem Cell Transplantation Nursing Course in Ankara; the 8th Meeting of the EBMT Pediatric Diseases Working Party; the 3rd Meeting of the EBMT Pediatric Nurses in Prague; and 7th National BMT and Stem Cell Treatments Congress in Antalya. During the dissemination activities, project group members encouraged the interested parties to contribute to the development of the portal content upon completion of the project and received positive replies from personnel of several BMT units. This is especially important as dissemination activities not only aimed at introducing the project to concerned circles but also at seeking support for the sustainability of the project outcome after the project is complete. Therefore these activities were the first steps towards realizing the goal of setting-up a network of European paediatric BMT nurses.

Project partners aimed to reach a larger share of stakeholders within Europe through advertisements published in magazines. An advertisement published in the renowned Parliament Magazine is an example of this effort.

The project group created a project booklet and CD to be distributed throughout the post-project implementation period. Finally, the pilot studies were perceived by the project partners as one of the best means of dissemination activities.

In addition to above mentioned dissemination approaches, acknowledging the power of social media, twitter and Facebook accounts were created on behalf of the project group on www.facebook.com/BmtcareETrainingMaterial and <https://twitter.com/bmtcare>.

3. Project Outcomes & Results

The main project outcomes comprise e-training portal + online questionnaires + scientific e-training material (courses, case studies, etc.) + online self-evaluation and measurement tests + project CD, brochure, booklet + portal user manual. The status of each project outcome as of the submission date of this report is displayed in the table below:

Outcome	Status
Kick-off Meeting and Meeting Report	Completed. Kick-off Meeting convened in Istanbul, Turkey on December 14, 2010.
Updated Work Plan	Completed. Agreed upon by all project partners at the Kick-off Meeting.
Work and Flow Charts	Completed. Project Coordinator (P1) drew the work and flow charts which show the project process in form of a diagram.
Partnership Contracts and Financial Identification Forms	Completed. All contracts and financial identification forms have been received from project partners. A signed copy of the contract was sent back to each partner.
Partner Progress Reports	Completed. Partners periodically provided the Project Coordinator (P1) with their progress reports and list of expenditures they made in context of the project. Total of 4 progress report covering 6-months duration were provided by each partner.
Progress (Interim) Report	Completed. The present report is the Public Section of the Progress Report.
Second Project Meeting (The First Scientific Meeting in Prague Czech Republic)	Completed. 14 participants for discussing results from interim questionnaire analysis, selection of topics, update of the work program
Third Project Meeting (The Second Scientific Meeting in Valencia Spain)	Completed. 16 participants for: (i) collective decision making (ii) evaluation of the developed e-training content (iii) determination of format and methodology for measurement and evaluation tools
Fourth Project Meeting (The Third Scientific Meeting in Prague Czech Republic)	Completed. 16 participants for (i) collective decision making (ii) evaluation of the developed e-training content (iii) increasing effectiveness of presentation of the information and (iv) focusing on dissemination and sustainability
Final Meeting (Antalya Turkey)	Completed. 17 participants, for evaluation of the project and discussion and determination of further dissemination, exploitation and sustainability strategies
Web Portal (Public section and e-training section)	Completed. All the produced content was uploaded to the web portal within the project implementation period. See. www.bmtcare.com . It will be updated as the new needs emerge.
Temporary Project Management Portal	Completed. However, it expired after the permanent project management platform was created within the portal's e-training section.
Content Determination Questionnaires	Completed. See http://survey.hemosoft.com/index.php?sid=31279&lang=en for the online version.

Content Analysis Document	Completed.
Project Logo, Banner, Acronym and Domain Name	Completed.
Training Chapters, Measurement and Evaluation Questions (Educational Document)	Completed. Total of 36 interactive chapters (internally and externally reviewed, and edited), 1 power point presentation, 3 training videos, 70 test questions including detailed feedback on various training content in 5 languages (English, Turkish, Spanish, Czech, German)
Pedagogical Evaluation Report	Completed. It provided insight on appropriateness of the developed e-training content for adult training in terms of universal principles.
Software Design and Development Document	Completed. It provided experts' feedback on system design, hardware, software, network configurations
Working Visit to eScience Institute	Completed. It provided opportunity to exchange information on innovative technologies.
Prototype Version of E-Training Material	Completed. Pilot studies were conducted with the help of developed prototype e-training portal.
Pilot Study Analysis Report	Completed. Provides summary user feedback on e-training material received through 8 different pilot studies conducted with different samples in Turkey, Czech Republic, Germany, and Spain.
Final Version of E-Training Material	Completed (see www.bmtcare.com)
Project Evaluation Report	Completed. Provided results from technical assessment of developed project outcomes, mainly the BMTcare web portal.
Dissemination booklets, brochures, CDs	Completed. Dissemination CDs, brochures, and booklets are in 5 language versions.
National / international valorization meetings / activities	Completed. Several dissemination meetings were organized and participated within the project implementation period. However, dissemination is planned to be continued within post-project implementation period for sustainability.

Link between Results and Objectives:

The project logo, banner and brochure were produced to create a unique identity of our project and also to ensure uniformity of the publicly demonstrated outputs in terms of visibility. The project logo was used on all related outputs within the project implementation project.

The outputs in the above table that are in the form of project meetings (total of 5), progress reports (on quarterly basis), project flowchart, project management web portal and work programs are related to technical, administrative and financial planning and monitoring of the project all of which were necessary for successful implementation of the project. These provided continuous review of the project activities in order to provide the most efficient use of the resources to achieve long-term objectives, among which further developing the interactive e-training material for BMT nurses and creating a European network of users are the most critical.

The content analysis document, questionnaire and questionnaire analysis results were produced within the scope of the needs assessment phase of the project which provided basis for the selection of the topics to be presented within the e-training material as well as the way to present material (case study, audio-visual, etc.). The content analysis document also served the aim of understanding the differences and commonalities in terms of training experiences, educational background, gender and age distribution, the best and the worst

knowledge and competency areas between the nurses from four different countries (Turkey, Germany, Spain, Czech Republic). The content analysis document which is publicly available can be accessed by other experts or any other interested parties from this field of study. The implementation of the questionnaire was also helpful in raising awareness regarding the training needs of the pediatric BMT nurses, as well as criticality of the nursing care especially in the BMT treatment.

Prototype version of the e-training material on the web portal enabled implementation of the pilot studies before finalization of the e-training material. Pilot studies provided opportunity to receive user feedback before opening the portal to the public access. Through received feedback, the project group made some improvements in the material, as well as reflecting the mentioned requests to the future plans. Prototype version made possible the pedagogical evaluation and technical evaluation by independent external experts. The feedback provided by the experts via pedagogical evaluation report allowed the content material to better serve the universal principles of adult training. Technical evaluation on the prototype version of the bmtcare portal was also performed. This provided us with an estimate as to the degree to which the portal meets the technical specifications of the proposed system. The project technicians made improvements in the web portal in terms of technical specifications in line with the feedback received from the experts. These altogether served the project aim in terms of providing an e-training web portal for the BMT nurses that best corresponds to the identified needs in the most suitable electronic environment through the most convenient method and tools.

With respect to national/international valorization meetings and activities, each partner benefited from pilot studies as a way of a valorization activity. During the pilot studies, project partners found opportunity to reach the medical personnel in their respective countries, introduce the project's essentials, and receive face-to-face and written feedback on the produced outputs. Collaboration possibilities were also explored with the parties concerned. One of the best ways of making an output disseminated among the target groups is having it referred to by the field experts or a colleague. Based on the pilot study feedbacks, we believe the people we reached would refer to our project material in the future. The reactions received within the scope of pilot studies as well as the dissemination studies provide insights proving that the project output is promising in terms of filling a gap in the area of training for pediatric bone marrow transplantation nurses. Within this context both the external evaluators and the pilot study participants mentioned that there is scarcity of such easily-accessible nursing care-focused training material, and the current material is one of the most comprehensive contribution to fill this gap. There were suggestions on the part of the users regarding publishing a book with the content of the web portal. These provide a positive estimate on the value of use of the produced training material.

Finally, all of the above mentioned outputs of the project serve the main aim of the project which is contributing to the enhancement of the vocational knowledge and competencies of the BMT nurses which would yield improvement in care services and the well-being and quality of life of BMT patients.

4. Partnerships

The project consortium comprising partners from Turkey, Germany, Spain and the Czech Republic (covering a geographical area from West Europe to East Europe and Eurasia) ensured the transnational realization of the project outcomes, mainly the e-training web portal for the bone marrow transplantation nurses, across Europe. Collaboration of teams from different countries in Europe leads to the realistic elicitation of differences and similarities among different regions in Europe in terms of training needs. This also provided us with an understanding of training preferences of target groups in different countries based on the output from the needs assessment phase of the project. Furthermore, sharing of the best practices of BMT experts who were educated and work in different countries ensured that their experiences and knowledge are collected under a common roof, hence consequently yielding a common value which would contribute to the European value-added. Suggestions of BMT experts from different countries created a diversity of ideas which positively affected the progress of the project.

To be specific, there were 3 scientific (P2 Hacettepe University Hospital, Turkey, P4 La Fe University Hospital, Spain; P5 Charles University, Czech Republic), and 2 technical partners (P1 Hemosoft; P3 eScience Institute). The scientific partners, benefitting from their professional accumulations related to BMT field, contributed intensely to development and translation of the scientific contents; mainly the training topics, training supplements (selection of visual material, case studies, etc.), and topic-based questions for self-assessment tool within web portal. They also took major part in needs assessment phase in terms of development of survey content, distribution of surveys, guiding interpretation of survey results, and selection of e-training courses. They also actively participated in dissemination of project output through national and international organizations and pilot studies. Although there were many common tasks performed by each scientific partners, there were also specific roles played by each partner. P2, as the scientific leader of the project group, undertake effective leadership activities in survey development, scientific content and question bank development, audiovisual (video-clips) material development starting from the determination of the format to the performance of final checks.

P4, as being specialized in adult hematology, contributed to project in a unique way by providing an insight on common points in treatment of adult and pediatric bone marrow transplantation patients. P4 also contributed to the scientific content by integrating an adult patient treatment perspective, which in return helped construction of links between our pediatric-focused project and the neighbor fields such as adult hematology. P5, the last but one of the most contributing partners, performed a very critical task that was dissemination of project outputs within Europe. In addition to devoted efforts of P5 in material development, it has also participated in several national and international congresses, workshops, and vocational meetings with organizer/manager title through which he engaged dissemination activities such as oral and poster presentations and project-specific introductory session.

The technical partners (P1 Hemosoft; P3 eScience Institute) contributed intensely to the development of infrastructure for e-training web portal. P1, as the coordinator of the project, performed management, coordination and quality control related tasks provide compatibility of the project outputs. P1 also constructed the infrastructure for e-training web portal including the feedback and self-assessment tools. P3 provided know-how regarding the contemporary e-learning technologies. P3 also contributed intensely to design, implementation, analysis, interpretation and reporting of the needs analysis surveys. Furthermore, P3 provided assistance regarding the coordination of external review of the content. Both technical partners engaged in translation and editorial tasks.

In addition to formal project partners' contributions to the project outcomes, there were also outside collaborators of the project group. Within the content of outside collaborations, four different experts from different organizations and countries invested intellectual effort to the project outputs. One of them was a venerable professor from Charite University in Berlin, Prof. Dr. Wolfram Ebell. Prof Dr. Wolfram Ebell contributed our project in several ways starting from increasing the motivation of the project group with his constructive criticism regarding the scientific content. Moreover, he contributed to the content development with his substantial field experience and shared his medical photograph achieve which was very helpful for our scientific team in enrichment of the developed material with the visuals. The second person was pediatric BMT nurse, Eugenia Trigoso from pediatric Hematology Unit of Hospital La Fe in Valencia Spain and also a prestigious member of EBMT. The other collaborator was Dr. Betül Tavi from pediatric BMT Unit of Ankara University Children Diseases and Health Hematology Oncology Hospital in Turkey. The last collaborator was Psychologist Seda Begli from pediatric BMT Unit of Ankara University Children Diseases and Health Hematology Oncology Hospital. We also collaborated with many valuable experts for editorial task in English to whom we referred in the respective chapters.

5. Plans for the Future

The formal project implementation period ended, thus our project group's future plans focuses only on sustainability, dissemination and valorization of the project value and outputs.

In the immediate post-project implementation period, all of the partners will continue to disseminate short-term results through enrichment of the e-training content, enlarging the content to a broader range of target group (pediatric and adult oncology/hematology nurses, physicians, patient families) with broader range of languages such as Russian, French, Dutch and Slovak. To achieve this effectively, the coordinator partner Hemosoft will be responsible for maintenance and update of the bmtcare web portal. In order to enhance short-term impact, we planned to keep bmtcare web portal available free-of-charge for all interested parties.

One of the most effective dissemination results of the project would be establishment of a network of users through registration of pediatric BMT nurses from all across Europe to the project web portal. These individuals would be able to actively take part in development of new scientific material, provide feedback on already created content and start a series of discussions in the forum area. The "nurse cafe" forum area of the web portal that created enthusiasm on the part of the nurses during dissemination and pilot studies has the potential to connect many users across Europe which may help develop a better common understanding. To initiate this, partners will continue to visit their counterparts/colleagues to introduce the project output and secure their registration to the portal during the post-project period.

During the final meeting, partners agreed upon granting free access to users. Downloading and printing e-training material will be permitted, considering that there may be no access to internet and PCs within the work environment of the target group. However there will be a warning against copying and using the material without referring to the authors and the project group. Following the establishment of certification mechanism within the portal, partners will sign a contract on intellectual property and copyrights to preserve rights of the authors and to prevent unauthorized use.

The below dissemination and sustainability strategies will be implemented:

- The produced e-training material will be proposed for integration to JACIE (The Joint Accreditation Committee-ISCT (Europe) & EBMT) accreditation program. With that purpose, the project team has made formal attempts to start a negotiation..
- Regardless of the result of the application made to JACIE, the certificates will be provided on behalf of the project group to those who complete the courses. The certificates will be on either personal or institutional basis and a reasonable price will be set for the certificates. The experts from the scientific team who are also JACIE inspectors agreed on that the personnel of the centers that applied for the JACIE accreditation are in need of organizations that provide training and certification required for JACIE accreditation. The planned certification system would address this need.

As an important long-term plan, "nurse cafe" forum area within the web portal is planned to be kept dynamic through application of strategies such as selecting the "the most active user of the month/year" and rewarding these users. Financial resources are planned to be found through banner advertisements and certification fees. Successful implementation of financing plans would also provide opportunity for creation of new promotion strategies. Among the

new promotion methods, oral presentation or stand opening in international or local BMT congresses, giving advertisement to the publications in the field of BMT, increasing the density of the communications with nursing associations, private and public institutions take place. In addition to afore mentioned long-term strategies, collaborations are planned to be made with pharmacology/medical firms who have access to wider network of target group.

In addition, all of the project partners mentioned their willingness to be part of future collaboration opportunities around similar project themes. Accordingly, the idea of submission of extension project proposals to European grant programmes in the future are under evaluation of the project partners.

6. Contribution to EU policies

The theme of the project supports, if not directly falls under several priority areas of the Millennium Development Goals of the United Nations; namely reducing child mortality rate, combating HIV/AIDS, malaria, and **other diseases**, and developing a global partnership for development. As far as the European Union's priority areas are concerned, the project theme complies with EU policies such as "creating prosperity in a knowledge-intensive society" as well as the Communication adopted by the Commission on March 31st, 2010 on "EU Role in Global Health". It can also be asserted that the current project also adheres to the Treaty of Lisbon as it complies with the Treaty's provisions on **public health** which aim at boosting the Union's ability to respond to threats to the security of European citizens.

From the public health perspective, the contribution of the project to the above-mentioned policies mainly stems from the fact that BMT method can be employed in treatment of several pathological diseases varying from cancer and non-cancer blood diseases to metabolic, immunological, and neurodegenerative diseases and that such project themes have the potential to contribute to the well-being and life quality of patients who have received BMT treatment in the long-term.

From the knowledge-intensive society perspective, the contribution of the project is mainly due to the fact that this project falls under European Commission's Lifelong Learning, Leonardo da Vinci Programme, and aims at using of ICT and e-learning methods to benefit a certain group of professionals, which makes it a good example for a tool aiming at creating prosperity in a knowledge-intensive society. In relation to these aspects of European Commission's Lifelong Learning, Leonardo da Vinci Programme, our project suggest a practical solution to fill the gap in the area of training of BMT nurses. The proposed and implemented e-training web portal, www.bmtcare.com, is an innovative e-learning system, within which self-evaluation and directing tools take place. These innovative tools can be interpreted as an example to ICT applications.