Supporting Blood-Bank Personnel introductory and continuous Education

B. Spyropoulos*, M. Sigala, M. Igoumenidis, P. Spyropoulou, A. Kolokytha, C. Alepi, I. Haliori, M. Mylona, K. Tsalafouti, L. Dadiotis

*Technological Education Institution of Athens, Medical Instrumentation Technology Department, Athens, Greece. General Regional Hospital of Piraeus “Tzaneion”, Blood-Bank, Piraeus, Greece.
Continuous education in Blood Bank

- Freshly engaged Blood Bank personnel need introductory training, in order to be integrated efficiently into the existing organizational structure.

- On the other hand, the remarkable advances in Molecular Biology and Biomedical Technology require the arrangement of continuous education to keep the personnel up to date, especially in the very responsible field of Transfusion Medicine.

- This presentation concerns primarily technical and managerial aspects of the job, and endeavors to accustom the new employees to their particular activities or the senior personnel to new tasks.
The main settings of the problem

- On-line educational means, developed for a specific Blood Bank, could minimize the necessary time of both, the trainees and the instructors.

- The modern Blood Bank consists of several functional units, which contribute to the achievement of the common goals, which are set for the entire Department.

- However, they maintain a relative autonomy and perform unique roles, starting from Volunteer Donors Recruitment up to the prevention of viral infections.
Theoretical, methodological, and technical-managerial issues

Further, each unit, on the one hand, adopts similar methodological approaches to its function, but on the other, it informs these approaches with the corresponding concrete content peculiar to its scope.

In order to achieve the synthesis of the technical-managerial subject matter, to the theoretical and methodological issues, we have developed an HTML based training system, supporting following activities:
Supported Activities in the Blood Bank

- Volunteer Donors Recruitment.
- Blood Donation.
- In site Transfusion.
- Blood Serology.
- Screening for Infectious Diseases.
- Hematology Laboratory.
- Blood Bank and Haematology Equipment
- Abnormal Hemoglobin Screening.
- Patient Records & Statistics.
- Other useful Information.
Volunteer Donors Recruitment - Blood Donation

Important Forms

Steps Description
In site Transfusion
Blood Processing and Conservation
Blood Serology
Screening for Infectious Diseases
Hematology Laboratory
Blood Bank and Haematology Equipment

Coulter Counter

Flow Cytometry

Polarized Immunofluorescence

Haemapheresis
Abnormal Hemoglobin Screening
Quality Assurance, Patient Records and Statistics
Other useful Information

ASH Educational Materials - Topic List

- About the AABB
- What’s New
- To Join the AABB
- Member Section
- Facts about Blood
- Donating Blood
- Receiving Blood
- Of Interest to Medical Professionals
- Education/Training
- AABB Store
- Subscription Services
- National Blood Foundation
- Related Pages
- Products and Services
- Guestbook

Useful links to relevant Web Sites

Information about other Hospital Departments and Clinics

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The structure of the system

- The developed information system is loaded on the Blood Bank Intranet, allowing easy access, even during the routine work of the personnel, if necessary.

- The system is composed in Greek and partially also in English language.

- Further, the system, is also located on a controlled-access Web-site, and, thus, allows for admittance to users from other Hospital Departments and from Blood Banks staff of different Hospitals.

- Finally, some additional related topics of general interest, are unconstrained accessible.
Methodology

- The system provides a series of structured on-line courses, which concern educational needs deriving out of the material conditions, the implementation of methods and equipment, and the management of the infra-structure, in the elementary units of the “Tzaneion” Hospital Blood Bank.

- Common commercial formats are used for the text, graphics, audio and video components of the system, optimizing the accessibility of the system. Numerous references and links to specialized relevant sites are also provided.
Hypertext and Multimedia courseware

- Hypertext and Multimedia courseware are gaining importance in University education.
- Transforming conventional lectures or textbook material into an electronic format, offers limited benefits.
- Thus, the structure and the content of a course should be changed in order to take advantage of the technology.
- HTML-based teaching tools interact both with teachers and students and they may influence our understanding of the scientific subject matter under consideration.
Conclusions

- The developed system supports the trainee to perceive the subject matter under consideration.
- Further, it releases partially the trainers, and offers them more time to interact substantively with the individual junior colleague.