

Project “Osteosynthesis for Surgical Management of Fractures for Orthopedic Surgeons and Biomedical Engineers”

16-17 October 2014

DOS, Larissa, Greece

Minutes of the project meeting

**Participants:**

Zoe Dailiana (DOS)  
Konstantinos Malizos (DOS)  
Sokratis Varitimidis (DOS)  
Dimitrios Matsoukas (DOS)  
Sokratis Varitimidis (DOS)  
Dimitrios Lamprou (DOS)  
Konstantinos Bargiotas (DOS)  
Michlis Hantes (DOS)  
Theofanis Moraitis (DOS)  
Keti Tokmakova (MUP)  
Petar Molchovski (MUP)  
Juan Gómez (IBV)  
Slavka Tzanova (TUS)  
Yavor Djenkov (TUS)  
Nikolay Kurtev (TUS)  
Evgenia Dimitrova (NSA – external evaluator)

**Agenda :**

**16 October**

- Welcome, opening of the meeting by the chairman of DOS prof. Malizos,
- WP1 Management, Interim report
- WP1 Management, Financial report.
- Check of reporting documents of all partners
- Visit of the Department of Orthopaedic Surgery

**17 October**

- WP2 Need Analysis. Report on: Need analysis of engineers and residents and orthopaedic surgeons. Definition of learning outcomes
- WP3 eLearning materials adaptation. The contents adapted and translated and the learning environment developed/adapted by IBV.
- WP4 Evaluation and pilot test. Oral evaluation report. Planning the pilot test
- WP5 Dissemination. Reporting the activities for the first year
- Future work on WP3 to WP6
- Planning of the next meetings

**16 October**

*Opening*

The meeting started with welcome opening of the meeting by the chairman of DOS prof. Malizos, a presentation of the department research and surgical practices and presentation of the doctors from the department.

## *WP1. Management*

An overview of the tasks from the ToDo list from the previous meeting was done. Overview of the tasks and deliverables for the interim report was made by Slavka Tzanova. All deliverables are ready on time except the Competence matrix which is to be corrected by the doctors. The tables with the dissemination activities of each partner were filled out during the meeting with the help of each partner.

The project co-ordinator checked all financial reports and documents with each partner. The declarations for TVA were provided by all partners and they filled the Annex 1 with the rules for reimbursement of travel and subsistence costs and the staff costs calculation in each organisation. The financial tables of IBV were not ready and the timesheets should be sent by e-mail the next week. Dr. Tokmakova brought the originals of the documents and she will send the copies to the coordinator during the next week. In a total, more than 70% of the first advance have been spent by the consortium.

*Visit of the hospital:* There was a visit of the orthopaedic clinics at the medical University organised by the host partners with the different clinic cases in the different departments organised by the doctors of DOS and later, a visit of the research and training laboratories in the University campus was done by Dr. Dailiana.

## **17 October**

### *WP2 Need analysis*

IBV developed a questionnaire for the survey and the need analysis reports by DOS, MUP and TUS were delivered before the end of February 2014 as it was planned. On the meeting, Juan Gómez gave a Word version of the results from the survey. During the meeting the Competence matrix was improved with more correct (of point of view of the medical terms) definition of learning outcomes for each course by Dr. Dailiana and Dr. Tokmakova.

### *WP3 eLearning materials adaptation*

All course modules were translated and adapted to needs of Bulgarian and Greek partners by DOS, MUP and TUS. The contents should be published on the project Web page in Results section.

The new learning environment on the server of IBV was developed because of possible intellectual properties problems with the partners from the previous project. It is ready with the English versions of the courses, the practice and the tests. There are still some problems with the pdf content in the Explorer. The courses in Bulgarian and Greek are to be uploaded.

URL: <http://campus.ibv.org/>

Username: juango

Password: orthobiomed

### *WP4 Evaluation*

A design walkthrough of the e-learning environment was done with the participation of target users of courses – residents and doctors from DOS.

Only the English versions of the courses were available on the Web. There were problems with the visibility of pdf files in Windows Explorer on some computers. The problem could be due to some protections of the computer and it was decided that the system officers at TUS would try to fix the problem.

The external evaluator of the project, prof. Evgenia Dimitrova, made an oral report on the evaluation of the first project year. The need analysis was performed by all partners and reports were delivered on time. Some difficulties were observed with the definition of learning outcomes but with the examples provided by TUS the outcomes for each course were defined. The survey results were presented in Excel format, which is not convenient for reporting and summarising the results. Therefore, it had to be presented in Word format. All contents were adapted and translated in Bulgarian and some in Greek (because only these modules were needed in Greek and the others could be used in English or they are for engineering purposes, not for medical) and the learning environment is ready with the English versions of the course. The practical content and the self-evaluation tests are very good.

#### *WP4 Evaluation and **pilot test***

The pilot test is planned to start in January after the Christmas holidays and should end on 31 March 2015. At least 5 residents, doctors and engineers should take part from each of the three partner institutions: MUP, DOS and TUS. It was discussed that some students could participate also but as the content is on a very high level, only students with specific interests in biomechanics and its use in orthopaedics could be involved. From TUS they could be bachelors in bioengineering.

#### *WP5 Dissemination*

Many dissemination activities were reported. The project Web page is ready with tables where all results are being published (<http://telearn.tu-sofia.bg/OrthoBioMed/index.php>), the presentations during the project meetings and the minutes of the meetings as well.

There are Web pages in Greek on the DOS server (<http://www.uth.gr/genannounce/2109-20140318-orthobiomed>) and in Spanish on the IBV's server (<http://orthobiomed.ibv.org>) and for the meeting in Valencia in Spanish: [http://www.ibv.org/es/noticias-actualidad/show\\_new/76/4516](http://www.ibv.org/es/noticias-actualidad/show_new/76/4516) and in English:

[http://www.ibv.org/es/noticias-actualidad/show\\_new/76/4517](http://www.ibv.org/es/noticias-actualidad/show_new/76/4517).

IBV has published also special news for the project activities as well:

[http://tecnologia-sanitaria.ibv.org/index.php/es/proyecto/show\\_proyect/10/347](http://tecnologia-sanitaria.ibv.org/index.php/es/proyecto/show_proyect/10/347)

News item in the Interempresas web are published as well. Interempresas is an association of medical and hospital equipment:

<http://www.interempresas.net/Medico-hospitalario/Articulos/114089-El-IBV-participara-en-3-nuevos-proyectos-de-formacion-financiados-por-la-Comision-Europea.html>

On 17/10/2014 during the project meeting, there was a publication in a Larissa's newspaper on the project and the collaboration of the four institutions from Bulgaria, Greece and Spain within the Leonardo da Vinci programme. It was also published in the electronic newspaper on 15/10/2014

(<http://www.eleftheria.gr/index.asp?cat=27&aid=81841#.VEQO2L7tUmk>)

Dr. Dailiana made three publications on the following conferences:

1. IVth National Conference of Bulgarian Society for Surgery of the Hand with International Participation, Veliko Tarnovo, Bulgaria, April 24-27, 2014

“Minimal Plates and Screws for Hand Fractures”, Z. Dailiana, D. Agorastakis, S. Varitimidis, K. Tokmakova, P. Molchovski, S. Tzanova, K. N. Malizos.

2. EFSSM XIIth Congress (Congress of the European federation of societies for microsurgery), Barcelona, Spain, April 3-5, 2014.

“Gunshot Injury of a Forearm and Radius-Staged Reconstruction”, Z. Dailiana; C. Malizos

3. XIXth FESSH Meeting (Meeting of the Federation of European societies for surgery of the hand), Paris, France, June 18-21, 2014

“Volar Plating of Distal Radius Fractures (Ao:B3,C1,C2,C3). Multivariant Analysis. 4 To 10 Years Follow-Up”. I. Antoniou, Z. Dailiana, A. Drakos, V. Kontogeorgakos, K. Malizos, S. Varitimidis

Dr. Tokmakova and Dr. Molchovski disseminated the project results on three congresses/conferences in Europe:

1. IVth National Conference of Bulgarian Society for Surgery of the Hand with International Participation, Veliko Tarnovo, Bulgaria, April 24-27, 2014

“E-learning Approach to Biomechanics of Osteosynthesis”. K. Tokmakova, P. Molchovski, M. Tokmakova, Z. Dailiana, S. Tzanova.

2. XIXth FESSH Meeting (Meeting of the Federation of European societies for surgery of the hand), Paris, France, June 18-21, 2014

“Endoscopic Capral Tunnel Release – Clinical Results in Haemodialysis Patients”. K. Tokmakova, P. Molchovski

3. 13th International Academic Conference of IISES, Antibes, Côte d'Azur, France, 15 -18 September 2014

“Osteosynthesis for Surgical Management of Fractures – An E-learning Approach to Education and Training in Biomechanics”

Authors: Petar Molchovski, Keti Tokmakova, Mariya Tokmakova

*Future work on WP3 to WP6. Next meeting,*

*To do list:*

1. *WP1:* To send to Slavka all missing documents for the interim report until 23/10/2014.
2. *WP3:* The e-learning courses in Greek and Bulgarian should be ready on the e-learning platform until 23/12/2014.
3. *WP4:* To perform the pilot test from January to the end of March 2015 with at least 5 people from each partner institution (TUS, MUP, DOS) – IBV will create accounts for the users in the beginning of January.
4. *WP6:* To start the exploitation – field trial in April-May. To be discussed in details during the next meeting.
5. *WP5:* To continue with the dissemination activities.

*Next meeting: 14-15 May 2015 in Valencia*