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Implementation and conducting classes of SBL/SM cases from Dnipro State University of Internal Affairs

Report from Responsible author:
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**Dnipro State University of Internal Affairs
is a member of the international consortium of
the project**

**«Simulation medicine and Scenario-based
learning for emergency care»**

SimS





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The purpose of participation in the SimS Project is to improve training in providing emergency care to victims at the scene of an incident by implementing training courses integrated into a virtual learning environment using the OpenLabyrinth scenario learning methodology and simulation technologies.

Objective: development of a unified virtual scenario-based environment system for continuous training of police officers in pre-medical assistance and tactical medicine based on studying the appropriate algorithms.





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Educational Virtual Environment: SBL + SM.

Here is the list of the 6th scenarios we have build and uploaded:

P1 First aid in case of sudden circulatory arrest in adults, psychological aspects of care

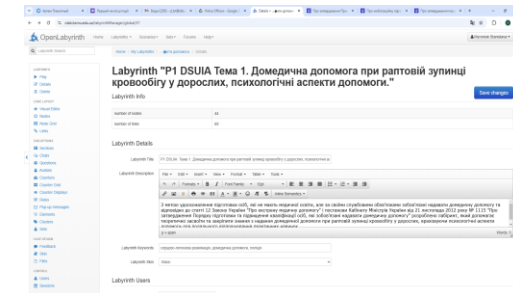
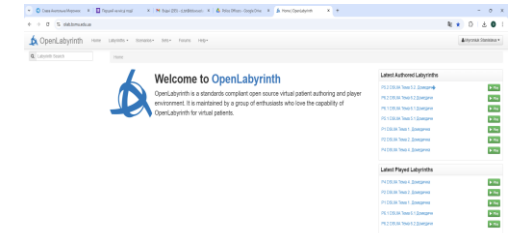
P2 First Aid for Sudden Circulatory Arrest in Children, Psychological Aspects of Assistance

P4 Pre-Medical Aid for Massive External Bleeding, Psychological Aspects of Assistance

P5.2 Pre-medical care for chest and abdominal injuries, psychological aspects of care (Abdominal injuries)

P6.1 First aid for head, spine, limb, and pelvic injuries, psychological aspects of care (spinal injuries, limb, and pelvic fractures)

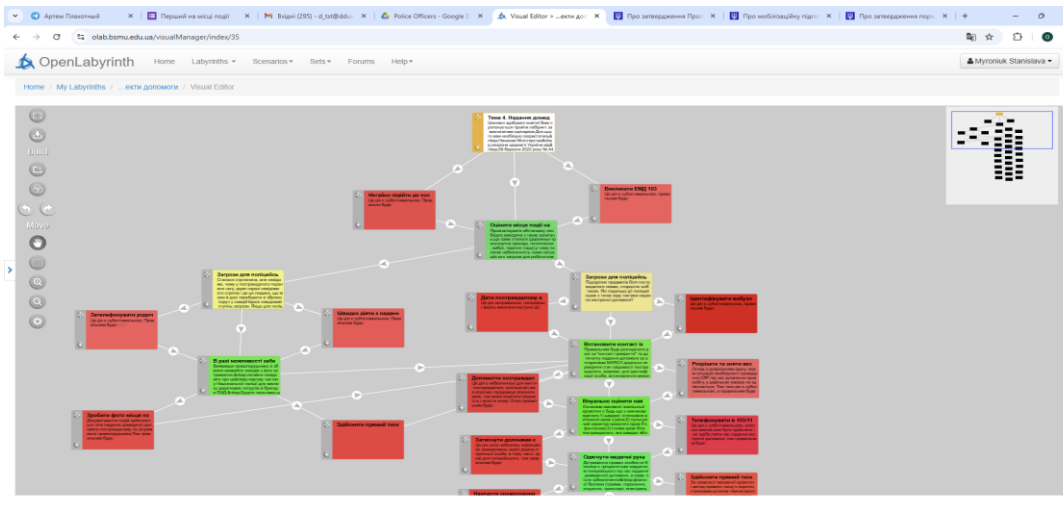
P6.2 DSUIA Topic 6.2 Domedical care for head, spine, limb and pelvic injuries, psychological aspects of care (spinal and head injuries)





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The scenarios in OpenLabyrinth were tested among the scientific and pedagogical staff and higher education students, after which they were submitted for review to the project partners and the coordinator (in Ukrainian and English)



Домедична допомога при травмі голови, хребта, кісток кінцівок та тазу, психологічні аспекти допомоги (травми кінцівок та тазу)

Травма голови /Черепно-мозгова травма - це невіддільний стан вишколюваної травмою голови, в тому числі з ознаками пошкодження головного мозку, незалежно від механізму травми.

Ознаки травми голови:

- 1) рави, синці в області голови та обличчя;
- 2) спунтаність або втрата свідомості з або без везніз;
- 3) сильний біль або відчуття тиску в голові, ший;
- 4) пошкодження або втрата чутливості в пальцях рук та ніг;
- 5) втрата рухових функцій кінцівок;
- 6) деформація в області голови;
- 7) судороги;
- 8) патологічні дихання;
- 9) порушення зору;
- 10) нудота та/або блювота;
- 11) стійкий головний біль;
- 12) виділення крові та/або лавору (прозора рідина) з носової порожнини та/або вух.

Травму голови слід підрозділяти за таких обставин:

- 1) падіння з висоти;
- 2) стрибки у воду;
- 3) сильний удар по тупобуду;
- 4) дорожньо-транспортні пригоди;
- 5) ураження блискавкою;
- 6) ураження електричним струмом;
- 7) вибухова травма.

Последність дій при наданні домедичної допомоги постраждалим при підозрі на травму голови:

<https://zakon.rada.gov.ua/laws/show/z0356-22#n397>

Автори - тренери з ДМД доценти кафедри ТСП ДДУВС к.ю.н. доцент Мислива Олена к.ю.н. доцент Миронюк Станіслав

Вашій увазі пропонується лабиринт з навіації домедичної допомоги, розроблені за підтримки проекту Erasmus+ SimS «Симуляційна медицина та сценарно-орієнтоване навчання з надання медичної допомоги» (Simulation medicine and Scenario-based learning for emergency care), який спонсорується Європейською Комісією за Програмою розвитку потенціалу у сфері вищої освіти.

Під час артилерійського обстрілу, снаряд потрапив у будівлю, від поривної хвилі вибуховою виірвало великий шмат бетону, який пролетів поруч із головою жінки вколом приблизно





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University staff underwent training on the use of the OpenLabyrinth platform





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A newly equipped specialized training ground "Center for Pre-Medical Assistance"





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Technological multimedia and simulation medical and non-medical equipment





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To ensure the methodological support of training under the Erasmus+ project "Simulation medicine and Scenario-based learning for emergency care" (SimS), the Program of the optional course "First on the Scene" was developed.

Tests to assess the quality of knowledge on emergency assistance algorithms for victims at the scene were conducted before and after the training.

The purpose of the elective course is to acquire a set of theoretical knowledge and practical skills for assessing the condition of victims, handling them at the scene while ensuring personal safety, and performing basic life-saving manipulations to save people's lives and prevent negative consequences for their health using a minimum set of devices included in an individual first-aid kit, or in their partial or complete absence, as well as the formation of responsibility and readiness to provide first-aid assistance to victims who are in an emergency

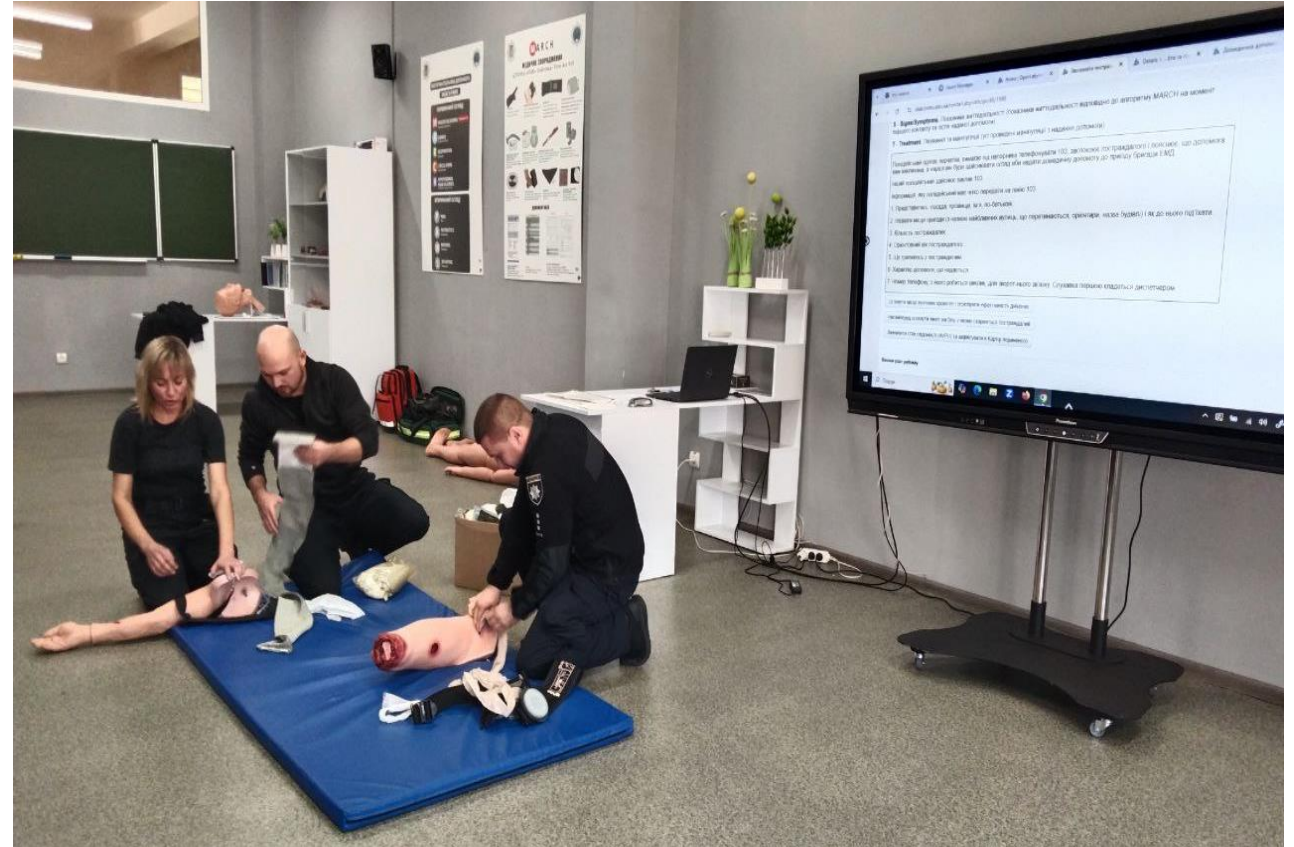


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At the Medical Care Center of univercity, two groups of practical officers of the patrol police of the Dnipropetrovsk, Zaporizhia and Poltava regions of the National Police of Ukraine, totaling 50 people, attended optional classes during the week from :

- 10/18/2024 to 11/08/2024;**
- 12/02/2024 to 12/06/2024.**



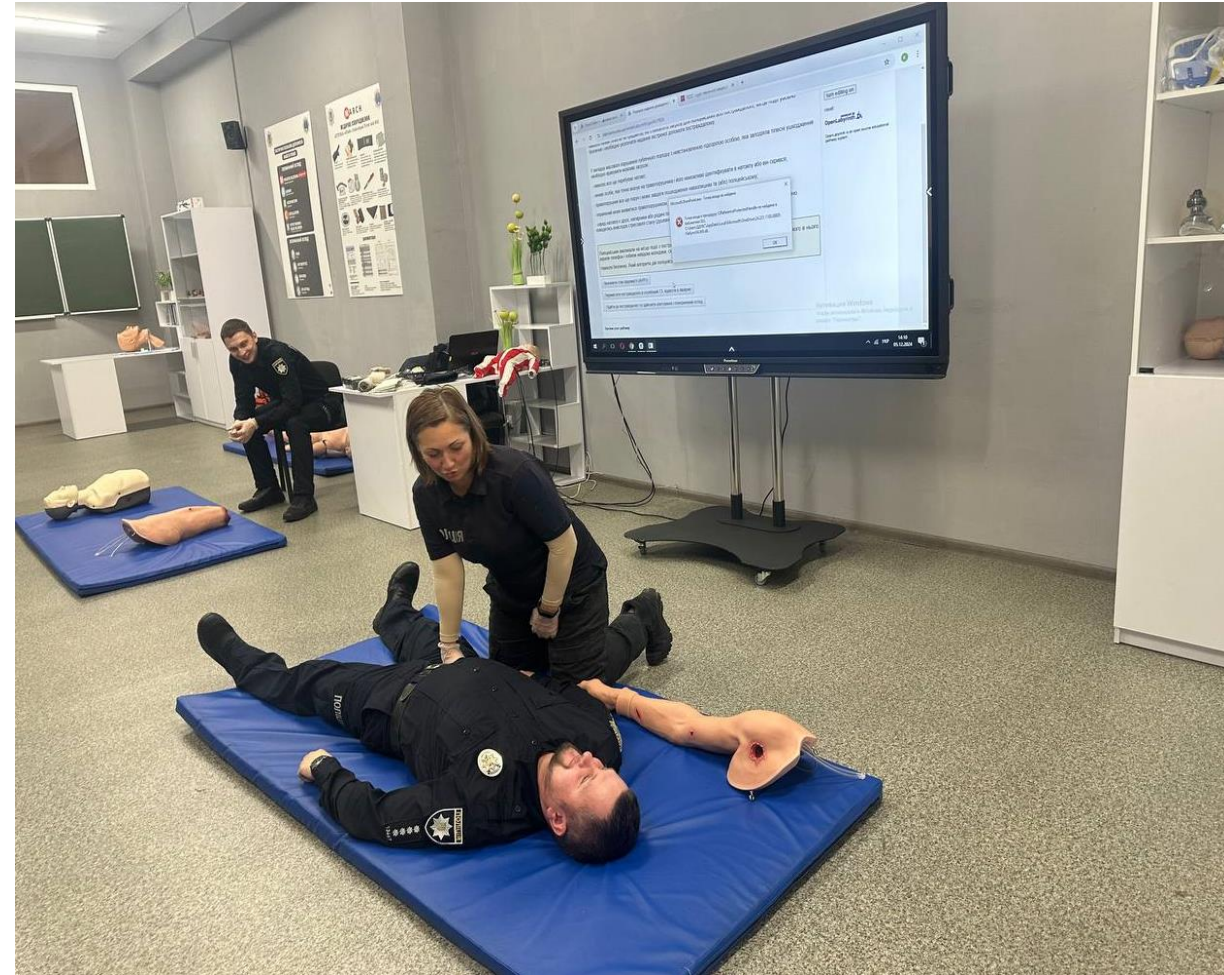


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Their training included:

- 1. Independent theoretical study of the material in a distance format thanks to cases developed for police officers on the Open Labyrinths platform with scenarios.**
- 2. Practical practice of cases at the training grounds of the Center for First Aid of DSUIA**



Scenario-based training and simulation medicine in action: participants had the opportunity, under the guidance of instructors, to practice independently, improving their rapid response skills to various emergencies. These included assessing the condition of victims and providing pre-medical assistance, as well as psychological support





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Practical training of "First on the Scene" scenarios by practical police officers with instructors from Dnipro State University of Internal Affairs





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Analysis of the effectiveness of training in the Project based on the results of testing (50 questions) of the first and second groups of police officers

Input testing	Number of people	Exit testing	Number of people
40-49 scores	1 person	40-49 scores	-
50-59 scores	7 persons	50-59 scores	-
60-69 scores	7 persons	60-69 scores	3 persons
70-79 scores	8 persons	70-79 scores	15 persons
80-89 scores	2 persons	80-89 scores	7 persons
over 90 scores	-	over 90 scores	-
Average score	64	Average score	75

Input testing	Number of people	Exit testing	Number of people
40-49 scores		40-49 scores	-
50-59 scores		50-59 scores	-
60-69 scores		60-69 scores	-
70-79 scores		70-79 scores	1 person
80-89 scores		80-89 scores	20 persons
over 90 scores	-	over 90 scores	4 persons
Average score		Average score	84



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An analysis of the training effectiveness in the project, based on testing results, demonstrated that after mastering the material using the scenario-based learning methodology and the capabilities of OpenLabyrinth, the level of knowledge and skills improved, indicating the high effectiveness of this type of training.





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As part of the project, questionnaires for pre- and post-surveys were developed to assess the participants' satisfaction level and the practical effectiveness of training through case studies in OpenLabyrinth during the implementation of the Erasmus+ project "Simulation medicine and Scenario-based learning for emergency care" (SimS).

Перший на місці події

Смс опитувальник учасникам курсу.

Дякуємо за участь у нашому навчальному курсі з домедичної допомоги «Перший на місці події»!

Ваш відгук є дуже цінним для нас для покращення курсу. Будь ласка, приділіть кілька хвилин, щоб заповнити цю анкету. Ваші відповіді є конфіденційними й будуть використані лише для аналізу даних щодо курсу.

okanam24@gmail.com [Switch account](#)

Not shared

* Indicates required question

Ваша електронна адреса

Your answer

1.1. Вкажіть, на якому курсі ви навчаєтесь *

1-й курс

2-й курс

3-й курс

4-й курс

5-й курс

6-й курс

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The aim of the study was to determine the level of satisfaction of students of the optional first aid course " First on the Scene" with: - the quality of the classes; - the professional level of the teachers. The survey results show that:

1) 90% are satisfied with the course "First on the Scene"

2) the level of knowledge and skills after completing the course as a whole is 97.5%:

High level	18 (45%)
Above average	17 (42,5%)
Average level	4 (10%)
Basic level	1 (2,5%)





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The training course met the stated goals and objectives - 90% overall

The course was relevant and useful for your professional work - 97.5%

When asked what they liked most about the course, respondents noted:

- non-standard presentation of information (easy perception of case material);**
- professional and accessible presentation of information;**
- practical classes, etc.**