



DARE
DIGITAL LIFELONG PREVENTION

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**Intermediate update on the
educational and training plans**

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SP1.D6.3 Intermediate update on the educational and training plans

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Publishable summary

The deliverable 6.3 "Intermediate update on the educational and training plans" composed by Task 6.3 "Enhancing and supporting human resources" has been developed in the direction of delivering advanced training activities specifically addressed to newly hired and DARE workforce, through the following training activities: Summer School on Digital Prevention; Seminars on the technological and ethical aspects of digital prevention; Good clinical practice workshop; Re-train-Me programme (ICS-C).

1. Enhancing and supporting human resources

Task 6.3 “Enhancing and supporting human resources” is being developed in the direction of delivering advanced training activities mentioned in Task 6.1 “Establishing Education, Research and Career Pathways” and Task 6.2 “Professional retraining and advanced training courses”, specifically addressed to newly hired and DARE workforce. Herein the listed education and training activities are presented

- Summer School on Digital Prevention;
- Seminars on the technological and ethical aspects of digital prevention;
- Good clinical practice workshop;
- Re-train-Me programme (ICS-C).

1.1. Summer School on Digital Prevention

The DARE Summer School 2024 titled “Co-design of digital preventive technologies” was delivered online from July 29th to July 31st, 2024, through the LearnFlix platform and was attended by approximately 60 people and 20 speakers from Spokes 1-2-3. The DARE Online Summer School 2024 combined the topics of digital technologies and preventive healthcare to improve disease prevention, intervention monitoring, and personalised healthcare, thus supporting the transition to sustainable healthcare.

This initiative offered networking opportunities to the DARE workforce, newly hired and early-career researchers, healthcare partner organisations, and other interested professionals.

The program included:

- Specific topics of SP 1-2-3;
- Needs and challenges of primary, secondary and tertiary prevention;
- Data-driven approach and data management in healthcare;
- Interdisciplinary talks about legal and ethical challenges, certification of medical device software, and clinical translation of technologies.

The Summer School has been structured in:

- Morning sessions (from 9:00 to 12:30), with thematic speeches led by the principal investigators and experts in the field aimed at educating/informing on specific topics listed in the attached program and addressed to all those involved in the DARE project;
- Afternoon sessions (from 14:00 to 16:00), Hackathon “Health Challengers” with group work dedicated to young researchers and PhD students involved in DARE who will work to identify possible technological solutions to critical issues that emerged from the pilot projects.

The participants in the hackathon afternoon sessions were mainly young DARE researchers who presented a group project devising inventive solutions to complex problems and highlighting the critical areas on which the DARE project should focus. These participants were awarded an open badge certified by My Open Badge.

The full program of the initiative is available at:

<https://www.fondazionezare.it/it/programma-dare-summer-school-2024/>

1.2. Seminars on the technological and ethical aspects of digital prevention

In the last year, the DARE seminar offer has intensified. A detailed list of the seminars and workshops can be found on the Dare Foundation website¹. From October 2024 to May 2025, we offered 27 seminars that covered disparate topics linked to digital prevention or related methodological aspects. We are working to ensure a sustained offer for the remainder of the project, but one particular course is worth mentioning.

In collaboration with Spoke 1 DARE WP2, the team in WP6 worked at the design of “Ethic and legislation in clinical research: from the idea to the experimentation”, a cycle of seminars on the ethical and legal aspects of clinical experimentation which will be delivered from September 16th to October 21st 2025.

The course includes six lessons of two hours each and will be free and accessible to everyone, but specifically directed to researchers and PhD students. The classes will be delivered in Italian and online through the Microsoft Teams platform. The faculty, from the University of Bologna, will deliver the following classes:

- Clinical experimentation with devices: ethical and regulatory aspects
- Why ethics in clinical research? Fundamental concepts, critical cases and problematic boundaries
- Ethics committees in Italy: evolving guiding principles, functions, themes
- The processing of personal data and scientific research
- The regulatory system of drugs and medical devices in clinical experimentation
- Towards the correct use of clinical data for biomedical research

¹ <https://www.fondazionezare.it/en/calendario-formazione/>

1.3. Good clinical practice workshop

The Advances Learning Course “Good Clinical Practice (GxP)” has been delivered in collaboration with Arithmos srl. More in depth, the work of WP6 focused on the definition of the most efficient learning approach and delivery method as well as on the structure of the course and syllabus. The course design was made among the faculty members who decided to deliver theoretical lectures online through Microsoft Teams tool and deliver practical exercises with group work in person at the Department of Statistical Sciences of the University of Bologna.

The first edition of the course was delivered from October 11th and ended on December 6th, 2025, in a blended modality. It registered 18 participants, 4 of whom were graduates and 14 last-year students. At the end of the course, participants were required to take a test whose passing led to the delivery of Open Badges. The final test took place on December 6th. Both materials and Open Badges have been made available through the platform LearnFlix. Together with a survey to collect impressions and suggestions to improve possible following editions, a call for two internship positions at Arithmos Srl has been shared with all participants and addressed to those who completed their degrees and passed the final test. Arithmos Srl will evaluate the criteria and select the applicants. A second edition of the Advances Learning Course “Good Clinical Practice (GxP)” has been delivered following the same modalities of the first edition. It registered 24 participants, all of whom were last-year students. The course took place from January 31st to March 28th, and the test took place on April 4th.

The program of the course is available at:

<https://arithmostech.com/corso-alta-formazione-gxp/>

<https://www.fondazionezare.it/it/corso-pratico-di-alta-formazione-arithmos-2024/>

1.4. Re-train-Me programme (ICS-C)

WP6 supported the ICS-C Foundation in the design and delivery of the RE-TRAIN-ME program, whose aim was to provide post-degree training in biomedical computing to people with a master's degree in math, physics, chemistry, biology, engineering, etc. but no specific training in biomedical computing. For its first part, the program was designed for a maximum number of thirty-six (36) participants, half of whom were admitted to the second part of the program, and received the full programme certificate, while the others received an attendance certificate.

The initiative started a collaboration between the DARE Foundation and the ICS-C Foundation. WP6 is now engaged in a working group to develop an online educational infrastructure dedicated to the training offer of PNC and PNRR projects in collaboration with the National Supercomputing Centre ICS-C.

The program of the initiative is available at:

<https://agenda.supercomputing-icsc.it/event/9/>

2. Educational platform and certifications

The design and the implementation of the education, research, and career pathways have taken into account blended delivery systems through a specific learning environment called “LearningFlix” provided by partner BI-REX. Specific didactic multimedia approaches dedicated to adult education have been adopted that include innovative teaching strategies involving collaborative learning, for example, debates, case studies, simulations and live interaction with learners. These pathways were certified through the ECTS system and open badges for shorter courses that can be shared, portable and combined into larger Credentials have been provided. ECM credits can be provided where appropriate.

Courses and seminars delivered have been recorded, and didactic materials will be available in the private area of the DARE website that is being designed.