



COMMUNICATION AND DISSEMINATION REPORT FOR 2020-2022

Prepared by WG4 Date: October 2022

This report covers the activities of CA19132 “European Network to Advance Best practices and technoLogY on medication adherencE (ENABLE) COST action” on communication and dissemination between the years 2020-2022. The activities are explained briefly, item by item, and are a summary of the first two periods.

COMMUNICATION

- Logo and website www.enableadherence.eu
- Social media accounts: ResearchGate, LinkedIn, Instagram
- Dissemination communication plan
- 1 animation targeting the general public
- Newsletters (n=4) <https://enableadherence.eu/newsletter/>
- ENABLE products (notebooks, pens, pins with COST and ENABLE logos)
- Press release: <https://bit.ly/3DWLhR3>

INTERNAL COMMUNICATION

- MC meetings (online and F2F) <https://enableadherence.eu/cost-enable-meetings/>
- CG meetings (online and F2F)
- WG4 routine Wednesday morning meetings (online): As WG4, we have a regular meeting every Wednesday morning at 09.00 CET and evaluate what we need to do on a weekly basis and plan what we need to do in the next three months. This not only allows us to feel a sense of belonging to the project but also to stay in close contact with ENABLE members and makes it easier for us to exchange ideas. It also enables us to make timely decisions regarding dissemination.
- SWOT analysis: As WG4, we have made a SWOT analysis on communication to guide the related activities we will carry out over the next two years. The main conclusions of this analysis are as follows:
 - **Strengths** (Internal to the network):
 - Large network: high number of countries and participants.
 - Multidisciplinary, age and gender balance, participants with high motivation and broad expertise.
 - Close contact among participants to support the transfer of ideas and knowledge.
 - Existing Webpage/Regular newsletter.
 - Very active WG leaders.
 - **Weaknesses** (Internal to the network):
 - Lack of face-to-face interaction among participants.
 - Lack of materials in different languages.

- Lack of budget.
- Lack of time and Inertia among the participants.
- Lack of specialists in communication in the project.
- Underuse of the website.
- **Opportunities** (External to the network):
 - Availability of national and international networks for cooperation in terms of communication and dissemination of COST ENABLE outputs.
 - Reaching a larger audience through commonly used digital platforms.
 - Possibilities for collaboration, meetings and presentations with different professional associations (ESPACOMP, ICPE, ISPOR...).
 - Improving links with patients' organizations.
 - Close relation with digital health strategy.
- **Threats** (External to the network):
 - Pandemic.
 - Lack of awareness, interest and/or knowledge by the population and health professionals.
 - Too much noise in general communication.
 - Risk of lower technology literacy among the elderly.
 - Not well-known medication adherence technologies and too many tools.
- **Implications for the communication and dissemination plan of the COST ENABLE Action:**
 - Considering the combination of strengths and opportunities we can further expand the collaborative activities with the various professional associations with which activities have already been initiated (ESPACOMP, ICPE, ISPOR...), and consolidate a stable relationship with patients' associations
 - To address some of our weaknesses we can work on: the elaboration of materials in different languages of the participating countries, and disseminate them through the web to increase their "traffic", we can also use the website as a repository of teaching materials or scientific dissemination (papers, reports...).
 - To address some of the external threats, we can design training activities for professionals (e.g. training schools), as well as informative activities for professionals, patients and the general public, such as the video we are finishing.

DISSEMINATION

- 26th ESPACOMP Conference 2022 will have a special focus on Adherence and Patient Safety. The congress will be held in a hybrid format in Berlin Germany. Posters accepted:
 - Gaye Hafez, Catherine Goetzinger, Cristina Ghiciuc, Enrica Menditto, Francisca Leiva Fernandez, Maria Dimitrova, Maria Teresa Herdeiro, Virginia Aguiar Leiva, Björn Wettermark. The importance of communication and dissemination in a European project on medication adherence
 - Aarnio E, Kamusheva M, Qvarnström M, Hafez G, Mucherino S, Trečiokiene I, Mihajlović J, Ekenberg M, Leiva-Fernandez F, Potočnjak I. Actions to improve medication adherence during the COVID-19 pandemic in Europe
Ribaut J, Nabergoj Makovec U, Goetzinger C, Barnestein-Fonseca P, Haupenthal F, Herdeiro MT, Jácome C, Roque F, Smits D, Tadic I, Dima AL. Development and evaluation of medication adherence technologies: Generating guidance for ENABLE repository users
- ICPE 2022 (International Congress of Pharmacoepidemiology) was held in Copenhagen Denmark on 24-28 August 2022. There was a dedicated symposium&workshop to ENABLE entitled “Methodological Challenges in Assessing the Impact of Digital Technologies on Patient Adherence” organized by Wettermark B, Ghiciuc C, Van Boven J, Elseviers M, Hafez G, Goetzinger C, Herdeiro MT, Menditto E, Leiva-Fernandez F, Dimitrova M, Kovačević Z, Leiva VA. (see attachment 1) <https://bit.ly/3SDmrOg>
- EHPS 2022 (European Health Psychology Society) Bratislava August 2022. Oral presentation accepted:
 - Dima AL., Goetzinger C, Ribaut J, Barnestein-Fonseca P, Haupenthal F, Herdeiro MT, Grant P, Jácome C, Roque F, Smits D, Tadic I, Nabergoj Makovec U Interdisciplinary consensus on describing behaviour change features of medication adherence technologies: a European Delphi consultation
- From the 6th to the 9th of November 2022 ISPOR Europe 2022 will take place in Vienna, Austria. A joint ISPOR Medication Adherence and Persistence Working Group – ENABLE forum presentation will be held on the health technology assessment and reimbursement of medication adherence-enhancing interventions on the 8th of November. See the conference program on the following link: <https://www.ispor.org/conferences-education/conferences/upcoming-conferences/ispor-europe-2022/program/program>
 - Poster accepted: Nabergoj Makovec U, Tadic I, Goetzinger C, Ribaut J, Barnestein-Fonseca P, Haupenthal F, Herdeiro MT, Grant P, Jácome C, Roque F, Smits D, Dima AL. Real-time Delphi consultation on medication adherence technologies: consistency of views among different stakeholder groups
- Presentations at ISPOR Europe 2022
 - Ágh T, Peterson AM, Hiligsmann M, Borah BJ, Kardas P. Health technology assessment and reimbursement of medication adherence enhancing interventions. ISPOR Europe 2022, 6-9 November, 2022. Joint ISPOR Medication Adherence and Persistence Working Group – ENABLE forum presentation

- A Delphi study has been conducted by WG2 on the structure of the ENABLE repository of medication adherence technologies. The protocol of the study has been published in BMJ Open in 2022. <https://pubmed.ncbi.nlm.nih.gov/35459677/>
 - Nabergoj Makovec, U., Goetzinger, C., Ribaut, J., Barnestein-Fonseca, P., Hauptenthal, F., Herdeiro, M. T., Grant, S. P., Jácome, C., Roque, F., Smits, D., Tadic, I., Dima, A. L., European Network to Advance Best practices and technoLogY on medication adherencE (ENABLE), & European Network to Advance Best Practices and TechnoLogY on Medication AdherencE (ENABLE) (2022). Developing a medication adherence technologies repository: proposed structure and protocol for an online real-time Delphi study. *BMJ Open*, 12(4), e059674. <https://doi.org/10.1136/bmjopen-2021-059674>
- Medication Adherence Technologies repository is prepared by WG2.
- A Hybrid ENABLE Working Group Meeting in Oslo, Norway on June 24–25, 2022 was held focusing on eHealth and activities enabling medication adherence. The meeting included a visit to the MedTech enterprises network in Fredrikstad, presentations from COST ENABLE working groups and a workshop on the terminology of activities enabling medication adherence continuing the work started in Malaga (see attachment 2)
- First ENABLE Training School at Centro Yusuf Hamied, Instituto Cudeca de Estudios e Investigación. Málaga, Spain on 2-4 May 2022; 3 days Hybrid meeting. Title: Working with patients on Medication Adherence: Practical Solutions (for the final report see attachment 3)
- As WG1, we conducted a two-part survey among key opinion leaders (KOL) and healthcare professionals (HCP) on the management of medication adherence across Europe aiming to identify barriers and unmet needs on medication adherence according to MoU. The surveys have been completed; the results will be shared with a report in October 2022. The protocol was published as an abstract in *Value in Health (ISPOR 2021)* as mentioned below. The manuscripts will be published in the third grant period.
- As WG1, we started to work on a systematic review entitled “Evaluation of Medication Adherence Enhancing Interventions (MAEI) in patients with non-communicable chronic diseases: a systematic review and meta-analysis”. The protocol manuscript has been submitted and the manuscript will be published in the third grant period.
- Special Issue in *FRONTIERS IN PHARMACOLOGY* (IF = 5.810): Recent Advances in Attempts to Improve Medication Adherence – from basic research to clinical practice
 - Ágh, T., Hadžiabdić, M. O., Garuoliene, K., Granas, A. G., Aarnio, E., Menditto, E., Gregório, J., Barnestein-Fonseca, P., Mevsim, V., Kardas, P., & European Network to Advance Best Practices and Technology on Medication Adherence (ENABLE) (2022). Reimbursed Medication Adherence Enhancing Interventions



- in European Countries: Results of the EUREcA Study. *Frontiers in pharmacology*, 13, 892240. <https://doi.org/10.3389/fphar.2022.892240>
<https://pubmed.ncbi.nlm.nih.gov/35784711/>
- Kardas P, Bago M, Barnestein-Fonseca P, Garuolienė K, Granas AG, Gregório J, Hadžiabdić MO, Kostalova B, Leiva-Fernández F, Lewek P, Mala-Ladova K, Schneider MP, van Boven JFM, Volmer D, Ziampara I, Ágh T. Reimbursed medication adherence enhancing interventions in 12 european countries: Current state of the art and future challenges. *Front Pharmacol*. 2022 Aug 11;13:944829. doi: 10.3389/fphar.2022.944829. <https://pubmed.ncbi.nlm.nih.gov/36034792/>
 - Prof. Przemysław Kardas presented about ENABLE “Availability of reimbursed interventions to advance medication adherence in Europe: recent findings of the ENABLE COST Action” at the 31st European Meeting on Hypertension and Cardiovascular Protection, in Athens, Greece, between 17-20 June 2022 (for the program see attachment 4)
 - A research seminar entitled “Digital technologies to enhance respiratory medication adherence and outcomes: how to cost-effectively implement them in global respiratory care?” was organized by Prof. Hilary Pinnock, Prof. Richard Costello, Prof. Mark Hew and Dr. Job van Boven in 27–28 May, 2022 in Lisbon, Portugal
<https://bit.ly/3UKNzZm>
 - Prof. Przemysław Kardas was invited to give a lecture entitled “The ENABLE Cost Action on Adherence” in “Drug adherence in hypertension” session at the 6th European Forum on Hypertension, Gdansk, Poland, between 19-21 May 2022 <https://bit.ly/3BRcgdZ>
 - ENABLE Conference – The European COST Action on Non-Adherence. Swiss COST ENABLE Conference on 18 March 2022 (see attachment 5 for the program). The video is available: <https://bit.ly/3xXCBpE>
 - PCNE 2022 Congress: poster accepted:
 - Nabergoj Makovec U, Goetzing C, Ribaut J, Barnestein-Fonseca P, Haupenthal F, Herdeiro MT, Grant P, Jácome C, Roque F, Smits D, Tadic I, Dima AL. The ENABLE online repository of medication adherence technologies: interim result of the Delphi study
 - From the 8th to the 19th of November 2021 the 25th Annual ESPACOMP conference took place virtually. Posters accepted and published in *International Clinical Pharmacy*:
 - Sara Mucherino, Emma Aarnio, Gaye Hafez, Maria Kamusheva, Francisca Leiva-Fernández, Jovan Mihajlović, Miriam Qvarnström, Ines Potočnjak, on behalf of the ENABLE project Group. Management of Medication Adherence across ENABLE COST countries: A Pilot Study, 25th ESPACOMP Annual Meeting, 8-

- 19 November 2021, live presentation, published in International Journal of Clinical Pharmacy Abstracts of the 25th Annual Meeting of ESPACOMP, the International Society for Medication Adherence, 08-19 November 2021. Int J Clin Pharm. 2022 Jan 30:1–24. doi: 10.1007/s11096-021-01373-5 <https://bit.ly/3SzXj6T>
- Ágh T, Hadziabdic MO, Garuoliene K, Gregorio J, Aleksic VV, Mevsim V, Jakab I, Kardas P. EUREcA - survey on reimbursement pathways for medication adherence enhancing interventions across Europe: study protocol. 25th Annual ESPACOMP Conference, 8-19 November, 2021
 - Kardas P, van Boven JFM, Wettermark B, Menditto E, Pinnock H, Tsiligianni I, Ágh T. Medication management for non-communicable diseases during the COVID-19 outbreak: a snapshot on the European situation. 25th Annual ESPACOMP Conference, 8-19 November, 2021
 - Nabergoj Makovec U, Goetzing C, Ribaut J, Barnestein-Fonseca P, Hauptenthal F, Herdeiro MT, Grant P, Jácome C, Roque F, Smits D, Tadic I, Dima AL. The ENABLE online repository of medication adherence technologies: early phase results
- Joint ESPACOMP-ENABLE symposium:
- van Boven JFM, Ágh T, Wettermark B, Menditto E, Tsiligianni I, de Geest S, Dima A, Vrijens B, Heerdnick R. ESPACOMP-ENABLE Symposium. 25th Annual ESPACOMP Conference, 14 November 2021
- Posters for ISPOR Europe 2021
 - Jovan Mihajlović, Sara Mucherino, Emma Aarnio, Gaye Hafez, Maria Kamusheva, Francisca Leiva-Fernández, Miriam Qvarnström, Ines Potočnjak, Indre Trečiokienė, on behalf of the ENABLE project Group. Pan-European Study on The Management of Medication Adherence: A Study Protocol by Cost Action “Enable” WG1. ISPOR Europe 2021, Copenhagen, Denmark, 30 November-3 December 2021, poster presentation, published in Value in Health Vol. 25 Issue 1 Supplement S219 Published in issue: January 2022 DOI: <https://doi.org/10.1016/j.jval.2021.11.1066> <https://bit.ly/3BYsH8w>
 - Kardas P, van Boven JFM, Wettermark B, Menditto E, Pinnock H, Tsiligianni I, Ágh T. Medication Management Practices for Non-Communicable Diseases during the Second Wave of the COVID-19 Pandemic: A Snapshot of the European Situation. Virtual ISPOR Europe, poster, 30 November - 3 December, 2021
 - Ágh T, Hadziabdic MO, Garuoliene K, Fonseca PB, Menditto E, Kostalova B, Aarnio EJ, Kardas P. Eureka - Exploring Reimbursement Models for Medication Adherence Enhancing Interventions in European Countries: A Survey Protocol. Value in Health, 25: S151. Virtual ISPOR Europe, poster, 30 November - 3 December, 2021

Publication list:

- Bandiera, C., Ribaut, J., Dima, A. L., Allemann, S. S., Molesworth, K., Kalumiya, K., Käser, F., Olson, M. S., Burnier, M., van Boven, J., Szucs, T., Albrecht, D., Wilson, I., De Geest, S., & Schneider, M. P. (2022). Swiss Priority Setting on Implementing Medication Adherence Interventions as Part of the European ENABLE COST Action. *International journal of public health*, 67, 1605204. <https://doi.org/10.3389/ijph.2022.1605204>
- Kardas P, Bago M, Barnestein-Fonseca P, Garuolienė K, Granas AG, Gregório J, Hadžiabdić MO, Kostalova B, Leiva-Fernández F, Lewek P, Mala-Ladova K, Schneider MP, van Boven JFM, Volmer D, Ziampara I, Ágh T. Reimbursed medication adherence enhancing interventions in 12 european countries: Current state of the art and future challenges. *Front Pharmacol*. 2022 Aug 11;13:944829. doi: 10.3389/fphar.2022.944829.
- Ágh, T., Hadžiabdić, M. O., Garuoliene, K., Granas, A. G., Aarnio, E., Menditto, E., Gregório, J., Barnestein-Fonseca, P., Mevsim, V., Kardas, P., & European Network to Advance Best Practices and Technology on Medication Adherence (ENABLE) (2022). Reimbursed Medication Adherence Enhancing Interventions in European Countries: Results of the EUREcA Study. *Frontiers in pharmacology*, 13, 892240. <https://doi.org/10.3389/fphar.2022.892240>
- Nabergoj Makovec, U., Goetzing, C., Ribaut, J., Barnestein-Fonseca, P., Hauptenthal, F., Herdeiro, M. T., Grant, S. P., Jácome, C., Roque, F., Smits, D., Tadic, I., Dima, A. L., European Network to Advance Best practices and technoLogY on medication adherence (ENABLE), & European Network to Advance Best Practices and TechnoLogY on Medication Adherence (ENABLE) (2022). Developing a medication adherence technologies repository: proposed structure and protocol for an online real-time Delphi study. *BMJ Open*, 12(4), e059674. <https://doi.org/10.1136/bmjopen-2021-059674>
- van Boven, J., & Fonseca, J. A. (2021). Editorial: Digital Tools to Measure and Promote Medication Adherence. *Frontiers in medical technology*, 3, 751976. <https://doi.org/10.3389/fmedt.2021.751976>
- van Boven, J. F., Tsiligianni, I., Potočnjak, I., Mihajlović, J., Dima, A. L., Nabergoj Makovec, U., Ágh, T., Kardas, P., Ghiciuc, C. M., Petrova, G., Bitterman, N., Kamberi, F., Culig, J., & Wettermark, B. (2021). European Network to Advance Best Practices and Technology on Medication Adherence: Mission Statement. *Frontiers in pharmacology*, 12, 748702. <https://doi.org/10.3389/fphar.2021.748702>
- Ágh T, van Boven JF, Wettermark B, Menditto E, Pinnock H, Tsiligianni I, Petrova G, Potočnjak I, Kamberi F, Kardas P. A Cross-Sectional Survey on Medication Management Practices for Noncommunicable Diseases in Europe During the Second Wave of the COVID-19 Pandemic. *Front Pharmacol*. 2021 Jun 7;12:685696. doi: 10.3389/fphar.2021.685696.
- Kardas P, van Boven JFM, Pinnock H, Menditto E, Wettermark B, Tsiligianni I, Ágh T; ENABLE collaborators. Disparities in European healthcare system approaches to maintaining continuity of medication for non-communicable diseases during the COVID-19 outbreak. *Lancet Reg Health Eur*. 2021 May;4:100099. doi: 10.1016/j.lanepe.2021.100099. Epub 2021 Apr 14.

INCLUSIVENESS

- Country 40, MC member 63
- Participant 130

STAKEHOLDER ENGAGEMENT

- A Hybrid ENABLE Working Group Meeting in Oslo, Norway on June 24–25, 2022 was held focusing on eHealth and activities enabling medication adherence. The meeting included a visit to the MedTech enterprises network (Dignio) in Fredrikstad, presentations from COST ENABLE working groups and a workshop on the terminology of activities enabling medication adherence continuing the work started in Malaga.
- ENABLE Conference – The European COST Action on Non-Adherence. Swiss COST ENABLE Conference on 18 March 2022 (see attachment for the program) <https://bit.ly/3xXCBpE>
- From the 8th to the 19th of November 2021 the 25th Annual ESPACOMP conference took place. A special Symposium brought together a multidisciplinary medication adherence panel from ESPACOMP and COST Action ENABLE to create collaborations and create synergies. The ESPACOMP-ENABLE Symposium considered barriers and facilitators regarding the implementation of medication adherence enhancing technologies across different European healthcare systems. The video is available: <https://bit.ly/3dM3FS1>
- EUPATI webinar
- WG2 webinar list (online):
 - The COMPAR-EU Online Platform for self-management interventions 11th October 2022 <https://bit.ly/3RjdtjY>
 - Quality criteria for Medication Adherence Technologies on 3rd March 2022. The video of the webinar is available: <https://bit.ly/3dKyaHU>
 - Medical Device Regulations – Software as Medical Device 14th October 2021. The video of the webinar is available: <https://bit.ly/3Sivj8h>

Some examples of activities at national level:

- The International Society for Pharmacoeconomics and Outcomes Research (ISPOR) held its Bulgarian Chapter event in the cosy environment of SOHO (Sofia Holistic Coworking Company) on 17 June 2022. ISPOR Bulgarian Chapter and Bulgarian Association of Pharmacoeconomics different stakeholders gathered to discuss the challenges and possible solutions to improve medication adherence for Bulgarian patients. International and national experts from the regulatory authorities, academia, pharmaceutical and digital technology industry, patients` representatives and healthcare professionals presented their point of view and innovative vision how to raise awareness, identify possible gaps and barriers and to provide solutions. <https://ispor-bulgaria.org/adherence-to-treatment/>



STSM and ITC GRANTS

- STSM are institutional visits aimed at supporting individual mobility, fostering collaboration between individuals. The Call for STSM applications is open all time for the running Grant Period. The number of participants is 6 until October 2022
- ITC Conference Grants aim to support ECI and PhD students from participating in ITC to attend international science and technology-related conferences, event or activity on the topic of the Action that is not organised by the COST Action. The number of participants is 3 until October 2022.