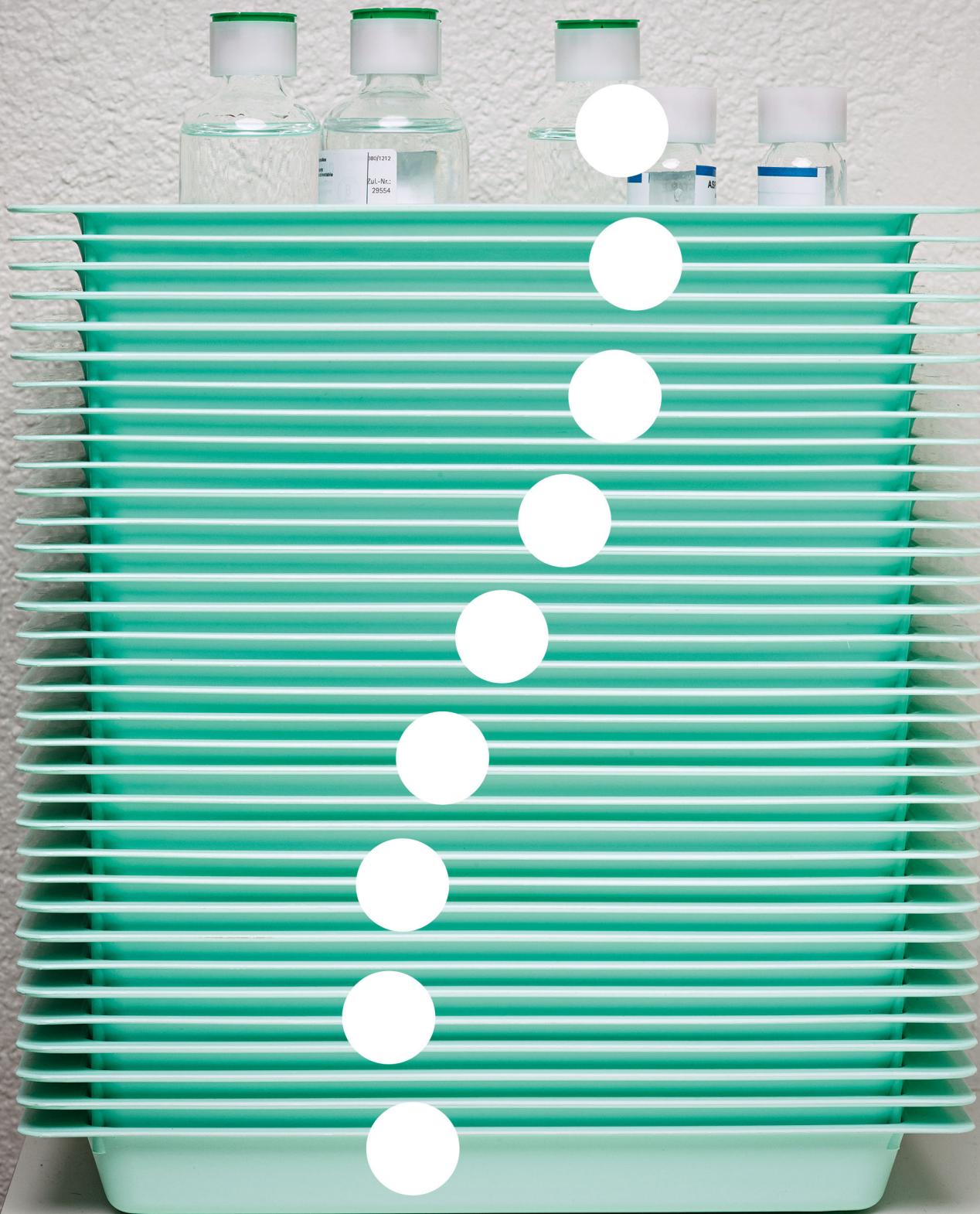


RESEARCH & DEVELOPMENT

# R&D Letter

n° 23 - November 2022





# R&D Letter

## Introduction

It is with great pleasure that this R&D Letter announces eight new scientific studies. The diversity of the project topics, as well as the scientific publications and conference contributions, illustrate the connectivity with the clinical field, the support of policy makers, and reflect the extensive scope of our national and international partnerships.

To strengthen our teams in these R&D activities, we welcome new collaborators who complete our research and development teams with their expertise.

After a Master's degree in clinical psychology obtained at the University of Lausanne and a position as a research associate in community psychiatry in the research unit of the DP-CHUV's community psychiatry service, **Debora Martinez** joined the Mental Health and Psychiatry LAB ([MHP LAB](#)) through the ENSEMBLE project, led by Shyhrete Rexhaj.

**Virginie Casellini-Le Fort**, who holds a Master's degree in nursing, worked at the Violence Medicine Unit (UMV) at the CHUV for 5 years. She also participated in other research projects led by Delphine Roulet Schwab within the senior-lab. She joined the Ageing and Health LAB ([AH LAB](#)) through the VCA project of Delphine Roulet Schwab.

**Sophie Sieber**, who is passionate about the field of care for older persons, worked as a clinical nurse specialist in the Geriatrics and Geriatric Rehabilitation Service of the CHUV. She joined the AH LAB through Delphine Roulet Schwab's RESOURCE project in collaboration with the University of Basel.

**Gabriela Rauber**, holder of a Master's degree in social anthropology from the University of Bern, joins the AH LAB through Delphine Roulet Schwab's VCA project.

N. Wellens, vice-dean Research and Development

## New projects

### [VCA] Preventing intimate partner violence among older aged couples

Although rarely mentioned, domestic violence also affects people aged 64 and over. This national research project aims to better understand the particularities of domestic violence, especially psychological, with advancing age and to improve accessibility to services for seniors. It will give a voice to seniors, former victims or not, and to care professionals in community care and domestic violence. It will allow the development of awareness-raising material that will be distributed during a national campaign in November-December 2023. The project is being carried out in collaboration with the National Competence Centre for Old Age without Violence, in French "Centre national de compétence Vieillesse sans violence" and the senior-lab. It is funded by the Oak Foundation, the Federal Office for Equality and various partners.

Contact: D. Roulet Schwab, AH LAB

### [HYGIE] Detection of respiratory infection risks in indoor spaces.

Respiratory infections are a major cause of morbidity and mortality, particularly in elderly persons. Early assessment of the risk of infection should help to reduce the impact of these infections by promoting active prevention.

The HYGIE project aims to develop a connected box that can detect and report an infectious risk in a closed environment in an early, reliable and autonomous 24/7 manner. This integrated solution, which measures several parameters simultaneously, is particularly suitable for institutions such as long-term care facilities or specialised units within a hospital.

The project is a collaboration with the Swiss Centre for Electronics and Microtechnology ([CSEM](#)), the company [Zynnon SA](#) and the [SILAB](#), and is financed by Innosuisse. In partnership with healthcare institutions, it will mainly consist of optimising the detection sensors and adapting the measurement and alert transmission components to the specific needs of users, whether they are patients, caregivers or institutions.

Contact: D. Céfaï, SILAB

### [FBBS] Baby boomer women living alone facing their housing dilemmas: housing situations, plans, choices and needs

Planning for retirement often involves residential choices. Decision-making in this area is influenced by gender. The aim of this project is to highlight the dilemmas faced by women in particular in the context of ageing. A better understanding of the needs and preferences of single women baby boomers (SWBBs) will help guide the governance of cities in their innovative housing strategies. Based on a participatory approach collecting qualitative and quantitative data, this project aims to answer three fundamental questions: What financial and social resources can SWBBs rely on? What goods and services can they aspire to? What courses of action will serve the development of a housing offer at the service of an inclusive society favorable to active ageing?

Contact: M. Droz Mendelzweig, AH LAB

### [Diet] Diet for the planet: distance to go and additional benefits

To improve human health and reduce our impact on the planet, a Planetary Health Diet has been proposed by the [Eat-Lancet Commission](#). The aim of this research project is to evaluate this diet in relation to the current Swiss diet, to determine the socio-demographic and health characteristics of individuals near and far from this diet, and to identify the potential benefits of the planetary health diet against cardiovascular problems in Switzerland. To achieve our objectives, data from a Lausanne cohort, which has been following the cardiovascular health of Lausanne residents for more than 15 years, will be analysed with respect to their distance from the Planetary Health Diet. The age and vulnerabilities of individuals will be considered more specifically.

Contact: S. Vuilleumier, CHPP LAB

**[SAFARI] Interventions infirmières en santé de l'enfant et de la famille en période de pandémie (Santé enfAnt Famille en période de pAndémie : inteRventionsvInfirmières).**

The COVID-19 pandemic has had a considerable impact on society as a whole, at all levels (individual, family and community). The aim of this project is to explore the health experience of children aged 11 years and above and their families who used pediatric home care in the canton of Vaud during the pandemic for an initial health problem or as part of an established follow-up. The results will describe the health experience of children and families, identify and map the challenges and needs of pediatric home nursing care, and provide recommendations for the adaptation of current family nursing interventions or the development of new relevant family interventions during the pandemic and beyond.

Contact: V. de Goumoëns, CFH LAB

**[INTERSCALE] Sustainable improvement of INTERprofessional care for better resident outcomes: SCALing up an Evidencebased care model for nursing homes**

The initial INTERCARE study showed new possibilities to optimise the already limited staff resources in long-term care in Switzerland to achieve better outcomes for residents. In order to guarantee a high quality of care, it is essential to deploy trained health care staff where the benefit is greatest: within the clinical teams. The introduction of a care model based on clinical leadership in combination with the detection of early or acute decline by introducing both structured assessments and communication tools has shown successful decrease in hospital admissions. The cost-benefit of the intervention is also proven. This second "scale-up" study, INTERSCALE, will investigate the most effective ways of implementation to prepare for large-scale roll out in swiss long-term care facilities for older persons.

Contact: N. Wellens, Décanat Facultaire

**[ACTiV] Amélioration des Conditions de Travail des Infirmiers et Infirmières Vaudoises**

Identifying concrete solutions to facilitate the reconciliation of private and professional life for nurses, and then identifying ways to promote the recognition of nurses' skills, are the first two steps in a research program aimed at improving working conditions in the care sector. Financed and supported by the Department of Health and Social Action of Canton Vaud, these two studies are being carried out by La Source Institute and School of Nursing (La Source) and The School of Engineering and Management ([HEIG-VD](#)), in collaboration with the Swiss Nurses Association of the Canton of Vaud.

For any questions, do not hesitate to write to [faciliter@ecolelasource.ch](mailto:faciliter@ecolelasource.ch)

Contact: A. Oulevey Bachmann, CHPP LAB

**[SCOHPICA] Swiss Cohort of Healthcare Professionals and Informal Caregivers**



Conducted by Unisanté and La Source, the SCOHPICA project gives a voice to health professionals and family caregivers - two essential links in the health system - through the creation of a national cohort. Participants will answer an annual electronic questionnaire and have the opportunity to talk to scientists. This survey will allow a better understanding of individual trajectories, measure the well-being of professionals and caregivers, and identify the causes of dissatisfaction or premature departure from the profession. The results of the survey will be continuously disseminated on an interactive online platform. A panel of experts from the different professions and family caregivers will be involved at each stage of the project to ensure that it reflects their concerns. For information or to participate: [www.scohpica.ch](http://www.scohpica.ch)

Contact: A. Oulevey Bachmann, CHPP LAB

**Do not miss**

**Toque et Doc - la causerie médico-culinaire La Source – February 22nd 2023 - La Source, site de Beaulieu.** « Éteindre le feu » ou le rôle de notre alimentation sur les maladies inflammatoires. More informations [here](#).

## New publications

### Scientific publications

- Baptista Peixoto Befecadu, F., **Perrenoud, B.**, Behaghel, G., Jaques, C., Pautex, S., Da Rocha Rodrigues, M. G., & Larkin, P. J. (Éds.). (2022). Experience of hope in adult patients with advanced chronic disease and their informal caregivers: A qualitative systematic review protocol. *JBI Evidence Synthesis*, 20(8), 20252031.
- Bartakova, J., Zúñiga, F., Guerbaai, R.-A., Basinska, K., Brunkert, T., Simon, M., Denhaerynck, K., De Geest, S., **Wellens, N.I.H.**, Serdaly, C., Kressig, R. W., Zeller, A., Popejoy, L. L., Nicca, D., Desmedt, M., & De Pietro, C. (2022). Health economic evaluation of a nurse-led care model from the nursing home perspective focusing on residents' hospitalisations. *BMC Geriatrics*, 22(1), 496.
- Burr, C., Jaeger, M., **Suter, C.**, Berchtold, J., & Zwicknagl, A. (2022). Position paper: Peer support and involvement of people with lived experience with mental health problems and recovery in psychiatry. *Swiss Archives of Neurology, Psychiatry and Psychotherapy*, 3.
- Chiolero, A., Cullati, S., Tancredi, S., Méan, M., Rodondi, N., Raileanu, L. E., & **Santschi, V.** (2022). De la pratique fondée sur les preuves à l'amélioration de la qualité pour des soins de haute valeur centrés sur le patient. *Revue médicale suisse*, 18(790), 1402-1405.
- Dessimoz Künzle, L., Cattagni Kleiner, A., & **Romain-Glassey, N.** (2022). Suffering and care of 0-12 year-old children exposed to intimate partner violence: Making clinical forensic data talk. *Frontiers in Psychiatry*, 13.
- Gastens, V., **Kiszio, B.**, Giovane, C. D., Tsuyuki, R., Paradis, G., Chiolero, A., & **Santschi, V.** (2022). Pharmacist interventions to improve hypertension management: Protocol for a systematic review of randomised controlled trials. *BMJ Open*, 12(5), e059399.
- Gilliand, M., **Perrenoud, B.**, Lecerf, T., Serex, M., Breaud, A., & Larkin, P. (2022). Behavioral pain indicators for adults with an intellectual disability: A scoping review protocol. *JBI Evidence Synthesis*, 10.11124/JBIES.
- Gomes da Rocha, C., **Perrenoud, B.**, & Ramelet, A.-S. (2022). Perceptions of burden and preparedness for caregiving among the family caregivers of hospitalised older adults: A cross-sectional study. *Geriatrics*, 7(1), art. 19.
- Goumoëns, V., D.**, Rutz, D., Bruyère, K., Rylvlin, P., Ramelet, A. (2022). Interventions auprès des familles de personnes atteintes de lésions cérébrales acquises en phase aiguë d'hospitalisation. *Mains Libres*, (2), 95-101.
- Jubin, J., Delmas, P.**, Gilles, I., **Oulevey Bachmann, A.**, & **Ortoleva Bucher, C.** (2022). Protective factors and coping styles associated with quality of life during the COVID-19 pandemic: A comparison of hospital or care institution and private practice nurses. *International Journal of Environmental Research and Public Health*, 19(12), 7112.
- Lecocq, D., Lefebvre, H., Bellier, T., **Antonini, M.**, Dumont, J., Van Cutsem, C., Draye, M.-C., Haguinet, N., & **Delmas, P.** (2022). Émotions des infirmières au chevet des malades hospitalisés pour la Covid-19. Recherche qualitative consensuelle. *Santé Publique*, 33(6), 863-873.
- Litschgi, V., Zúñiga, F., Brunkert, T., Geest, S. D., Simon, M., Staudacher, S., Kressig, R. W., **Wellens, N. I. H.**, Serdaly, C., Bartakova, J., & Guerbaai, R. A. (2022). *Sustainable improvement of INTERprofessional care for better resident outcomes: SCALing up an Evidence-based care model for nursing homes (INTERSCALE). A protocol for a scoping literature review.* Zenodo.
- Ribeiro, A. I., Fraga, S., Severo, M., Kelly-Irving, M., Delpierre, C., Stringhini, S., Kivimaki, M., **Joost, S.**, Guessous, I., Severi, G., Giles, G., Sacerdote, C., Vineis, P., Barros, H. (2022). Association of neighbourhood disadvantage and individual socioeconomic position with all-cause mortality: A longitudinal multicohort analysis. *The Lancet Public Health*, 7(5), e447e457.

Schütz, N., Knobel, S. E. J., Botros, A., Single, M., Pais, B., **Santschi, V.**, Gatica-Perez, D., Buluscek, P., Urwyler, P., Gerber, S. M., Müri, R. M., Mosimann, U. P., Saner, H., & Nef, T. (2022). A systems approach towards remote health-monitoring in older adults : Introducing a zero-interaction digital exhaust. *npj Digital Medicine*, 5(1), 1-13.

### Professional publications

- Bosisio, F., Barazzetti, G., Jost Gara, V., **Ferrari, P.**, **Rexhaj, S.**, & Leroy, A. (2022). Proches aidant-e-s : Comment bien anticiper. *Reiso, Revue d'information sociale, Avril*.
- Froment, N., **Guzman Villegas-Frei, M.**, **Dzemaili, S.**, **Oulevey Bachmann, A.**, & **Vuilleumier, S.** (2022). Agissons pour notre santé et notre environnement. *Soins infirmiers*, 6, 76-77.
- Salgado, R.**, **Antonini, M.**, & **Delmas, P.** (2022). Vivre avec une maladie chronique : Les conséquences psychologiques des maladies chroniques méritent une prise en charge spécifique. *Psychoscope*, 5, 18-21.
- Santschi, V.**, & Berger C. (2022). Prise en charge en équipe impliquant le pharmacien pour un meilleur contrôle de l'hypertension. *pharmaJournal*, 5, 19-21
- Vuilleumier, S.**, & **Langwieser, L.** (2022). Essor indispensable pour la santé environnementale. *Reiso, Revue d'information sociale, Mai*.
- Vuilleumier, S.** (2022). La santé durable nécessite de nouvelles compétences. *Competence H+ Hospital Forum*, 3, 30-31.

### Book chapters

- Doyon, O. & Longpré, S. (2022). *Evaluation clinique d'une personne symptomatique* (2e édition). Pearson; ERPI. Contribution of **Rexhaj, S.**

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