



IMPLEMENTATION SCIENCE IN GLOBAL HEALTH

BROCHURE

July 8th to 12th 2024
Utrecht (NL)



WITS
UNIVERSITY

summerschool
UTRECHT



UMC Utrecht

W E L C O M E



Welcome to the Global Health Implementation Summer Course! In this 5-day full time summer course, we will focus on the added value of implementation science. With a team of experts from all over the world, we will discuss the main and crucial elements of implementation science. We will do so in the context of global health and health inequities, building on fundamental implementation science theory while learning from best-practice examples across the globe.

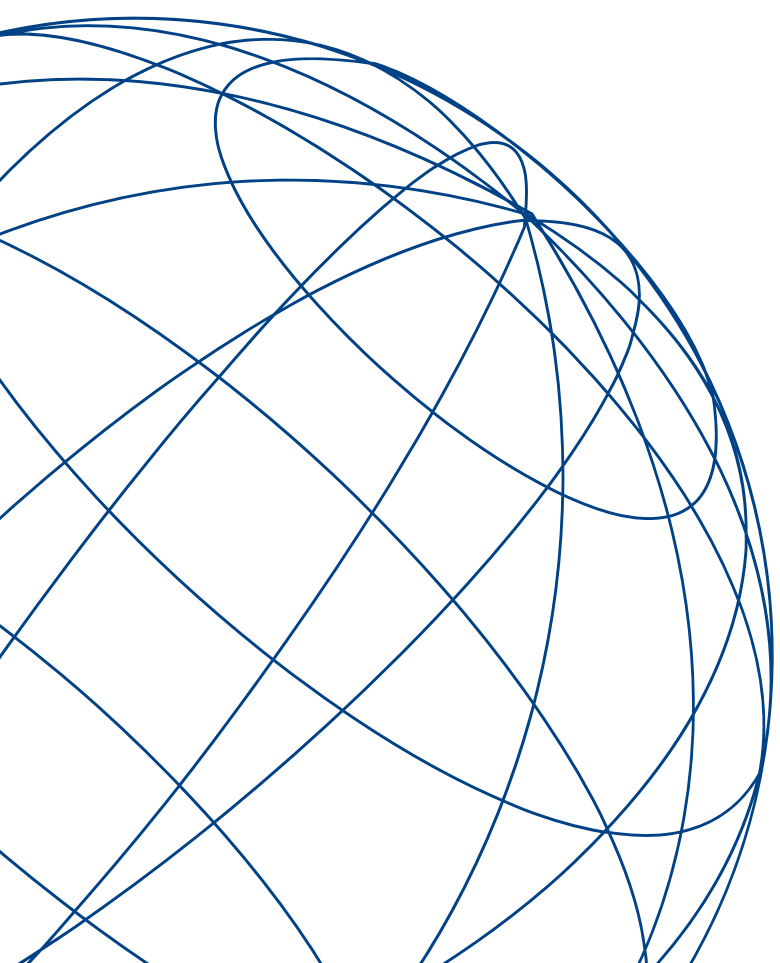
Course directors

Dr. Juliana Kagura (University of Witwatersrand, South Africa)

Dr. Martin Heine (UMC Utrecht, Netherlands)

Contact:

m.heine-2@umcutrecht.nl



OBJECTIVES

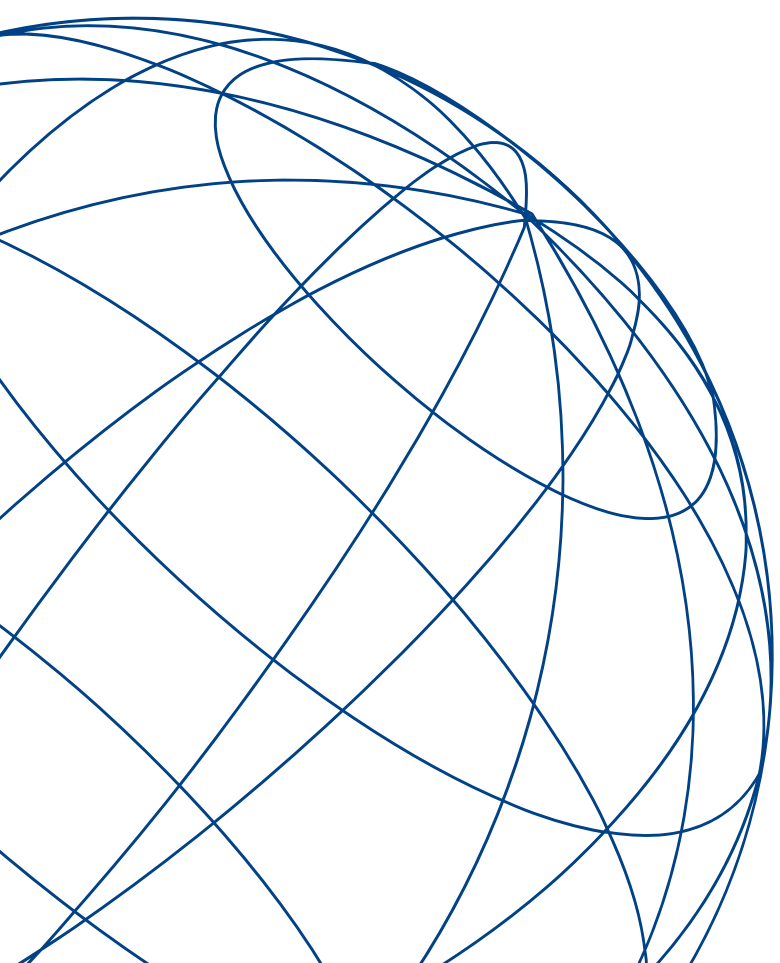
Course aims

It takes more than a decade to implement evidence-based interventions in real life setting (know-do gap) due to a myriad of impediments, especially in low-resourced settings. The goal of implementation science is to close this know-do gap by balancing theory and practical applications to examine and address gaps between the development of evidence-based health innovations and their delivery in routine practice. This summer course seeks to provide a brief overview of the theory, operational and evaluation approaches to implementation science.

In this summer course we will provide lectures, best-practice case examples and interactive sessions

We aim to address the following learning objectives:

- To outline the theory, key concepts, and principles of implementation science;
- To articulate implementation determinants and value the importance of context in global health research;
- To know how to outline and engage with stakeholders;
- To get insight in implementation strategies and mechanisms of change;
- To describe implementation outcomes and how they differ from health outcomes;
- To learn from best-practice case examples from different contexts;
- To apply frameworks commonly used in implementation science (CFIR, EPIC and RE-AIM).



PRACTICAL INFORMATION

Some practical information

Location: The summer school will take place in the same location every day, at [University College Utrecht, Campusplein 1, 3584 ED Utrecht](#).

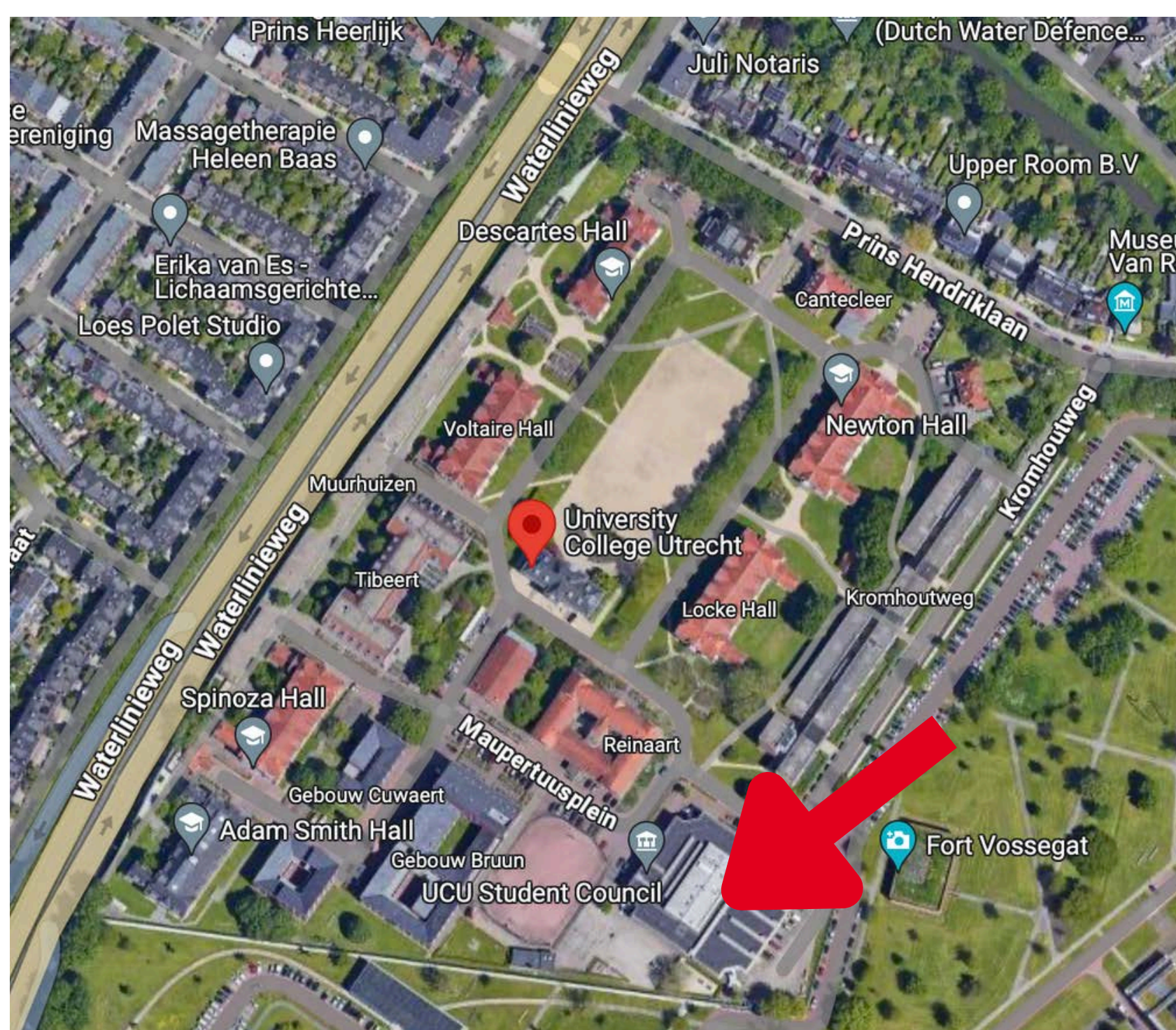
At the UCU campus, we will convene in a building called “Dining hall” (See map below, red arrow)

Room: Once in the “Dining Hall” building, signs will direct you to the correct room.

Timings: Every day we will begin at 09:00. Please make sure you arrive on time. We will finish every day at 17:00, with 2 optional evening activities. You can find more information about the agenda in the following pages.

Readings: Each session has some pre-readings, recommended readings, and further readings suggested. The pdf of each paper has been added to this shared [Google folder](#) in case you are unable to access them.

Contact: If you need help with anything, please reach out to Martin Heine (course director) m.heine-2@umcutrecht.nl.





Prof. Juliana Kagura

- Associate Professor in the Division of Epidemiology & Biostatistics, School of Public Health at the University of the Witwatersrand (WITS)
- Program coordinator and lecturer Implementation Science at WITS
- Technical advisor to WHO/TDR programme on Implementation Research core competencies



Dr. Martin Heine

- Course director and assistant professor in Implementation Science & Global Health, UMC Utrecht (NL)
- World Heart Federation emerging leader
- Research fellow at the Institute of Sport and Exercise Medicine, Stellenbosch University, South Africa



Prof. René English

- Head of the Health Systems and Public Health Division in the Department of Global Health in the Faculty of Medicine and Health Sciences at Stellenbosch University
- Kofi Annan Global Health Leadership Fellow
- Lancet commission on High Quality Health Systems



Prof. Vilma Irazola

- Director of the South American Centre of Excellence for Cardiovascular Health (CESCAS)
- Director of the Department of Chronic Diseases at the Institute for Clinical Effectiveness and Health Policy (IECS), University of Buenos Aires
- Faculty of the Global Alliance of Chronic Disease implementation science school and e-Hub



Eden Zhu

- PhD candidate at Erasmus University Rotterdam (Erasmus School of Health Policy and Management)
- Specialist in implementation science evidence synthesis methodologies
- Experienced in sustainable development in global health, primarily focusing on health systems and long-term care



Dr. Lisa Pfadenhauer

- Senior Researcher at Ludwig-Maximillan University, Munich (Germany)
- Adjunct assistant professorship at Rollins School of Public Health, Emory University, USA.
- Internationally acclaimed expert on context (analysis) and complexity in implementation



Dr. Samanta Lalla-Edward

- Director Research Development, Ezintsha (South Africa)
- Public health researcher and monitoring and evaluation specialist experienced in HIV prevention and treatment research and implementation
- Program coordinator iHeartSA, NIH-funded implementation science study on integrated HIV and Hypertension Care



Prof. Hans van Delden

- Professor in medical ethics at the UMC Utrecht (NL)
- Co-director for the recently initiated WHO Collaborating Center for Bioethics.



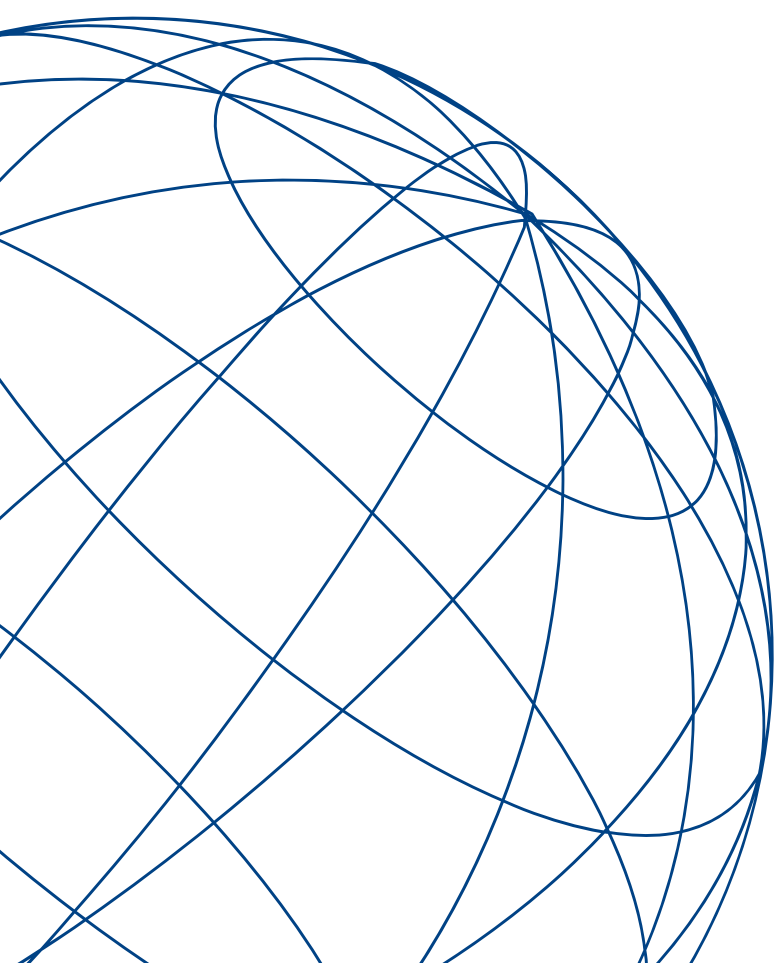
Monika Martens

- PhD Candidate at the University of Antwerp/ Institute for Tropical Medicine Antwerp (BE)
- Emerging expert in advanced methods to support impact at policy level, including realist evaluations and use of policy dialogues
- Key member of the UA/ITM team on the EU-funded "Scaling-up integrated care for diabetes and hypertension project (SCUBY)



Izzy Bandurek

- Research Capacity Manager at the Global Alliance of Chronic Disease
- Leads networking, capacity, and capability strengthening activities across GACD Research Programmes
- UK-registered dietitian with a special interest in global nutrition



OVERVIEW

8th of July		9th of July		10th of July		11th of July	
Day 1		Day 2		Day 3		Day 4	
9:00 – 9:30	Welcome and introductions Dr. Martin Heine, UMC Utrecht (NL)	Recap and Q&A day 1 Dr. Martin Heine, UMC Utrecht (NL)	Recap and Q&A day 2 Dr. Martin Heine, UMC Utrecht (NL)	Recap and Q&A day 3 Dr. Martin Heine, UMC Utrecht (NL)	Recap and Q&A day 4 Dr. Martin Heine, UMC Utrecht (NL)		
9:30 – 11:00 Session 1	Prof. Juliana Kagura, WITS University (SA) <i>Overview and introduction to implementation science (theory, key concepts and principles)</i>	Prof. Vilma Irazola, University of Buenos Aires (AR) <i>Implementation strategies</i>	Dr. Lisa Pfadenhauer, LMU (DE) <i>Context and Complexity in Implementation Science</i>	Prof. Vilma Irazola, University of Buenos Aires (AR) <i>The role of adaptation in implementations science</i>	Dr. Lisa Pfadenhauer, LMU <i>Implementation science and commercial determinants of Health</i>		
11:30 – 13:00 Session 2	Prof. Rene English, Stellenbosch University (SA) <i>Real-world experiences of co-design and co-creation in low-resourced settings</i>	Prof. Juliana Kagura, WITS University (SA) <i>Research design and methods for Implementation Science studies</i>	Dr. Martin Heine, UMCU (NL) <i>Competencies in Implementation Science and Practice</i>	Assignment: Challenge-based learning assignment; protocol development and presentation preparation	Monika Martens, University of Antwerp <i>Impacting policy - the Kingdon multiple streams model</i>		
13:00 - 14:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		
14:00 – 15:00 Session 3	Assignment: Challenge-based learning assignment; big idea and implementation challenge/essential question	Eden Zhu, Erasmus University (NL) <i>Workshop evidence synthesis in implementation science</i>	Assignment: Challenge-based learning assignment; Investigate phase/ desk research	Prof. Hans van Delden, UMC Utrecht (NL) <i>Implementation research with vulnerable populations - roundtable discussion</i>	Assignment: Challenge-based learning assignment presentations		
15:30 – 17:00 Session 4	Prof. Juliana Kagura, WITS (SA) <i>Implementation Outcomes</i>	Assignment: Challenge-based learning assignment; engage phase (pitch / panel discussion)	Dr. Samanta Lalla-Edward, Ezintsha (SA) <i>iHeartSA - integrating HIV / HTN care in South Africa - experiences with conducted IS research</i>	Izzy Bandaruk, GACD <i>A short introduction to the Global Alliance of Chronic Disease</i>	Closing		
				Free time (16:00-17:00)			
19:00 - 22:00 Evening Events (Optional)		Social Activity (Optional): <i>Utrecht Photo Challenge</i> Location: Domplein, 3512 JD Utrecht			Symposium (optional) - <i>Global perspective on NCDs</i> - Prof. Vilma Irazola - Prof. Rene English Location: Academiegebouw		

DAY 1

	Monday 8th July 2024
9.00 – 9.30	Welcome and introductions
9.30 – 11.00 Session 1 (Lecture)	Prof. Juliana Kagura, WITS University (SA) Overview and introduction to implementation science (theory, key concepts and principles)
BREAK	
11.30 – 13:00 Session 2 (From the field)	Prof. Rene English, Stellenbosch University (SA) Real-world experiences of co-design and co-creation in low-resourced settings
LUNCH	
14:00 – 15:00 Session 3 (group-work)	Challenge-based learning assignment; big idea and implementation challenge / essential question
BREAK	
15:30 – 17:00 Session 4 (Lecture)	Prof. Juliana Kagura, WITS University (SA) Implementation outcomes
DAY 1 - PRE READING	
Session 1	
<ul style="list-style-type: none">Smith JD, Li DH, Rafferty MR. The implementation research logic model: a method for planning, executing, reporting, and synthesizing implementation projects. <i>Implementation Science</i>. 2020 Dec;15:1-2. https://doi.org/10.1186/s13012-020-01041-8Ogden T, Fixsen DL. Implementation science. <i>Zeitschrift für Psychologie</i>. 2015 Feb 28. https://doi.org/10.1027/2151-2604/a000160	
Session 4	
<ul style="list-style-type: none">Proctor E, Silmere H, Raghavan R, Hovmand P, Aarons G, Bunger A, Griffey R, Hensley M. Outcomes for implementation research: conceptual distinctions, measurement challenges, and research agenda. <i>Administration and policy in mental health and mental health services research</i>. 2011 Mar;38:65-76. https://doi.org/10.1007/s10488-010-0319-7	

DAY 2

	Tuesday 9th July 2024
9.00 – 9.30	RECAP AND Q&A DAY 1
9.30 – 11.00 Session 1 (Lecture)	Prof. Vilma Irazola, University of Buenos Aires (AR) Implementation strategies
BREAK	
11.30 – 13:00 Session 2 (Lecture)	Prof. Juliana Kagura, WITS University (SA) Research design and methods for implementation science studies
LUNCH	
14:00 – 15:00 Session 3 (Lecture)	Eden Zhu, Erasmus University Rotterdam (NL) Evidence synthesis in implementation science
BREAK	
15:30 – 17:00 Session 4 (group-work)	Challenge-based learning assignment; engage phase (pitch / panel discussion)
DAY 2 - PRE READING	
Session 2 <ul style="list-style-type: none">Brown CH, Curran G, Palinkas LA, Aarons GA, Wells KB, Jones L, Collins LM, Duan N, Mittman BS, Wallace A, Tabak RG. An overview of research and evaluation designs for dissemination and implementation. Annual review of public health. 2017 Mar 20;38:1-22. https://doi.org/10.1146/annurev-publhealth-031816-044215	
Session 3 <ul style="list-style-type: none">Zhu EM, Buljac-Samardžić M, Ahaus K, Sevdalis N, Huijsman R. Implementation and dissemination of home-and community-based interventions for informal caregivers of people living with dementia: a systematic scoping review. Implementation Science. 2023 Nov 8;18(1):60. https://doi.org/10.1186/s13012-023-01314-yNilsen P. Making sense of implementation theories, models, and frameworks. Implementation Science 3.0. 2020:53-79. https://doi.org/10.1186/s13012-015-0242-0	

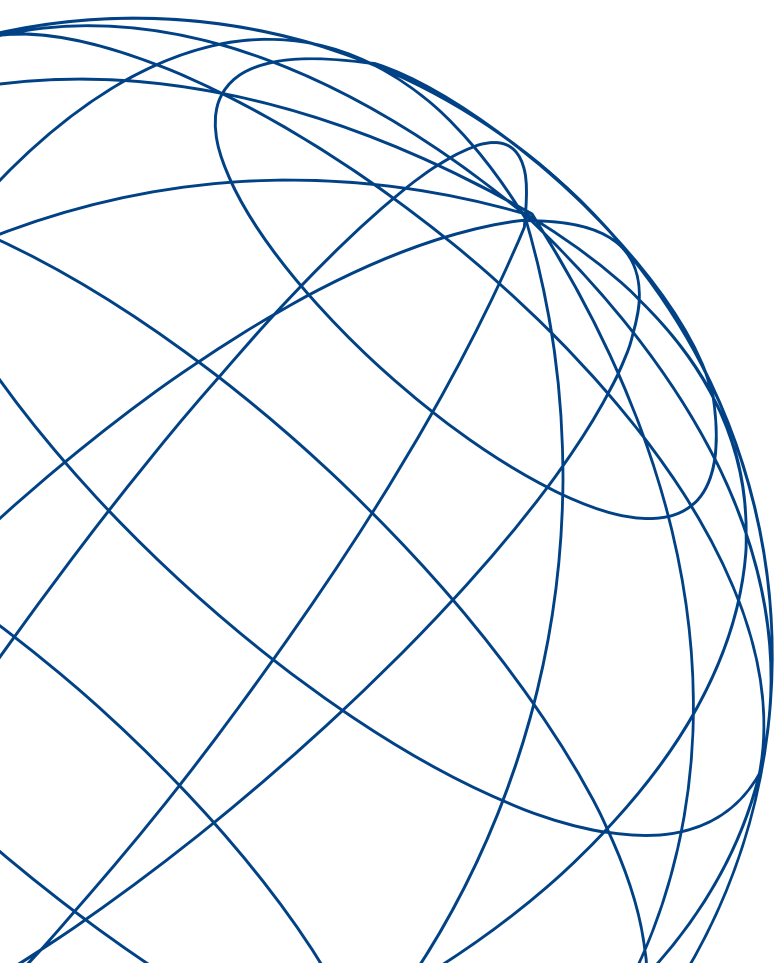
SOCIAL ACTIVITY: UTRECHT PHOTO CHALLENGE

This is an optional activity, [but please RSVP to this event by completing this sign-up form.](#)

When: Tuesday 9th July, 19:00-21:30

Where: [Domplein, 3512 JD Utrecht](#)

What: [Utrecht Photo Challenge](#) is an out-of-the-box scavenger hunt in Utrecht . Discover the city through the eyes of a local, armed with a map and a Polaroid camera. The map takes you to our favorite spots in the city. At each spot you score points by recreating the example photo as best as possible. Let your team members pose and use the Polaroid camera to capture the scene. A fun and challenging activity to explore Utrecht, for both locals and people who don't know the city.



DAY 3

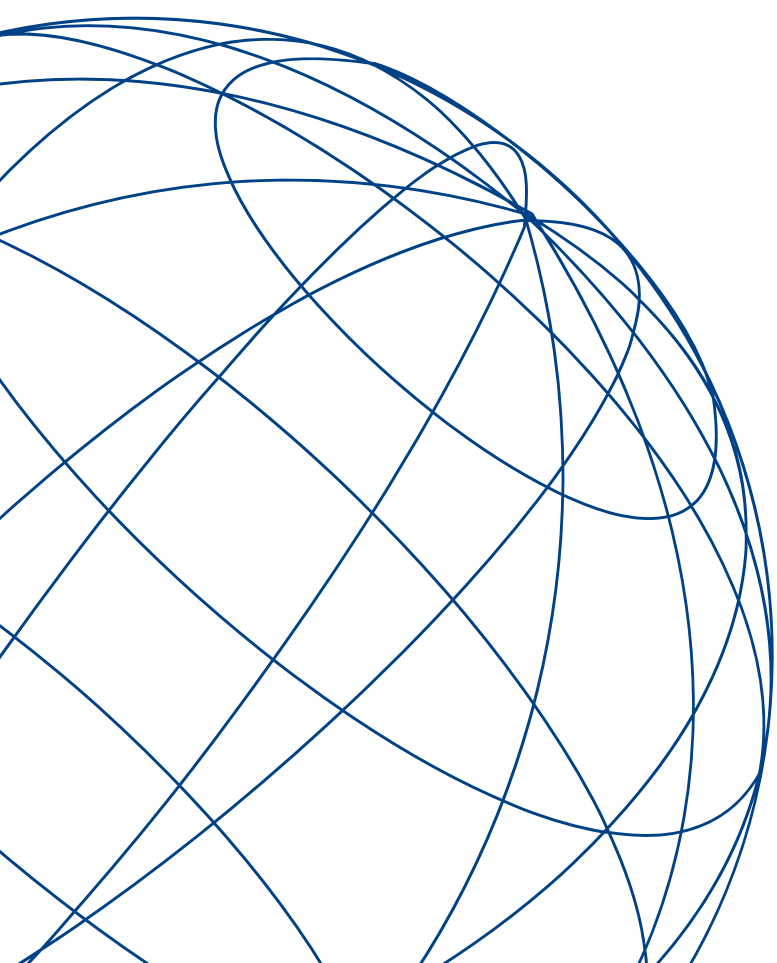
Wednesday 10th July 2024	
9.00 – 9.30	RECAP AND Q&A DAY 2
9.30 – 11.00 Session 1 (Lecture)	Dr. Lisa Pfadenhauer, LMU (DE) Context and Complexity in Implementation Science
BREAK	
11.30 – 13:00 Session 2 (From the field)	Dr. Martin Heine, UMC Utrecht (NL) Competencies in implementation science and practice
LUNCH	
14:00 – 15:00 Session 3 (lecture)	Challenge-based learning assignment; investigate phase (pitch / panel discussion)
BREAK	
15:30 – 17:00 Session 4 (Group-work)	Dr. Samanta Lalla-Edward, Ezintsha (SA) iHeartSA - Integrating HIV / HTN care in South Africa - experiences with conducted IS research
<p style="text-align: center;">DAY 3 - PRE READING</p> <p>Session 1</p> <ul style="list-style-type: none"> • Pfadenhauer LM, Gerhardus A, Mozygemba K, Lysdahl KB, Booth A, Hofmann B, Wahlster P, Polus S, Burns J, Brereton L, Rehfuess E. Making sense of complexity in context and implementation: the Context and Implementation of Complex Interventions (CICI) framework. <i>Implementation science</i>. 2017 Dec;12:1-7. https://doi.org/10.1186/s13012-017-0552-5 • Nilsen P, Bernhardsson S. Context matters in implementation science: a scoping review of determinant frameworks that describe contextual determinants for implementation outcomes. <i>BMC health services research</i>. 2019 Dec;19:1-21. https://doi.org/10.1186/s12913-019-4015-3 • Rogers L, De Brún A, McAuliffe E. Defining and assessing context in healthcare implementation studies: a systematic review. <i>BMC health services research</i>. 2020 Dec;20:1-24. https://doi.org/10.1186/s12913-020-05212-7 	

DAY 3 - PRE READING (CONTINUED)

Session 2

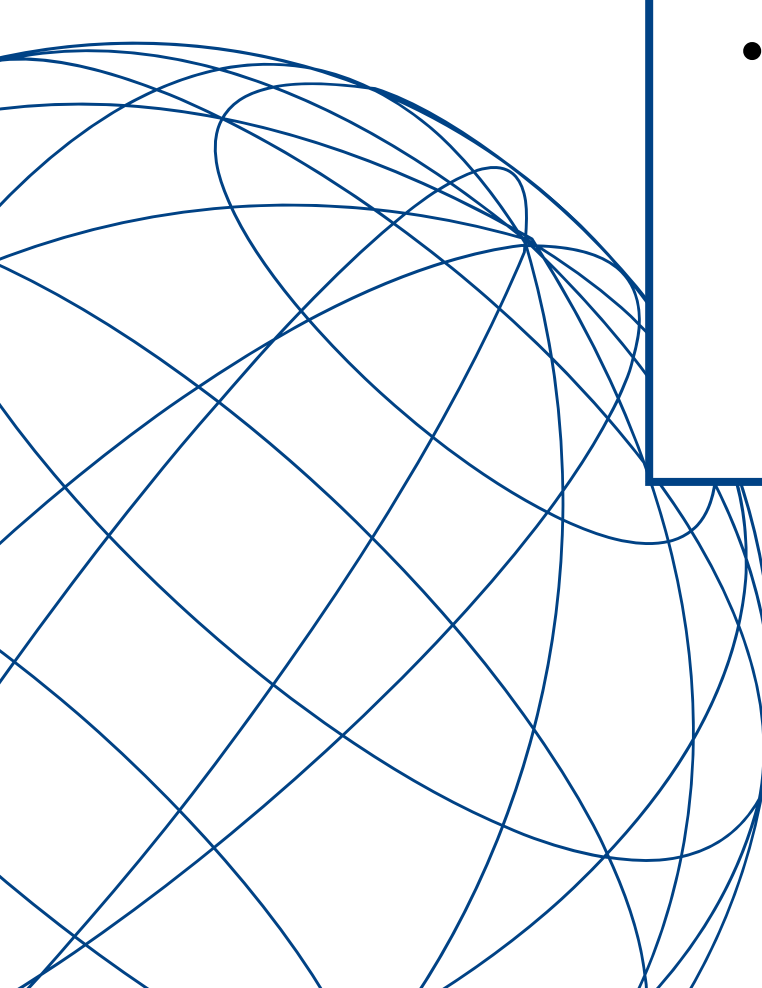
- Odeny B. Closing the health equity gap: A role for implementation science?. PLoS Medicine. 2021 Sep 14;18(9):e1003762. <https://doi.org/10.1371/journal.pmed.1003762>
- Snell-Rood C, Jaramillo ET, Hamilton AB, Raskin SE, Nicosia FM, Willging C. Advancing health equity through a theoretically critical implementation science. Translational behavioral medicine. 2021 Aug 1;11(8):1617-25. <https://doi.org/10.1093/tbm/ibab008>[LB1]
- Castro FG, Barrera M, Martinez CR. The cultural adaptation of prevention interventions: Resolving tensions between fidelity and fit. Prevention science. 2004 Mar;5:41-5. <https://doi.org/10.1023/b:prev.0000013980.12412.cd>

DAY 3



DAY 4

	Thursday 11th July 2024
9.00 – 9.30	RECAP AND Q&A DAY 3
9.30 – 11.00 Session 1 (Lecture)	Prof. Vilma Irazola, University of Buenos Aires (AR) The role of adaptation in implementation science
BREAK	
11.30 – 13:00 Session 2 (Group-work)	Challenge-based learning assignment; protocol development and presentation preparation
LUNCH	
14:00 – 15:30 Session 3 (roundtable)	Prof. Hans van Delden, UMC Utrecht (NL) Implementation research with vulnerable populations - roundtable discussion
BREAK	
15:30-16:00 Session 4	Izzy Bandurek, GACD A short introduction to the Global Alliance of Chronic Disease
<p>DAY 4 - PRE READING</p> <p>Session 3</p> <ul style="list-style-type: none">• Odeny B. Closing the health equity gap: A role for implementation science?. PLoS Medicine. 2021 Sep 14;18(9):e1003762. https://doi.org/10.1371/journal.pmed.1003762• Snell-Rood C, Jaramillo ET, Hamilton AB, Raskin SE, Nicosia FM, Willging C. Advancing health equity through a theoretically critical implementation science. Translational behavioral medicine. 2021 Aug 1;11(8):1617-25. https://doi.org/10.1093/tbm/ibab008• Castro FG, Barrera M, Martinez CR. The cultural adaptation of prevention interventions: Resolving tensions between fidelity and fit. Prevention science. 2004 Mar;5:41-5. https://doi.org/10.1023/B:PREV.0000013980.12412.cd	

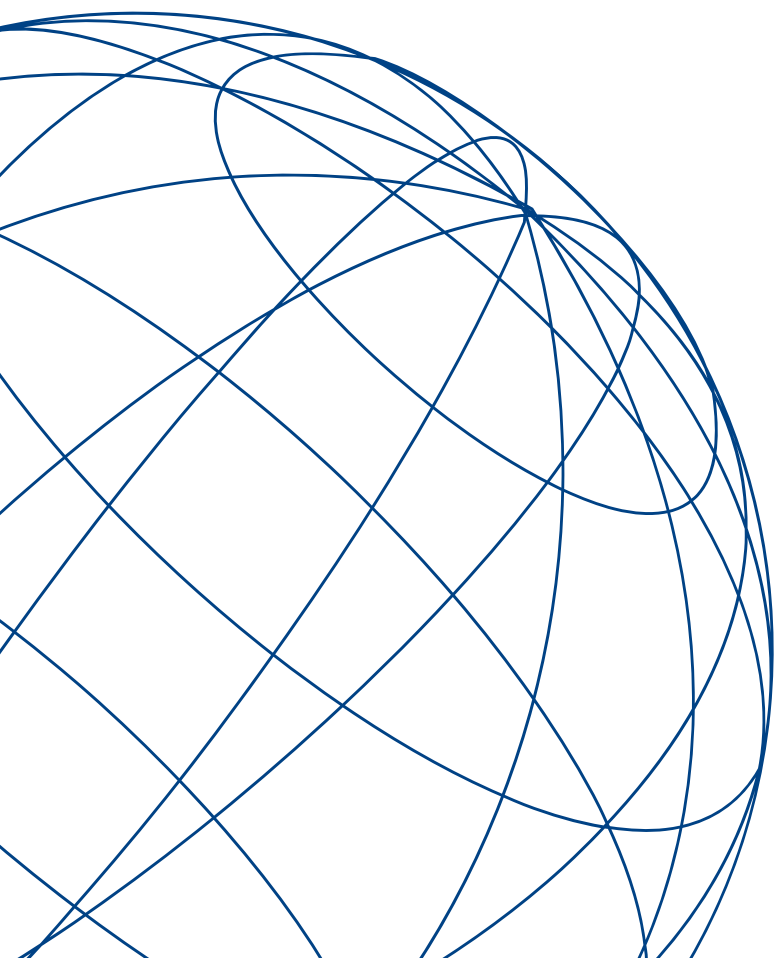


DAY 4

DAY 4 - PRE READING (CONTINUED)

Session 4

- Seward N, Hanlon C, Hinrichs-Kraples S, Lund C, Murdoch J, Salisbury TT, Verhey R, Shidhaye R, Thornicroft G, Araya R, Sevdalis N. A guide to systems-level, participatory, theory-informed implementation research in global health. *BMJ global health*. 2021 Dec 1;6(12):e005365. <https://doi.org/10.1136/bmjgh-2021-005365>
- Pinnock H, Barwick M, Carpenter CR, Eldridge S, Grandes G, Griffiths CJ, Rycroft-Malone J, Meissner P, Murray E, Patel A, Sheikh A. Standards for reporting implementation studies (StaRI) statement. *bmj*. 2017 Mar 6;356. <https://doi.org/10.1136/bmj.i6795>
- Kirchner JE, Smith JL, Powell BJ, Waltz TJ, Proctor EK. Getting a clinical innovation into practice: an introduction to implementation strategies. *Psychiatry research*. 2020 Jan 1;283:112467. <https://doi.org/10.1016/j.psychres.2019.06.042>
- [Global Alliance for Chronic Disease webpage](#) – examples of [implementation projects](#)



SYMPOSIUM: A GLOBAL PERSPECTIVE ON NCDs

This is an optional activity, but please RSVP to this event by completing this sign-up form.

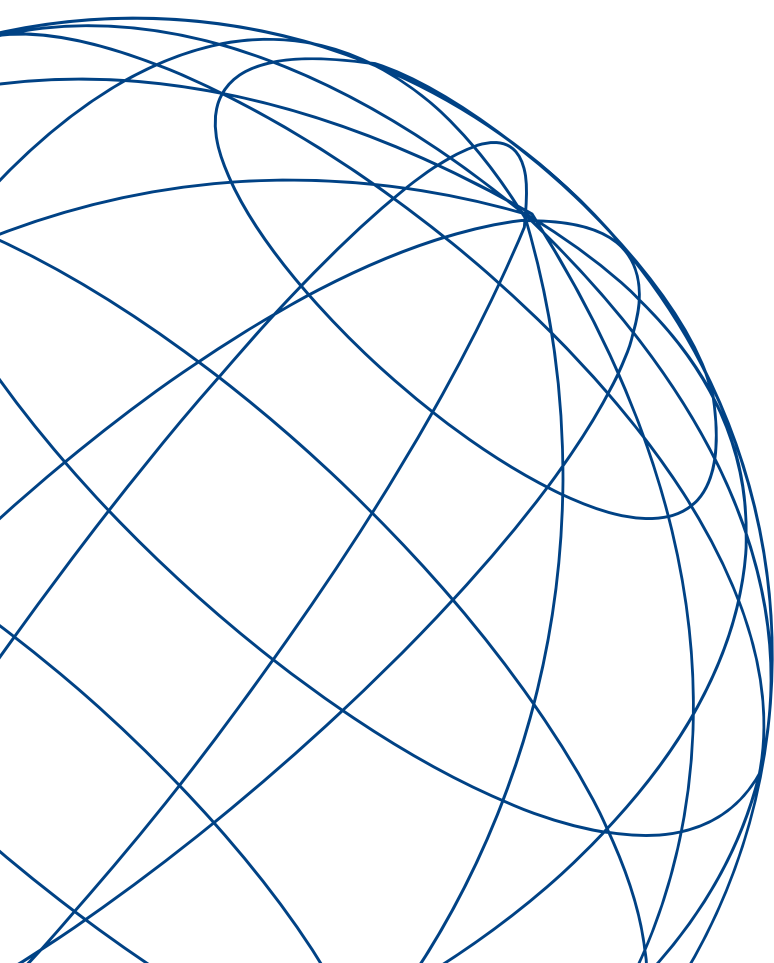
When: Tuesday 11th July, 19:00-22:00

Where: Academiegebouw (Domplein 29, 3512 JE Utrecht).

What: Get together on World Population Day at our engaging symposium focused on "A Global Perspective on Non-Communicable Diseases (NCDs)." This gathering, zooming in on the increasing burden of chronic disease on population health, organised by Julius Global Health (UMC Utrecht, Universiteit Utrecht), and Knowledge Centre Global Health (KCGH), features a lineup of two keynote speakers to reflect on regional perspectives and global learnings in the prevention and management of NCDs, providing lessons important for all. Discussing non-communicable diseases (NCDs) on World Population Day is highly relevant as NCDs are a major global health challenge that disproportionately affects the rapidly growing populations in low-to-middle income countries. Highlighting this issue aligns with the day's focus on population-related challenges and underscores the urgent need for scalable and sustainable health solutions to combat these diseases, which are the leading cause of mortality worldwide. This convergence offers an opportunity to address the social, economic, and health impacts of NCDs on global demographics.

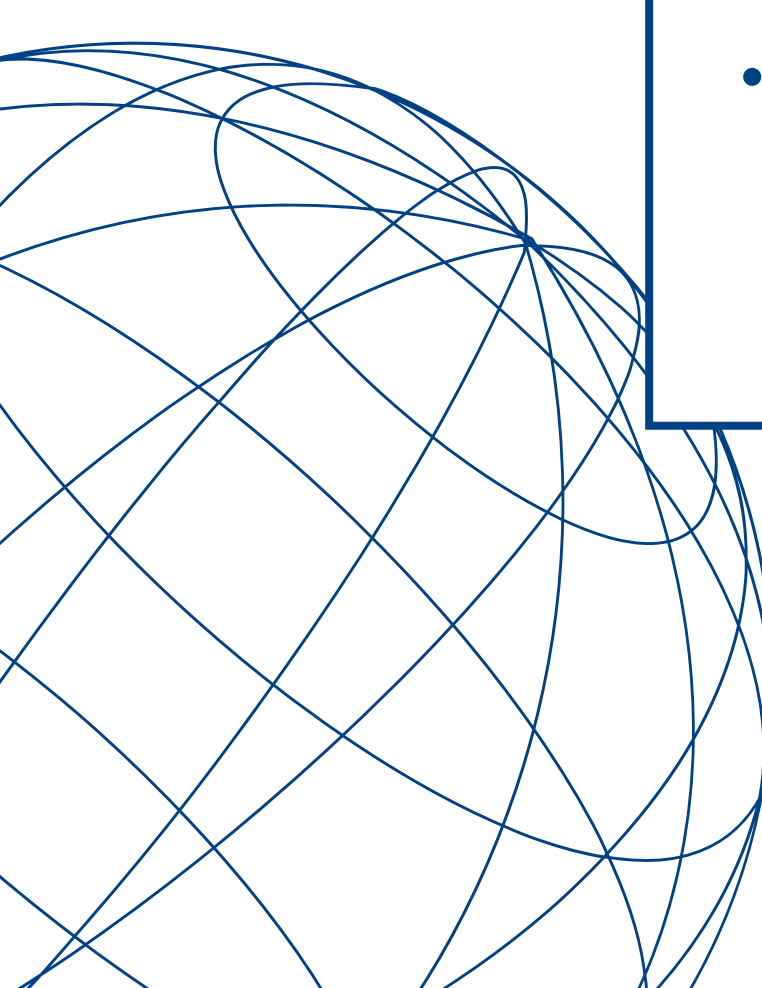
Programme Overview:

- 19.00 - 19.05: Welcome and opening by Dr. Martin Heine, UMCU
- 19:05 - 19:35: Keynote Address by Prof. Vilma Irazola
- 19:35 - 20:05: Keynote Address by Prof. Elvin Geng
- 20:05 - 20.45: Panel Discussion: Prof. Vilma Irazola, Prof. Elvin Geng, Dr. Arti Singh and Prof. Oscar Franco
- 20:45-22:00: Networking & Drinks



DAY 5

	Friday 12th July 2024
9.00 – 9.30	RECAP AND Q&A DAY 4
9.30 – 11.00 Session 1 (Lecture)	Dr. Lisa Pfadenhauer, LMU (DE) Implementation science and commercial determinants of health
BREAK	
11.30 – 13:00 Session 2 (Lecture)	Monika Martens, University of Antwerp Impacting policy - the Kingdon multiple streams model
LUNCH	
14:00 – 15:00 Session 3 (Group-work)	Challenge-based learning assignment; assignment presentations. Chaired by Izzy Bandurek, Global Alliance of Chronic Disease
CLOSING	
<p style="text-align: center;">DAY 5 - PRE READING</p> <p>Session 2 (optional)</p> <ul style="list-style-type: none">• Martens M, van Olmen J, Wouters E, Boateng D, Van Damme W, Van Belle S. Using the multiple streams model to elicit an initial programme theory: from policy dialogues to a roadmap for scaling up integrated care. <i>BMJ Global Health</i>. 2023 Sep 1;8(9):e012637. https://doi.org/10.1136/bmjgh-2023-012637• Howlett M, McConnell A, Perl A. Moving policy theory forward: Connecting multiple stream and advocacy coalition frameworks to policy cycle models of analysis. <i>Australian Journal of Public Administration</i>. 2017 Mar;76(1):65-79. https://doi.org/10.1111/1467-8500.12191• Howlett M, McConnell A, Perl A. Streams and stages: Reconciling Kingdon and policy process theory. <i>European Journal of Political Research</i>. 2015 Aug;54(3):419-34. https://doi.org/10.1111/1475-6765.12064• Wong G. Special invited editorial: getting started with realist research. <i>International Journal of Qualitative Methods</i>. 2015 Dec 9;14(5):1609406915621428. https://doi.org/10.1177/1609406915621428	



FURTHER READING

Peters DH, Adam T, Alonge O, Agyepong IA, Tran N. Implementation research: what it is and how to do it. *Bmj*. 2013 Nov 20;347

Proctor EK, Powell BJ, McMillen JC. Implementation strategies: recommendations for specifying and reporting. *Implementation science*. 2013 Dec;8:1-1.

Powell BJ, Fernandez ME, Williams NJ, Aarons GA, Beidas RS, Lewis CC, McHugh SM, Weiner BJ. Enhancing the impact of implementation strategies in healthcare: a research agenda. *Frontiers in public health*. 2019 Jan 22;7:3.

Powell BJ, Waltz TJ, Chinman MJ, Damschroder LJ, Smith JL, Matthieu MM, Proctor EK, Kirchner JE. A refined compilation of implementation strategies: results from the Expert Recommendations for Implementing Change (ERIC) project. *Implementation science*. 2015 Dec;10:1-4.

Damschroder LJ, Aron DC, Keith RE, Kirsh SR, Alexander JA, Lowery JC. Fostering implementation of health services research findings into practice: a consolidated framework for advancing implementation science. *Implementation science*. 2009 Dec;4:1-5.

Birken SA, Powell BJ, Shea CM, Haines ER, Alexis Kirk M, Leeman J, Rohweder C, Damschroder L, Presseau J. Criteria for selecting implementation science theories and frameworks: results from an international survey. *Implementation Science*. 2017 Dec;12:1-9.

Wiltsey Stirman S, Baumann AA, Miller CJ. The FRAME: an expanded framework for reporting adaptations and modifications to evidence-based interventions. *Implementation Science*. 2019 Dec;14:1-0.

Holtrop JS, Gurfinkel D, Nederveld A, Phimphasone-Brady P, Hosokawa P, Rubinson C, Waxmonsky JA, Kwan BM. Methods for capturing and analyzing adaptations: implications for implementation research. *Implementation Science*. 2022 Jul 29;17(1):51.

Chambers DA, Emmons KM. Navigating the field of implementation science towards maturity: challenges and opportunities. *Implement Sci*. 2024 Mar 13;19(1):26.

