Caring for a diverse population: when data and policy come together

PD Dr Julia Brandenberger, MD PhD November 28th 2025 | Health Equity Forum Bern, Switzerland









Context



Bern Toronto

Pediatric emergency clinician-scientist, working in high-income countries with high population diversity

Case study Inselspital, Bern, Switzerland

- Jonathan 4 y, Eritrean
- Sore throat since 4 months
- 3 times seen by GP

→ Non-urgent triage score
 Seen by doctor in residency new to pediatrics

Status	V	Triage	Eintritt	Aufenthaltsort	Patient	Diagnose	Alter	Gewicht
V-			14:30	Koje 4		Dyspnoe mit 6l O2, Trisomie 21, Inhalation mit 5 mehr	5 9/12 Jahre	
•			14:02	Koje 2		Fieber, Husten, Va Pneumonie : War gestern und h mehr	3 3/12 Jahre	14.3 kg
•			13:49	Wartezimmer		Sturz auf Kopf	1 5/12 Jahre	12.5 kg
			14:15		**************************************	Radiushalsfraktur, anguliert nach radial und ven mehr	8 4/12 Jahre	25 kg
•			13:21	Wartezimmer		Verletzung Gingiva, Zahnhälse liegen frei, haben mehr	6 3/12 Jahre	25 kg
			14:14	Wartezimmer	A	Otitis externa, hat jetzt jetzt eher Zunahme Sch mehr	8 4/12 Jahre	39 kg
•			10:54	ER	<u> </u>	Zuweisung von RX, Nagelkranzfraktur DIG 1	6 5/12 Jahre	31.2 kg
			13:14	Beo 1	Bresing Arial (m), 25 00 2010	Husten, Schnupfen, Erbrechen, Durchfall, Fieber	1 5/12 Jahre	9.3 kg
•			12:30	Gipsraum		Stauchungsfraktur distaler Radius rechts	8 4/12 Jahre	25 kg
•			13:11	Beo 1	C	Fieber, Durchfall, Erbrechen	3 Monate	5.1 kg

History and exam

History:

Frequent episodes with «sore throat»

Exam:

Throat without pathology Paresis eye-muscle

Additional information:

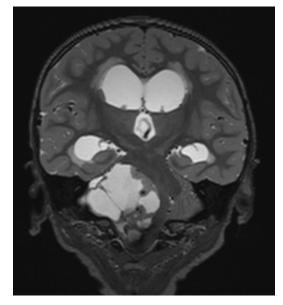
Picture from mother: opisthotone position

Brain tumor (Ependymoma WHO grade II)

Signs of increased intracranial pressure



with the kind permission of the family



Case study SickKids Toronto, Canada

5 year old immigrant male

Worsening shortness of breath since 2 days

Needs interpreter for language common in Subsaharan

Africa

moderate tachypnoea, normocardic

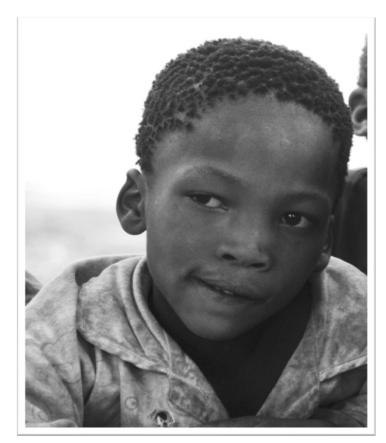
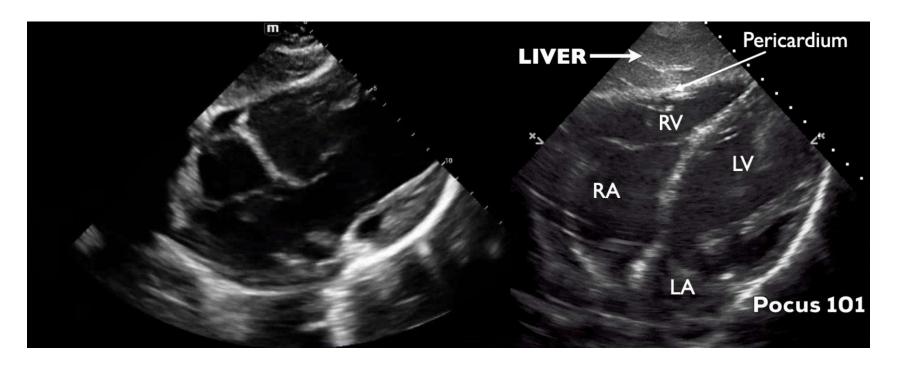


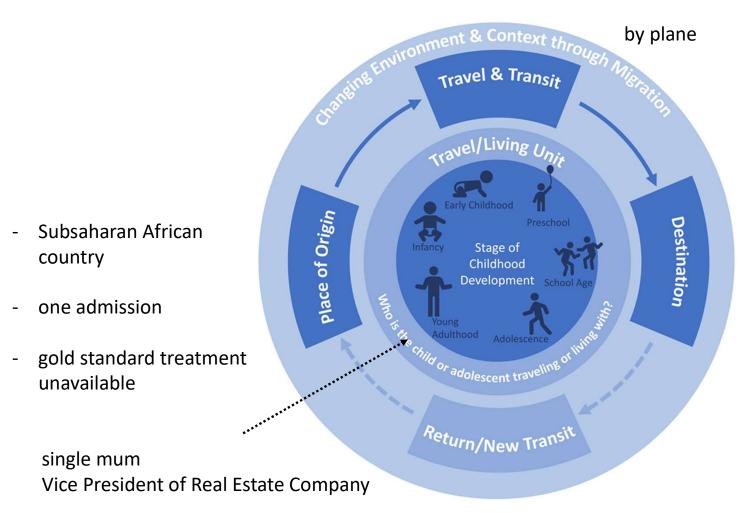
Image: photographer: Izla Kaya Bardavid

Complex cardiac heart disease



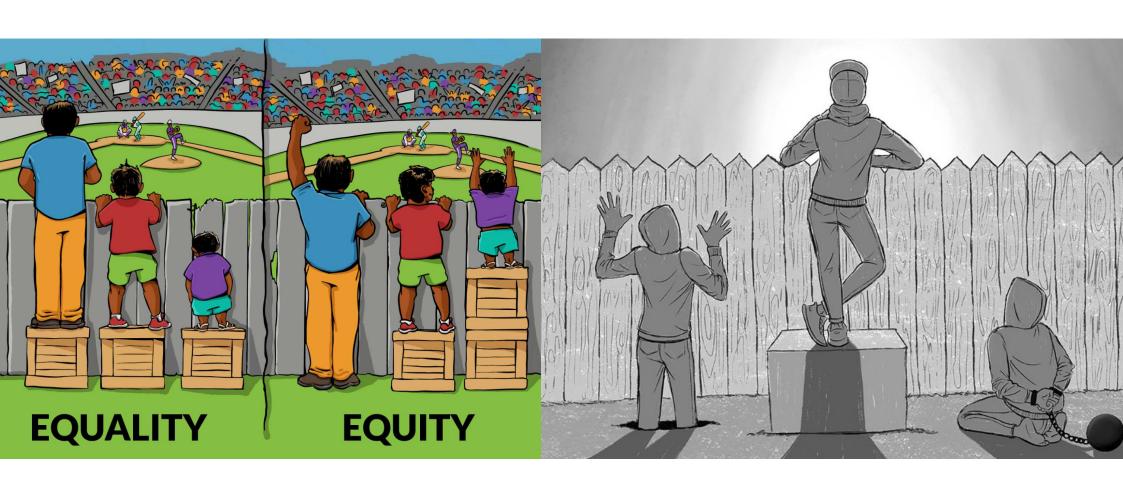
unrepaired double inlet LV with discordant VA connection with a large VSD and intact atrial septum

Pediatric migration cycle - understanding the journey



- Moved to Toronto in **December** 2022 to get treatment for her son
- Difficulty to access care due to administrative burden
- → ED in **February 2023** as he acutely developped SOB

Wiemker V, Nijman RG, Brandenberger J. Imagine every child healthy: Transforming paediatric migrant health through participation and collaboration in Europe. Acta Paediatr. 2024;00:1–4. https://doi.org/10.1111/apa.1756116512227





1. Understand own bias & redirect thinking about difference

2. Redefine research priorities & interventions

Healthy inequity Health equity

1. Understand own bias & redirect thinking about difference

富山知事口字

'We see only what we know'

Japanese proverb





Trends in Human Development Index 1990-2023 Switzerland scores 2/197 countries

MIPEX Anti-discrimination score

Switzerland scores 48/55 countries

			Н	uman Develop	oment Index (HD	.01)			Country	Score	Country	Score	Country	Score
	Value								XX North Macedonia	100	Netherlands	85	lceland	57
HDI RANK	1990	2000	2010	2015	2020	2021	2022	2023	Bulgaria	100	◆ Brazil	85	<u> </u>	56
Very high human development														
1 Iceland	0.841	0.902	0.935	0.956	0.965	0.967	0.964	0.972	South Africa	100	- Chile	85	Austria	53
2 Norway	0.856	0.924	0.947	0.959	0.969	0.969	0.967	0.970	Sweden	100	Moldoya	84	★ Korea	51
2 Switzerland	0.858	0.892	0.945	0.957	0.963	0.968	0.966	0.970	Belgium	100	Slovakia	79	Lithuania	51
4 Denmark	0.844	0.896	0.920	0.943	0.954	0.958	0.959	0.962					Construction of the constr	
5 Germany	0.834	0.897	0.936	0.948	0.955	0.958	0.955	0.959	 ◆ Canada	100	■ France	79	Denmark	51
5 Sweden	0.818	0.912	0.918	0.945	0.951	0.958	0.959	0.959	Portugal	100	I Italy	78	Albania Albania	50
7 Australia	0.867	0.897	0.929	0.938	0.950	0.954	0.952	0.958	+ Finland	100	Croatia	71	C Turkey	50
8 Hong Kong, China (SAR)	0.755	0.839	0.912	0.937	0.950	0.961	0.950	0.955	USA	97		70	■ Estonia	10
8 Netherlands	0.855	0.900	0.925	0.940	0.945	0.951	0.953	0.955		97	Germany	70		48
10 Belgium	0.824	0.894	0.921	0.933	0.939	0.948	0.945	0.951	Romania Romania	96	Australia	69	Switzerland	38
11 Ireland	0.776	0.869	0.915	0.931	0.948	0.946	0.947	0.949	Hungary	96	Latvia	67	United Arab Emirates	38
12 Finland	0.823	0.898	0.920	0.938	0.947	0.949	0.946	0.948	Ukraine	94	I≡ Greece	67	Russia	22
13 Singapore	0.819	0.882	0.932	0.935	0.944	0.948	0.942	0.946			VALUE OF THE PARTY			
13 United Kingdom	0.812	0.870	0.921	0.931	0.930	0.941	0.946	0.946	United Kingdom	94	Mexico	67	China	19
15 United Arab Emirates	0.713	0.790	0.835	0.857	0.909	0.903	0.921	0.940	■ Ireland	94	Norway Norway	65	 Japan 	16
16 Canada	0.865	0.894	0.918	0.932	0.931	0.937	0.935	0.939	Serbia	90	Czechia	64	Saudi Arabia	15
17 Liechtenstein	54	0.882	0.914	0.925	0.929	0.933	0.936	0.938			100			
17 New Zealand	0.811	0.896	0.926	0.934	0.940	0.939	0.933	0.938	Slovenia	90	* Malta	63	- Indonesia	13
17 United States	0.878	0.895	0.919	0.928	0.925	0.921	0.930	0.938	Luxembourg	89	Poland	63	India	9
									New Zealand	88	€ Cyprus	62	Jordan	4
								Ī	- Argentina	88	Spain	59		

Understand own bias > Redirect thinking about difference > Redefine interventions

Human Development report 2025 UNDP HDR - A Matter of Choice - Full Report.pdf

Anti-discrimination | MIPEX 2020

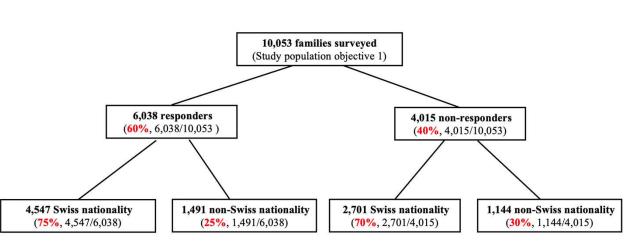
How did the caregivers with limited local language proficiency experience the quality of care?

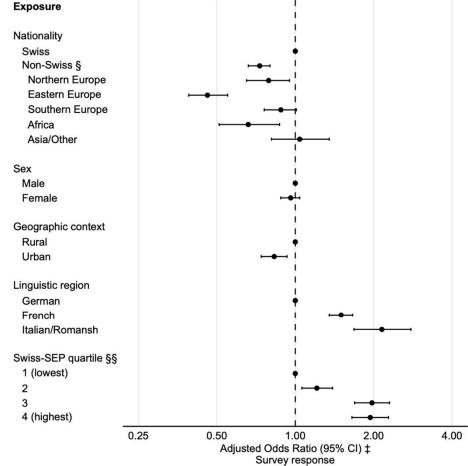
I asked for an interpreter, but I was told it was too expensive and I couldn't get one. Then I called a friend, she interpreted for me. But it was about very intimate things and then everyone noticed. You can't do that!

(B 99; Satisfaction score 3 (1 worst - 6 best))

The satisfaction of caregivers with limited language proficiency with the quality of pediatric emergency care related to the use of professional interpreter services – a mixed methods study; Gmünder M, Gessler N, Buser S, Feuz U, Fayyaz J, Jachmann A, Keitel K and Brandenberger J; 2023; BMJ open

Nationality and response to measles vaccine survey



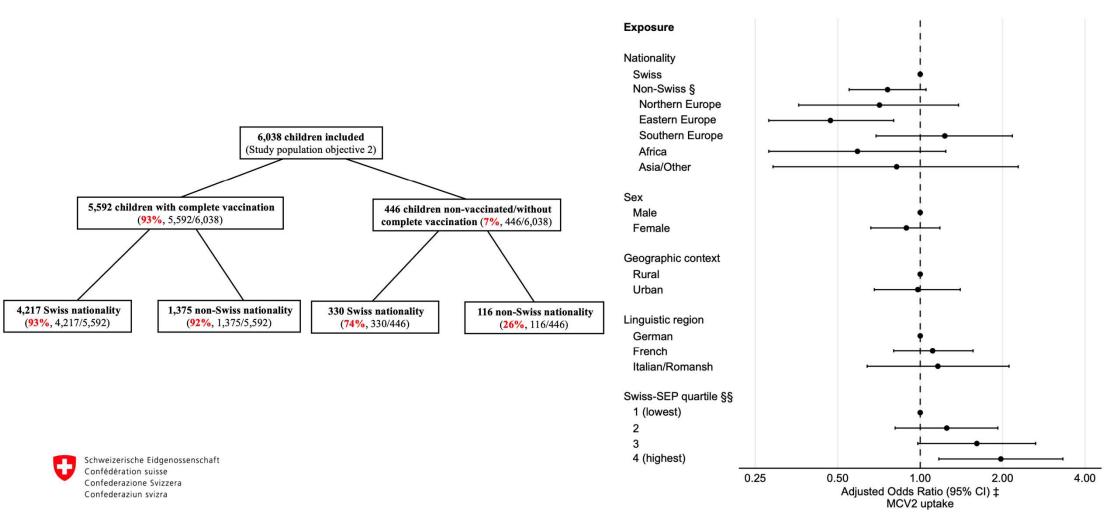


Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra

Nationality and survey response

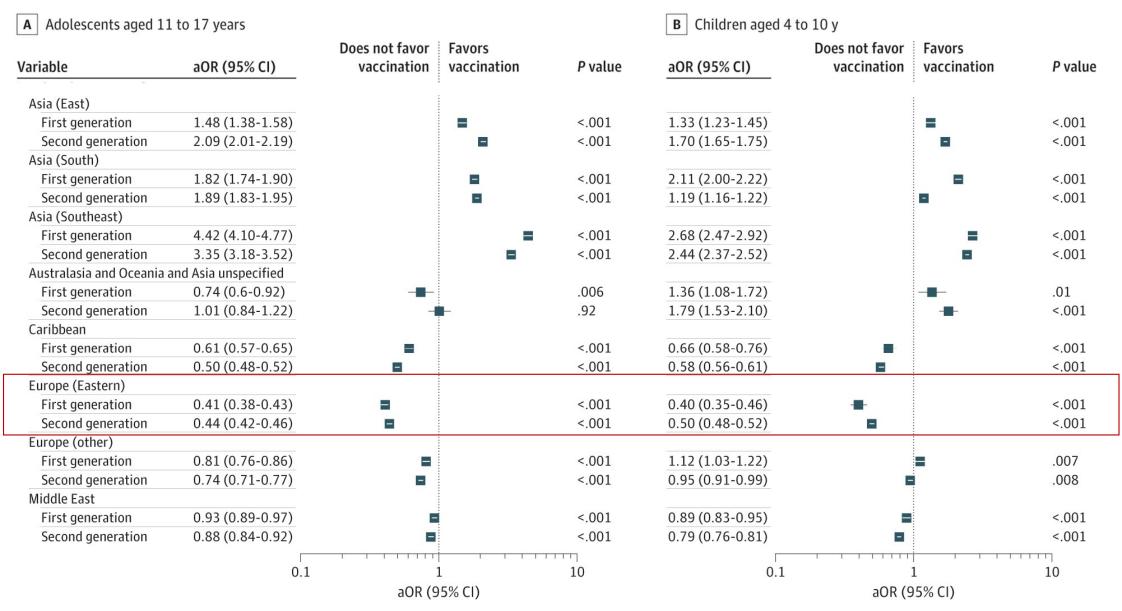
Unpublished results – please do not photograph, copy, or share

Nationality and measles vaccine uptake

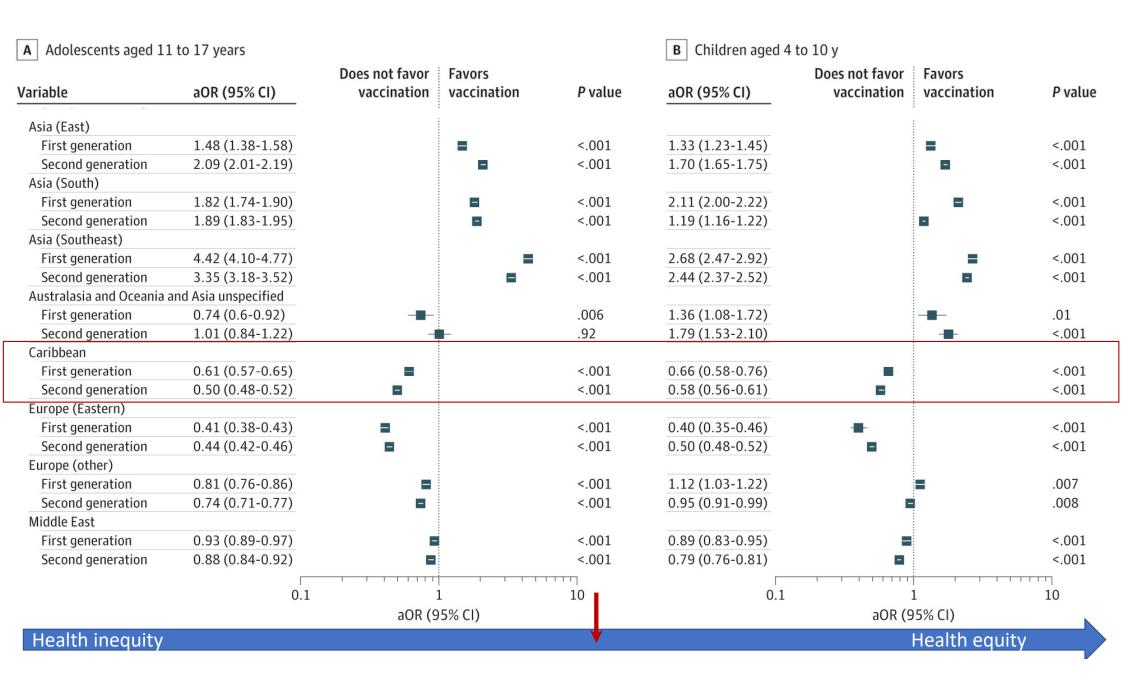


Unpublished results – please do not photograph, copy, or share.

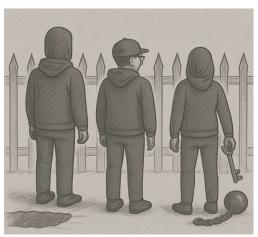
Nationality and measles vaccine uptake

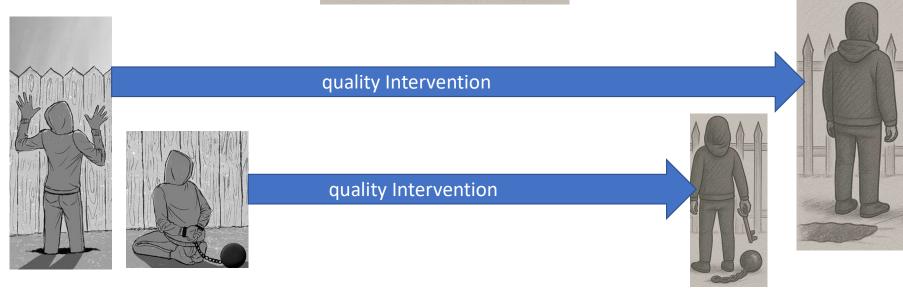


Brandenberger J, Duchen R, Lu H, et al. COVID-19 Vaccine Uptake in Immigrant, Refugee, and Nonimmigrant Children and Adolescents in Ontario, Canada. JAMA Netw Open. 2023;6(7):e2325636. doi:10.1001/jamanetworkopen.2023.25636



2. Redefine research priorities & interventions





Qualitative studies: mistrust due to discrimination

→ major reason for under vaccination in Afro Canadian persons

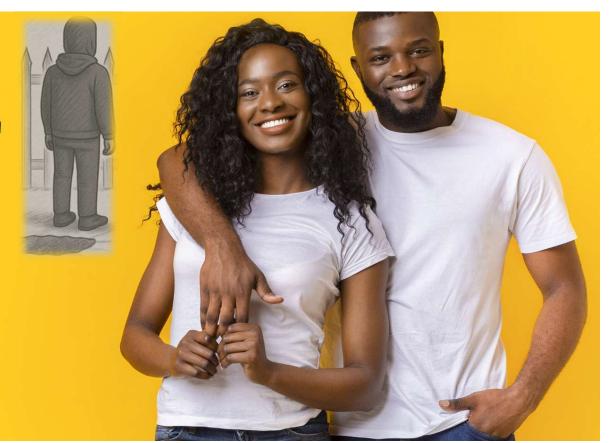
"I am personally concerned whether or not the vaccines developed have been tested with enough Black people, and whether or not the people experiencing adverse events are dis proportionately Black. Can you illuminate us with reliable data that address this point?"

Frequently asked question of Afrocanadian interviewees

quality intervention

BLACK SCIENTISTS' TASK FORCE ON VACCINE EQUITY

The Black Scientists' Task Force on Vaccine Equity (BSTF) was formed in December 2020. The Task Force consists of a team of physicians, specialists, public health and research consultants, immunologists, scientific regulators, mental health experts, and naturopathic physicians. This multidisciplinary team of Black experts was created to share information about COVID-19 and vaccines with the Black Toronto communities and to address their concerns about COVID-19-related issues. Through community, organization, government, health and medical professionals, and academics, the Task Force aimed to promote the Black Canadian community's well-being and health. The goal was to mitigate health disparities and health inequities faced by Black communities in Canada through a tailored response.



COVID-19 vaccine equity: a retrospective population-based cohort study examining primary series and first booster coverage among persons with a history of immigration and other residents of Ontario, Canada

There is effectiveness, efficiency and efficacy in race and health equity

www.torontoblackcovid.com

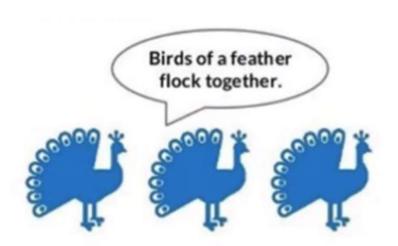
Region of Birth Central Africa 0.60 (0.58-0.61) 0.36 (0.34-0.37) Western Africa 0.88 (0.87-0.89) 0.67 (0.66-0.67) East Africa 0.87 (0.87-0.88) 0.62 (0.61-0.63) Southern Africa 1.02 (1.01-1.03) 1.07 (1.06-1.08) Middle East 0.92 (0.91-0.92) 0.71 (0.71-0.71) North Africa 0.90 (0.89-0.91) 0.69 (0.68-0.70) Central America 0.92 (0.92-0.93) 0.81 (0.80-0.82) South America 0.98 (0.98-0.99) 0.89 (0.88-0.89) Caribbean 0.75 (0.75-0.76) 0.59 (0.59-0.59) North America 0.88 (0.88-0.89) 0.91 (0.90-0.91) East Asia 0.99 (0.99-0.99) 0.95 (0.94-0.95) Australasia & Oceania 0.99 (0.98-1.00) 1.04 (1.02-1.06) Southeast Asia 1.08 (1.08-1.08) 1.12 (1.12-1.12) South Asia 1.05 (1.05-1.05) 0.91 (0.90-0.91) Eastern Europe 0.67 (0.67-0.68) 0.48 (0.48-0.49) **Europe Other** 0.89 (0.89-0.89) 0.79 (0.79-0.80) All Other Ontarians (Ref) 1.00 (Reference) 1.00 (Reference)

Primary Series

■ First Booster



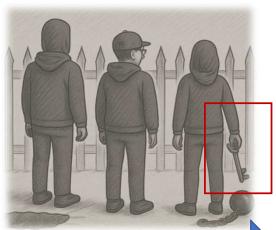
The underestimated value of lived experience







Priority setting of research questions done by persons with lived experience







Refugees and Migrants in Europe – Adolescent and Child Health

Official Strategic Advisory Group of the European Academy of Pediatrics (EAP) since 2023

Members: Pediatricians, Healthworkers & Migrant Caregivers across Europe

Vision: across Europe, migrant and refugee minors receive equitable quality of health care compared to their local peers



Creation of Steering Committee

14 former migrant children, youth & caregivers; health workers; and "double experts"

Spring 2024

1st Mi-CARE Survey – Gathering Uncertainties

Europe-wide online survey, 13 languages, > 1600 questions submitted from > 250 respondents

Oct — Dec 2024

> 1600 submissions

Data Preparation (online + In-Person Workshop)

Data cleaning, qualitative analysis, evidence checking, formation of summary questions

Dec - Feb 024

53 summary questions

2nd Mi-CARE Survey – Priority Setting

53 summary questions ranked via Europe-wide online survey (modified Delphi technique)

Mar — May 2025

25 priorities

Final Priority Setting Workshop – BASEL

Determine Top 10 priorities based on data from 2nd Survey

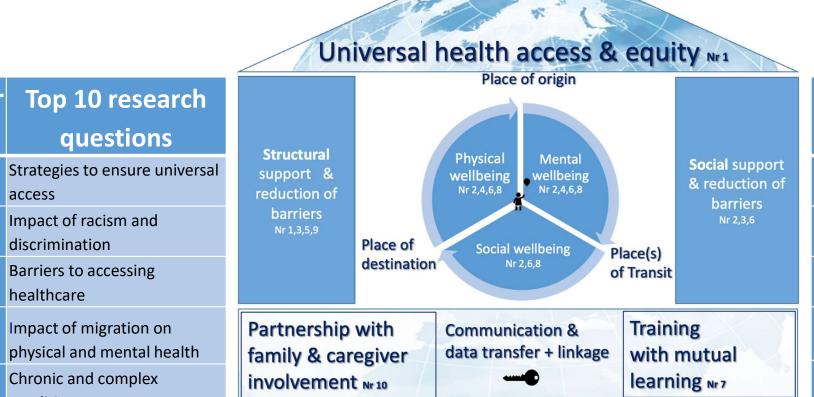
June 4-8, 2025

Publish and promote the Top 10 migrant child health research priorities

Top 10

Top 10 Research Priorities for Pediatric Migrant Health in Europe

Unpublished results – please do not photograph, copy, or share.



Nr							
	questions						
6	Influence of social factors in						
	host countries						
7	Training for healthcare						
	workers						
8	Specific healthcare needs of						
	unaccompanied minors						
9	Access to professional						
	language support						
10	Strengthening parental						
	involvement						

Unpublished results – please do not photograph, copy, or share.

Top 10 research

questions

Impact of racism and

Barriers to accessing

Impact of migration on

Chronic and complex

physical and mental health

discrimination

healthcare

conditions

access



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