GVIR-F Workshop 9: Building and Sustaining Uptake Summary of the latest evidence and open research questions



Professor Julie Leask

Susan Wakil School of Nursing and Midwifery,

University of Sydney

National Centre for Immunisation Research and Surveillance

@julieleask

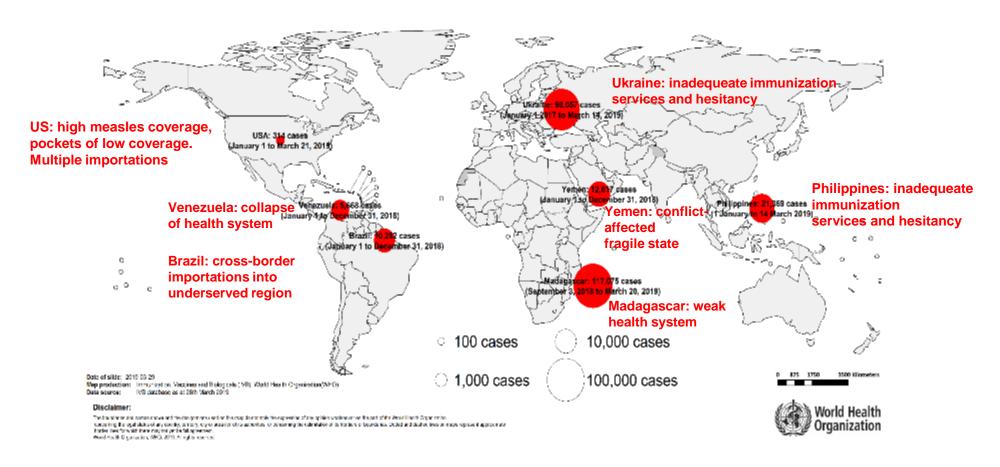




Vaccine hesitancy

Measles Outbreaks in All Regions with Increased Size and Frequency

Selected Ongoing Measles Outbreaks





Vaccine hesitancy

Fragile and vulnerable settings

Weak primary health care

Public attributions





Anti-vaxxers blamed for Samoan measles epidemic

Bornard Lagan, Sydrey

November 29 2019, 9 allow,
The Tirons

Charity

Try or Wincersonia, right, with her husbanc, Frank, a rugby player. She runs workshops on the dangers of vaccinations and has





Measurement





Minding the gap: current measures

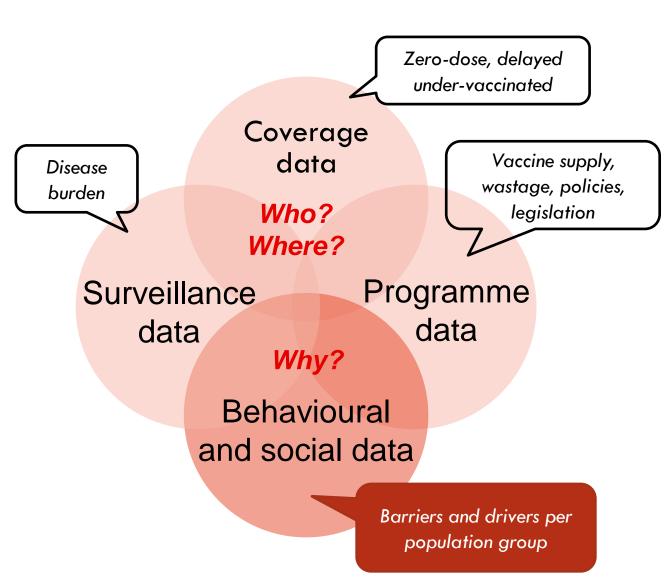
- Focus on attitudes, less on practical and logistical barriers
- Some validated, some not
- Not standardized
- Caught in supply/demand binary
- Findings not used

The answers you get are as good as the questions you ask

A solution: Measuring BeSD of vaccination

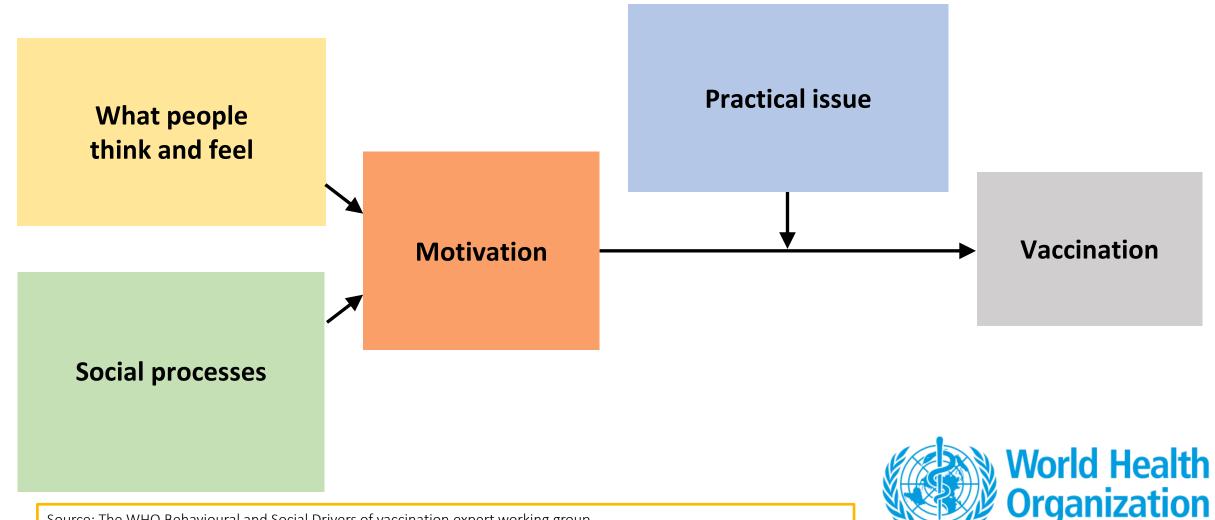
Globally standardised tools to measure the behavioural and social drivers.

- Identify and address influences on behaviour
- Target and evaluate strategies in specific contexts
- Examine trends over time
- Better plan for what's ahead





Influences on vaccination uptake



Source: The WHO Behavioural and Social Drivers of vaccination expert working group.

Based on: Brewer NT, Chapman GB, Rothman AJ, Leask J, and Kempe A (2017). Increasing vaccination: Putting psychological science into action. *Psychological Science for the Public Interest.* 18(3): 149-207

Page 11

What will influence COVID-19 vaccine uptake?

What people think and feel

Confidence in vaccine benefits
Confidence in vaccine safety
Perceived risk – self
*Perceived risk – patients
Seeing negative information

Social processes

Influential others support vaccination
Vaccination norms
*Workplace norms
Decision and travel autonomy
Trust in vaccine providers
*Confidence in answering questions

Motivation

Intention to
get a Covid-19 vaccine
*Willingness to recommend
a Covid-19 vaccine

Practical issues

Know where vaccine is available
Previous uptake of adult vaccination
Ease of access
*Preferred site
*Availability of on-site vaccination

Vaccination

Receives recommended vaccines

*Construct is exclusive to health worker survey

Source: Unpublished, The BeSD expert working group.

Based on: Brewer NT, Chapman GB, Rothman AJ, Leask J, and Kempe A (2017). Increasing vaccination: Putting psychological science into action. *Psychological Science for the Public Interest*. 18(3): 149-207

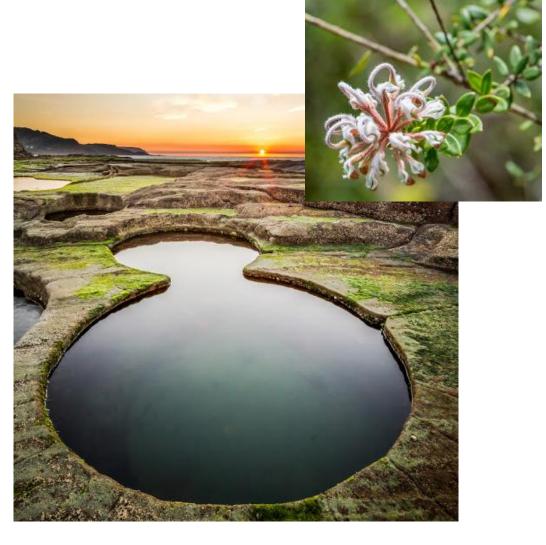




Quantitative Survey

- Broad area

e University of Sydney Patterns and broad features



Qualitative Interviews

- Small area
- Rich detail

What are the tools and guidance available?

Childhood vaccination: (est. Nov 2018)

- <u>BeSD survey</u>: Targeted to parents/caregivers
- <u>BeSD interview guides</u>: Targeted to parents, providers, community stakeholders, and authorities.
- <u>Implementation guidance</u>: Covering data gathering, analysis, use, with mapping to indicators and data for action frameworks

COVID-19 vaccines: (est. Aug 2020)

- BeSD surveys x2: Targeted to
 1) Adults, 2) Health workers
- BeSD interview guides x2: to 1)
 Adults, 2) Health workers
- Implementation guidance: Covering data gathering, analysis, use, with mapping to indicators and data for action frameworks
- + A global repository will make available trends, insights, case studies and learning
- + Technical assistance, including capacity-building for local research and M&E



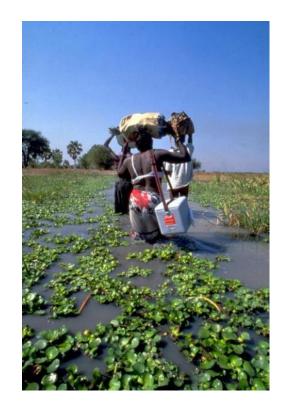


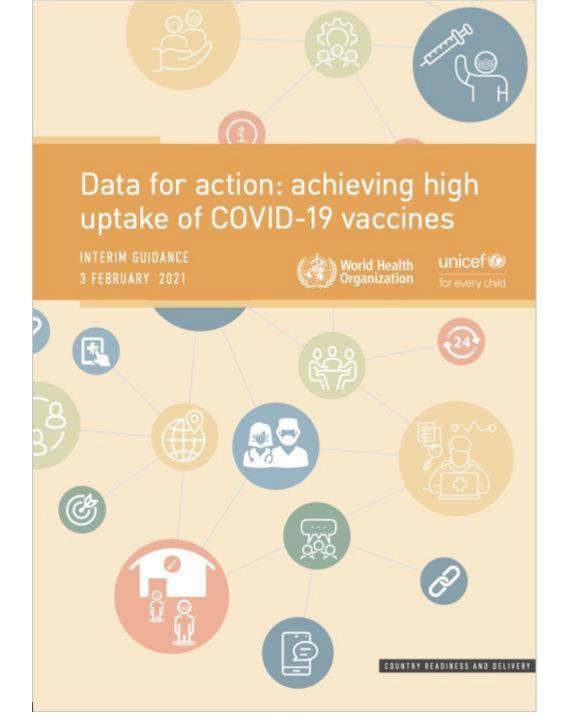






The challenge Standardization across multiple contexts





BeSD COVID-19 working group

- · Noel Brewer (University of North Carolina, United States of America); Chair
- Julie Leask (University of Sydney, Australia);
- Neetu Abad (United States Centers for Disease Control);
- Helena Ballester Bon (United Nations Children's Fund [UNICEF]);
- Cornelia Betsch (University of Erfurt, Germany);
- Melissa Gilkey (University of North Carolina, United States of America);
- Abdul Momin Kazi (Aga Khan University, Pakistan);
- Ana Lisa Ong-Lim (University of the Philippines, Manila);
- Aaron Scherer (University of Iowa, United States of America);
- Holly Seale (University of New South Wales, Australia);
- Smita Singh (Gavi, the Vaccine Alliance);
- Gillian SteelFisher (Harvard University, United States of America);
- Kerrie Wiley (University of Sydney, Australia);
- Charles Wiysonge (Cochrane South Africa).

Also

Erin James, Amyn Malik and Saad Omer (Yale University, United States of America)

Aybüke Koyuncu and Dimitri Prybylski (US, CDC)

Gilla Shapiro (University of Toronto, Canada)

Influences on vaccination uptake

How important do you think getting a COVID-19 vaccine will be for your health? Would you say...

- ☐ Not at all important
- ☐ A little important
- ☐ Moderately important
- ☐ Very important

How easy is it to get vaccination services for yourself? Would you say...

- ☐ Not at all easy
- □ A little easy
- □ Moderately easy
- ☐ Very easy

Motivation

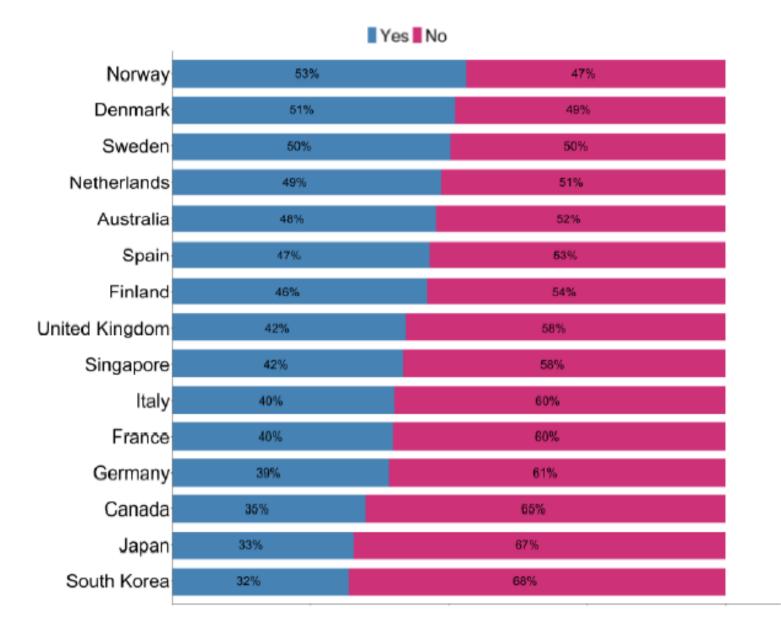
Vaccination

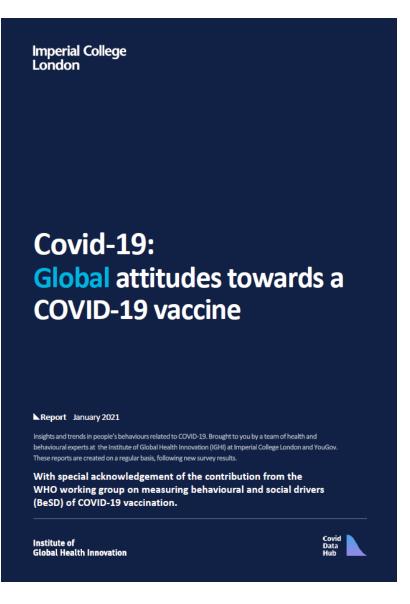
Social processes



Source: The WHO Behavioural and Social Drivers of vaccination expert working group.

Based on: Brewer NT, Chapman GB, Rothman AJ, Leask J, and Kempe A (2017). Increasing vaccination: Putting psychological science into action. *Psychological Science for the Public Interest*. 18(3): 149-207





Practica
issues

% of HCWs who believe that accessing vaccination for themselves is "very" or "moderately" easy (item 4)

- 1. On-site vaccination:
- a. Increasing vaccination access with vaccination offered near hospital/clinic entrances; mandatory masks for the unvaccinated (10).
- b. Increasing vaccine accessibility on work site/high traffic areas (8).
- c. Vaccination at clinics, conferences, and house staff lounges (9).
- d. Increasing vaccination access near hospital/clinic entrances (10).
 - e. Increasing accessibility (e.g. mobile carts, during night and weekend shifts) (1,4).
- f. Longer access to vaccination for HCWs, wider offer of onsite vaccination (5).
- g. Vaccination offered on site/at work (2,14).
- 2. Free/affordable vaccines:
- a. Free vaccines (2,4,14), free vaccination.

Intervention categories, likely impact on vaccine uptake and strength of evidence of available studies

					Strength of	_		
					Broad outco			
	Intervention category	No. of studies	Likely impact		Attitudes and knowledge	Vaccine intent	Vaccine uptake	Strength of evidence (general)
1	Educational campaign ^{1,3-9,11,13,17,22,25-28}	16	•	3		2	3	3
2	On-site vaccination 1,2,4,5,8,10,14,25,29	9	•	3		0	3	3
3	Incentives ^{10,30-32}	6	•	3		2	3	3
4	Free/affordable vaccine	5	•	3		0	3	3
5	Institutional recommendation	6	•	2		0	3	3
6	Provider recommendation	1	•	0		1	1	1
7	Reminder and recall	5	•	2		0	3	3
8	Message framing	4	•	4		3	4	4
9	Vaccine champion	4	0	3		0	3	3

Likely impact O: No impact (summary OR not significant)

: Little impact (summary OR between 1 and 1.25)

: Moderate impact (summary OR between 1.25 and 1.5)

Substantial impact (summary OR > 1.5)

Strength of evidence 0: No

0: No evidence (no studies)

1: Little evidence (no high-quality study [all studies are grade 3])

2: Some evidence (1 to 2 grade 2 studies)

3: Moderate evidence (> 2 grade 2 studies or 1 to 2 grade 1 studies)

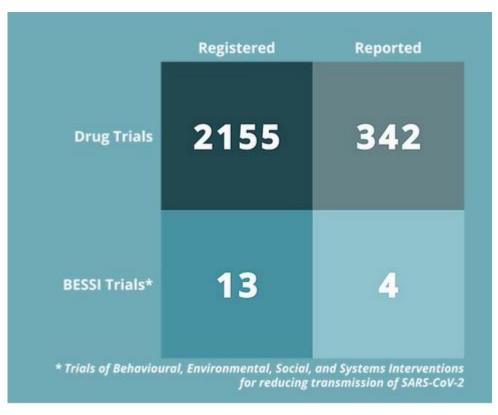
4: Substantial evidence (> 2 grade 1 studies)

Summary

- Uptake is affected by hesitancy and practical issues
- To address the gap, we need good measures
- Comprehensive assessment of barriers will assist
- Data alone is not enough. Need to know how to turn it interventions
- The BeSD guidance will assist countries
- Require further evidence on interventions to increase uptake

The Behavioural Evidence Gap





https://www.bessi-collab.net/

BeSD working group members



Lisa Menning (Secretariat)

Julie Leask (Chair)

Noel Brewer (Deputy chair)

Francine Ganter-Restrepo

Neetu Abad

Cornelia Betsch

Vinod Bura

Gustavo Correa

Ève Dubé

Michelle Dynes

Wenfeng Gong

Monica Jain

Mohamed Jalloh

Saad B. Omer

Deepa Risal Pokharel Nick Sevdalis

Gilla Shapiro

Gillian SteelFisher

Kerrie Wiley

Charles Wiysonge

World Health Organization Headquarters, Switzerland

University of Sydney, Australia

University of North Carolina, US

WHO HQ

Centers for Disease Control and Prevention (CDC), US

University of Erfurt, Germany

World Health Organization, Indonesia

Gavi, the Vaccine Alliance

Laval University, Canada

UNICEF SEARO

Bill and Melinda Gates Foundation

International Initiative for Impact Evaluation (3ie), New Delhi, India

Centers for Disease Control and Prevention (CDC),

Yale University, US

UNICEF NY

Kings College London, UK

University of Toronto, Canada

Harvard University, US

University of Sydney, Australia

South African Medical Research Council, South Africa

