

Behavioural and social drivers (BeSD) of vaccine uptake

Slide pack to support dissemination and use of the tools and guidance

11 July 2022

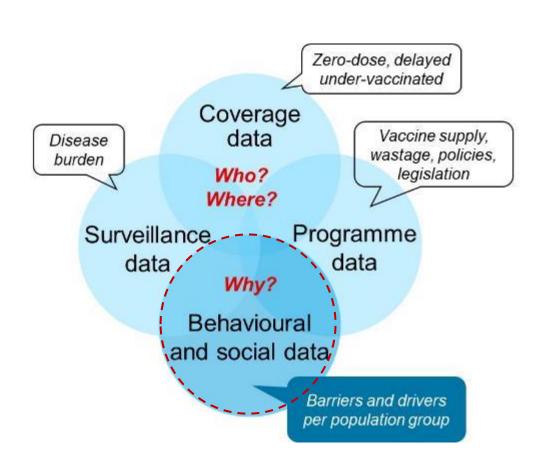
Lisa Menning, menningl@who.int

How to assess and address drivers of uptake?



Our objectives:

- Boost the quality, availability and use of data on behavioural and social drivers (BeSD) with validated, standardized and user-friendly tools
- Integrate tools into existing mechanisms for data collection and use, or as separate
- Monitor and evaluate interventions and track comparable trends at all levels
- Support reporting for IA2030 and Gavi 5.0 global indicators



Summary of the development process (2019-2021)

Testing sites:

Indonesia, Sierra Leone, Guatemala, Australia

Validation sites:

Angola, Ethiopia, DRC, India, Nigeria, Pakistan

Psychometric validation and indicator selection

Working group review and indicator selection

PHASE

Tool

development

Field testing

2

- Finalisation of all tools and guidance
- Tools for childhood vaccination
- Tools for COVID-19 vaccination
- Guidance for data collection and use

Translations and data-gathering

END-USER INPUTS

- Literature review
- Identification of constructs
- Qualitative interview questions

KEY ACTIVITIES

- Survey items and iterative reduction
- Demographic items and survey instructions

- ☑ Key informant interviews
- ✓ IVIR-AC consultations (two)
- Languages and countries selected ☑ Study protocol and scripts
- Translation of all materials (& translator feedback)
- Surveys:
- ☑ Cognitive interviewing
- Analysis spreadsheet: item, results, revisions
- Qualitative tools:

Data analysis

☑ Draft qualitative guides

Validation study protocol

☑ Interviewer debrief form and analysis framework

- Regional and **Country Offices** feedback
- EPI programme and implementer feedback

- Implementing enduser feedback on guidebook
- ☑ Continue to gather end-user feedback

Tools and guidance on BeSD



Childhood vaccination tools

- **Survey:** for parents of children under 5 years
- **Qualitative tools:** 1) parents, 2) health workers, 3) community stakeholders, and 4) authorities

COVID-19 vaccination tools

- **Surveys:** for 1) adults, 2) health workers
- **Qualitative tools**

Practical implementation guidance



Set a specific goal such as "understanding the changeable drivers and barriers to vaccination in [country] to improve uptake". Establish a team that includes to recruit participants, funding, timelines and ethics approvals. Develop a plan,



Decide on the tools to match your goal. The BeSD surveys and interview guides can be found here. Translate or adapt them as needed. Guidance for adaptation is available here. Identify a sample, a data collection protocol, and obtain any necessary approvals



3. COLLECT AND ANALYSE DATA

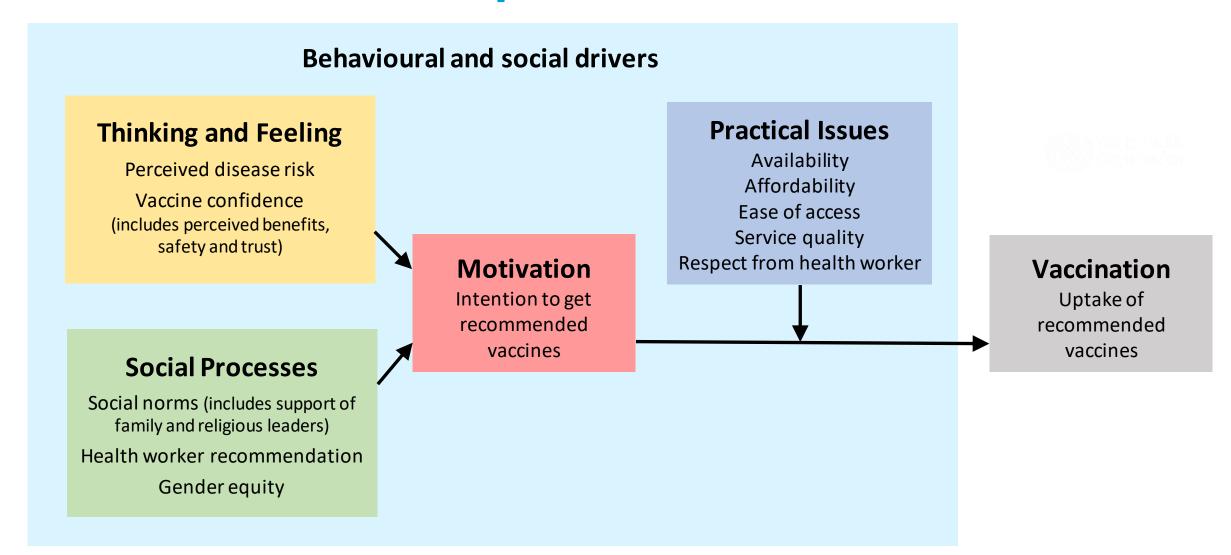
Collect, clean and analyse data. Summarise and report findings. Tools and guidance for analysing and presenting quantitative and qualitative BeSD data





What drives vaccine uptake?



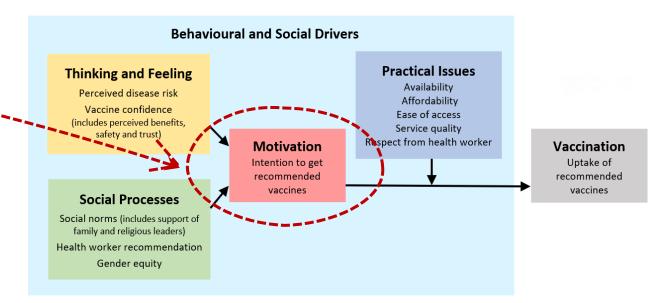


What about hesitancy?



"Vaccine hesitancy" is part of the *Motivation* domain.

Hesitancy is a motivational state of being conflicted about, or opposed to, getting vaccinated; includes intentions and willingness.



Summary of all topics measured: Childhood vaccination survey

Thinking and feeling	Motivation	Social processes	Practical issues
Confidence in vaccine benefits	◆ Intention to get child vaccinated	◆ Family norms	❖ Know where to get vaccination
• Confidence in vaccine safety		Health worker recommendation	♦ Affordability
O Confidence in health workers		Peer norms	Took child for vaccination
		Community leader norms	Received recall
		O Religious leader norms	Ease of access
		O Mother's travel autonomy	Reasons for low ease of access
• Main survey question			Vaccine availability

Main	survev	question.
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Priority question in main survey.

O Optional question.

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Service satisfaction

Service quality

Demographics
Age
Gender
Parent/caregiver
Number of children
under 5
Relationship to
child
Age of child
Gender of child
Vaccination status

Priority indicators for monitoring: childhood vaccination

DOMAIN/	<u>Childhood</u> vaccination survey		
construct	Priority question	Indicator	
THINKING AND FEELING Confidence in vaccine benefits	How important do you think vaccines are for your child's health? Would you say Not at all important A little important Moderately important, or Very important?	% of parents/caregivers who say that vaccines are "moderately" or "very" important for their child's health	
SOCIAL PROCESSES Family norms	Do you think most of your close family and friends want you to get your child vaccinated? NO YES	% of parents/caregivers who say most of their close family and friends want their child to be vaccinated	
MOTIVATION Intention to get vaccine	[COUNTRY NAME] has a schedule of recommended vaccines for children. Do you want your child to get none of these vaccines, some of these vaccines or all of these vaccines? □ NONE □ SOME □ ALL	% of parents/caregivers who want their child to get "all" of the recommended vaccines	
PRACTICAL ISSUES Know where to get vaccination	Do you know where to go to get your child vaccinated? □ NO □ YES	% of parents/caregivers who know where to get their child vaccinated	
PRACTICAL ISSUES Affordability	How easy is it to pay for vaccination? When you think about the cost, please consider any payments to the clinic, the cost of getting there, plus the cost of taking time away from work. Would you say Not at all easy A little easy Moderately easy, or Very easy?		

Summary of all topics measured: COVID-19 vaccination survey

Thinking and feeling	Motivation	Social processes	Practical issues
Confidence in COVID- 19 vaccine benefits	◆ Intention to get vaccinated	◆ Family norms	♣ Know where to get vaccination
Confidence in COVID- 19 vaccine safety	● Vaccine confidence – brand	• Peer norms	♦ Affordability
● COVID-19 vaccine –see friends and family	 Willingness to recommend vaccine to others 	Religious leader norms	Received recall
O Perceived risk – self		Community leader norms	Ease of access
O Confidence in health workers		Health worker recommendation	Reasons for low ease of access
		O Workplace norms	Service satisfaction
Main survey question.Priority question in main survey.		O Gender equity – travel autonomy	Service quality
O Optional question.			O On-site vaccination

Demographics	
Age	
Gender	
Occupation	
*Health worker role	
COVID-19 risk	
COVID-19 diagnosis	

Priority indicators for monitoring: COVID-19 vaccination

DOMAIN/	COVID-19 vaccination survey	
construct	Priority question	Indicator
THINKING AND FEELING Confidence in vaccine benefits	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, or Very important? Do you think most of your close family and friends want you to get a COVID-	% of adults/health workers who think a COVID-19 vaccine is "moderately" or "very" important for their health % of adults/health workers who think
Family norms	19 vaccine? □ NO □ YES	most of their close family and friends want them to get a COVID-19 vaccine
MOTIVATION Intention to get vaccine	Do you want to get a COVID-19 vaccine? Would you say ☐ You do not want to, ☐ You are not sure, ☐ You want to, or ☐ You are already vaccinated?	% of adults/health workers who want to get a COVID-19 vaccine
PRACTICAL ISSUES Know where to get vaccination	Do you know where to go to get a COVID-19 vaccine for yourself? □ NO □ YES	% of adults/health workers who know where to get a COVID-19 vaccine for themselves
PRACTICAL ISSUES Affordability	How easy is it to pay for vaccination? When you think about the cost, please consider any payments to the clinic, the cost of getting there, plus the cost of taking time away from work. Would you say Not at all easy A little easy Moderately easy, or Very easy?	% of adults/health workers who say vaccination is "moderately" or "very" easy to pay

Examples of qualitative questions



Survey item Parent

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

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

Programme Manager

What makes the provision of childhood immunization a success in your area?

Probe: Are there specific examples you can describe?

Health Worker

I'd like to understand the process you follow to immunize a child, starting from the very beginning.

Probe: Can you summarize the procedure of immunization in around 5 steps starting once a family arrives at the center for vaccination?

Parent

Thinking about vaccination day for your child, tell me about what happens before you arrive at the place where your child gets their vaccine. Start with before you leave home.

Probe: What do you need to do to prepare before you leave home?

Moving from data to action:



Promising interventions by BeSD domain to guide planning

Domain where problem is identified	Interventions shown to increase vaccination
Thoughts and feelings and Motivation	Campaigns to inform or educate the public about vaccination Dialogue-based interventions, including one-to-one counseling to encourage vaccination
Social processes	Community engagement Positive social norm messages Vaccine champions and advocates Recommendations to vaccine from health workers
Practical issues	Reduced out-of-pocket costs Service quality improvements Reminder for next dose /recall for missed dose Onsite vaccination at home, work and school Default appointments Incentives School and work requirements (mandates)

Steps to use BeSD for local data?



- 1. **ENGAGE:** Establish a core group with key stakeholders
- 2. PARTNER: Identify implementing partner to assist with methods, data collection and analysis
- 3. PRIORITIZE: Review existing data and challenges, identify prioritized population, formulate research question
- 4. **TOOLS:** Decide what BeSD tools to use: survey (with priority indicators), or interview guides. Test and adapt tools to match local needs and context.
- 5. **PLAN:** Develop project plan including timelines, budget, process for data collection and analysis
- 6. ACT: Consider how findings may be used to guide planning and implementation
- 7. **MONITOR:** Continue M&E to guide iterative improvements

Why measure BeSD?



- Understand main reasons for low uptake and related trends
- Guide policy-making, planning and evaluation
- Tailor and evaluate specific interventions
- Better allocate resources
- Enhance transparency and ownership
- Support training programmes
- Strengthen stakeholder engagement
- Inform advocacy efforts at all levels

IA2030 Global Indicators for Strategic Priority 2

SP2: Commitment and demand

- **2.1** Proportion of countries with legislation in place that is supportive of immunization as a public good
- **2.2** Proportion of countries that have implemented behavioural or social strategies (or demand generation strategies) to address under-vaccination

SAGE conclusions and recommendations:



Behavioural and social drivers (BeSD) of uptake

"SAGE recommended the systematic gathering and use of data on behavioural and social drivers to assess the reasons for low uptake, for routine tracking of trends, and monitoring and evaluation of interventions."

SAGE, October 2021

MORE INFORMATION:

SAGE October 2021 meeting conclusions and recommendations (WER, 17 Dec 2021): https://apps.who.int/iris/handle/10665/350649

SAGE October 2021 meeting agenda, background documents, presentations and highlights: https://www.who.int/news-room/events/detail/2021/10/04/default-calendar/sage meeting october 2021

Final tools and guidance:

https://www.who.int/teams/immunization-vaccines-and-biologicals/essential-programme-on-immunization/demand

WHO Position Paper on BeSD, May 2022:

https://apps.who.int/iris/bitstream/handle/10665/354458/WER9720-eng-fre.pdf



Weekly epidemiological record Relevé épidémiologique hebdomadaire

No 20, 2022, 97, 209-236

behavioural and social drives

behavioural and social drivers of vaccine uptake WHO position paper - May

Understanding the

In accordance with the WHO's mandate to provide guidance to Member States on

health policy matters, the organization regularly issues position papers on vaccination, particularly when they relate to aree-acale immunization programmes. these position papers summarize essential Position papers are designed to be used

minly by national public health officials count to international funding assencies. vaccine advisory erours, vaccine manu-

published by WHO on the behavioural and ocial drivers (BeSD) of vaccine uptake. It summarizes the development of new tools and indicators to assess the BeSD of vaccine uptake for childhood and COVID-19 vaccination, enabling decision-makers on mmunication policy, programme managers, and partners to address under-vaccination through an enhanced understanding of the underlying causes. This paper also

Comprendre les facteurs comportementaux et sociaux de l'adoption des vaccins Note de synthèse de l'OMS

WHO Position Paper – May 2022:



Understanding the behavioural and social drivers of vaccine uptake

Outline of contents:

- Summary of the development and validation of BeSD tools, indicators, and guidance
- Findings of a scoping review: interventions to increase vaccine uptake
- Recommendations on use of BeSD tools and resulting data to prioritize local interventions
- Future research directions

Access the Position Paper here:

https://apps.who.int/iris/bitstream/handle/10665/354458/WER9720-eng-fre.pdf



the preparation and endorsement of vaccine position papers is available at:

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social drivers (BeSD) of vaccine uptake. It summarizes the development of new tools and indicators to assess the BeSD of vaccine uptake for childhood and COVID-19

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Understanding the behavioural and social drivers of vaccine uptake

RECOMMENDATIONS (1):

Countries are recommended to...

- i. **Regularly collect quality, standardized <u>quantitative data using BeSD validated surveys and priority indicators</u>, focusing on districts and subgroups with vaccination coverage gaps and inequities:**
 - All countries: Integrate the five BeSD questions linked to the priority indicators (in Table 2) into routine data-collection processes and assessments
 - Countries with overall low coverage (of childhood vaccination or COVID-19 vaccination): Implement the full BeSD survey nationally every 2–3 years, or annually if triggered by an event
 - **Countries with inequities in vaccine uptake** (e.g. disparities across the population): Implement the full BeSD survey and in-depth interview guides in prioritized subnational settings at least every 2–3 years.
- ii. **Implement the <u>in-depth interviews using BeSD guides</u>** in prioritized subnational settings, adapting for population and purpose. Frequency may be determined by coverage gaps and need for monitoring to guide continuous improvement of interventions.
- iii. Analyse, disaggregate, and use behavioural and social data in conjunction with other vaccination programme data, to improve programme implementation and address the reasons for low uptake
- iv. Conduct ongoing monitoring and evaluation to track and assess trends and patterns on BeSD priority indicators, and enhance interventions
- v. Establish or strengthen partner coordination mechanisms for routine data collection and use of data





Understanding the behavioural and social drivers of vaccine uptake

RECOMMENDATIONS (2):

National and Regional Immunization Technical Advisory Groups are recommended to:

- i) analyse and use data from BeSD surveys and in-depth interview guides (in conjunction with other programme data, including digital listening insights) to guide planning and prioritization; and,
- ii) include individuals with social sciences expertise and representatives from civil society to their membership to strengthen work on vaccination.

To contribute to the above recommendations, **global and regional organizations, implementing partners, donors, and other stakeholders** may offer support in a range of areas including technical assistance; capacity building; documenting effective interventions and related lessons; and promoting the use of validated BeSD tools to enable standardization and improved future comparability of data

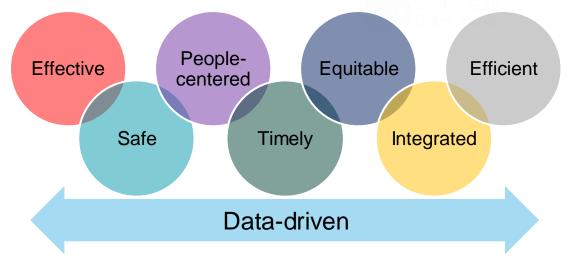
Quality Immunization Services Planning Guide



An evidence informed guide for policy makers, programme managers, stakeholders and providers of care including sub-national teams to:

- Reinforce the importance of quality services for sustainably increasing vaccination uptake
- Direct action towards data-driven strategies
- Highlight <u>practical</u> steps for the delivery of quality vaccination services across levels of the system
- >> Enhance trust in health workforce and vaccination
- >> Strengthen community engagement in planning

Guiding principles of quality



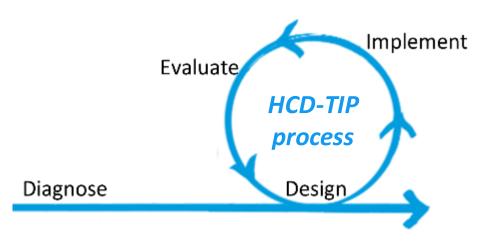
CLOSING GAPS:

Human Centred Design for Tailoring Immunization Programmes (HCD-TIP)



<u>For engaging with prioritized communities</u> to understand reasons for low uptake and to co-design services and interventions to meet local needs.

- Puts communities at the centre
- Partnership-driven and inclusive
- Data-driven and iterative problem-solving process
- Adaptable and user-friendly for use at sub-national level
- Applicable across the life course, for hesitant groups, zero dose settings, new vaccines and in outbreaks
- Integrates with other key tools, e.g., the Behavioural and Social Drivers (BeSD) of vaccination tools



Access the guide here: https://apps.who.int/iris/handle/10665/354457



Gathering BeSD data...

Where to start for programmes?

- 1. Integrate *priority indicators* into routine data collection mechanisms
- Consider national planning processes:
 - Include activities in annual plan, e.g., national BeSD survey in 2023.
 - Bring to the agenda of the NITAG to integrate BeSD in reviews
 - Include in any national cross-partner planning meetings
- 3. Include in Gavi *funding* request, e.g., Full Portfolio Planning
- 4. Seek added technical assistance and capacity building support
- 5. Identify potential local *partners* for specific research support, e.g., academics

How will use of the tools be supported?



Building on existing platforms and activities...

- Collaboration
 with
 partners,
 NITAGs,
 CSOs,
 experts,
 researchers
- Promote awareness of tools and guidance
- Technical assistance for gathering and using data, including digital tools, trainings, report templates, community of practice
- Support to integrate tools and indicators into existing surveys, reports and processes
- Facilitate use of data and learning at all levels, e.g. via rapid report development, and dissemination and planning workshops
- Track and evaluate impact via feedback loops and documentation

More information?

Visit our web page:

https://www.who.int/teams/immunization -vaccines-and-biologicals/essentialprogramme-on-immunization/demand





Health Topics v

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The Essential Programme on Immunization aims to strengthen vaccine programmes, supply, and delivery, and ensure universal access to all relevant vaccines for all populations across the life course.

About 3

Increasing vaccination demand and uptake

Essential Programme on Immunization

Increasing and maintaining vaccination uptake is vital for vaccines to achieve their success. Addressing low vaccination requires an adequate understanding of the determinants of the problem, tailored evidence-based strategies to Improve uptake, and monitoring and evaluation to determine the impact and sustainability of the interventions.

1. Understanding the drivers of immunization uptake

A range of factors influence whether a person is vaccinated or not. The framework of behavioural and social drivers (BeSD) of vaccine uptake (see below chart) illustrates states the four domains that can be measured to understand reasons for under-vaccination. The BeSD framework includes influences that are measurable, potentially changeable, and specific to vaccination.

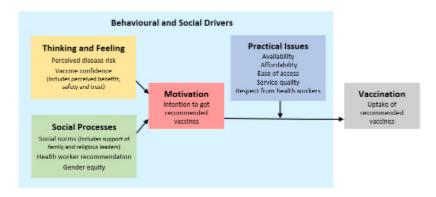
To support the systematic assessment of these drivers of vaccination, WHO established the Measuring Behavioural and Social Drivers of Vaccination global working group in October 2018, in collaboration with core partners, to oversee development of field-tested and validated tools and guidance.

BeSD tools include surveys and in-depth interview guides for both childhood and COVID-19 vaccinations, and guidance is available to support the gathering and use of data. Countries are recommended to systematically collect and analyse data on behavioural and social drivers of vaccine uptake. These data may be routinely used to guide programme planning, implementation and evaluation.

Behavioural and social drivers of vaccine uptake: tools and practical guidance

Understanding the behavioural and social drivers of vaccine uptake. WHO position paper - May 2022

The WHO behavioural and social drivers of vaccination framework



Source: The BeSD working group. Based on Brewer et al. Psychol Sci Public Interest. (2017).

2. Engage with communities

Because the drivers of uptake are contextual, assessing and addressing low uptake requires engaging with communities to generate insights on their needs and perspectives, and to guide the development of better quality vaccination services, systems, policies, and other programme strategies.