GENDER AND VACCINATION

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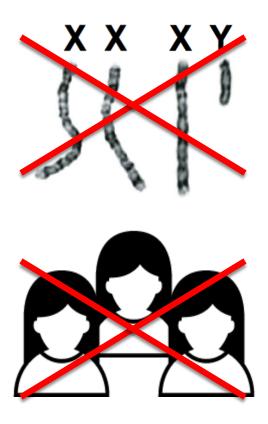


Agenda

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Gender Primer

Gender is....



"Gender is used to describe those characteristics of women and men which are socially constructed. Gender roles are learned through socialisation and are changeable rather than fixed."

- GAVI Alliance Gender Policy

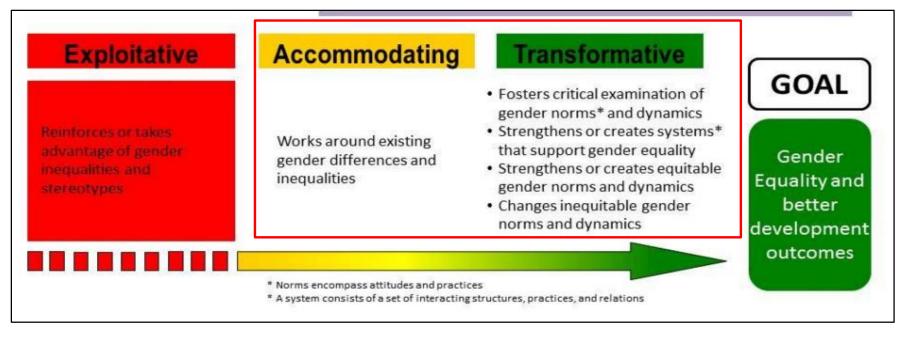
Gender Primer

Integrating a "Gender Lens" for development programs

- □ "Do No Harm"
- Accommodating & Transformative

Project-specific Lenses

- Aggregate vs. subnational
- Sex of child vs. gender issues among caretakers



IGWG Gender Integration Continuum





Executive summary

Situation & objective

- Attention on gender justice and equity is increasing across the work of the Gates foundation, and the Vaccine Delivery (VxDel) team seeks to understand opportunities for their work on immunization to contribute
- Objective: Conduct a literature review on the relationship between gender equity and immunization in order to identify hypotheses for further exploration

Key insights

- Immunization coverage is impacted by unequal power dynamics at all levels of the social ecological model
- Programs targeting and accommodating women alone put responsibility for immunizations on women without giving them power engaging men may expand responsibility to both parents and the broader community
- Health systems policies and procedures to address gender inequity could play a role in promoting more gender equitable norms
- Vaccination programs empowering young women and young mothers may have more significant benefits to vaccination outcomes than programs targeting the general population

Gaps and next steps

- Gaps in evidence are primarily related to:
 - Subnational data collection and evaluation
 - Quantitative data on gender related health system interventions that impact vaccination
- □ Potential next steps include:
 - Explore specific hypotheses in depth
 - Evaluating potential for cross-cutting collaboration across The Foundation



Literature review progress

Inclusion

- Justice and equality with vaccination
- Gender terms with vaccination terms or broader health system implication
- Population: children and LMICs
- Addresses systemic and sociological issues

BMGF Resources: GEWE Strategy, RI Amphitheater, IVAC Summary, HPV Lessons Learned

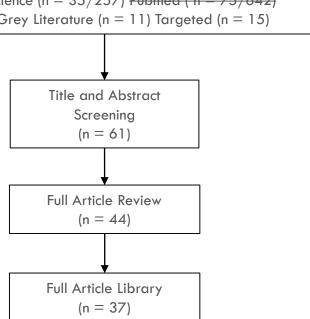
Electronic Database Search

(n = unique articles after removing duplicates)

Web of Science (n = 35/257) Pubmed (n = 75/642) Google: Grey Literature (n = 11) Targeted (n = 15)

Exclusion

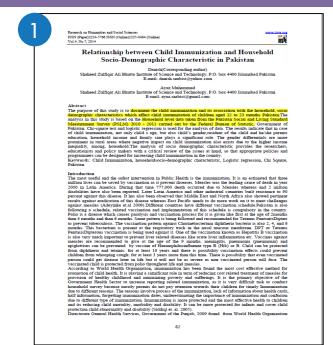
- Non-vaccination/non health systems
- Non-maternal adult vaccination
- Non-LMICs
- Vaccine efficacy studies analyzing sex differences
- Irrelevant conditions/topics (i.e. diabetes)
- Scientific/clinical-focus



Gender terms		
gender	identity	
sex	sexism	
Interpersonal relations		
Vaccination terms		
vaccin*	vaccines	
coverage	immun*/immunis*	
delivery		
Justice and equality terms		
inequality	socioeconomic	
inequity	bias	



Overview of targeted search results



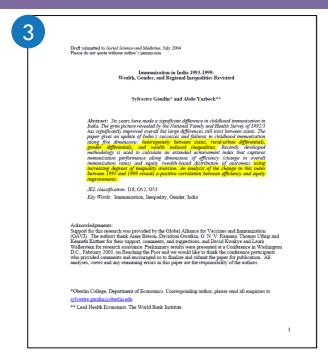
Research Articles

- Uses DHS, national, and districtlevel data for evaluation
- Draws gendered insights on vaccination rates
- Targeted at a country/region



Systematic Reviews

- Literature reviews examining vaccination drivers
- Evaluate gender influences on vaccination rates and child health/nutrition

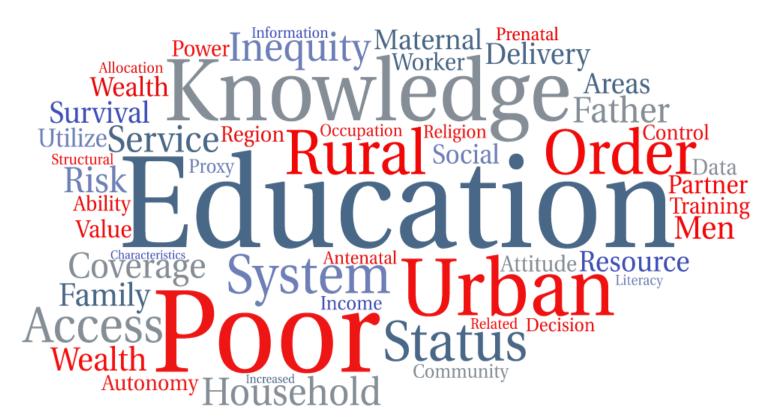


Grey Literature

- PhD candidates evaluating data for dissertation
- Systematic review to evaluate landscape and inform thinking

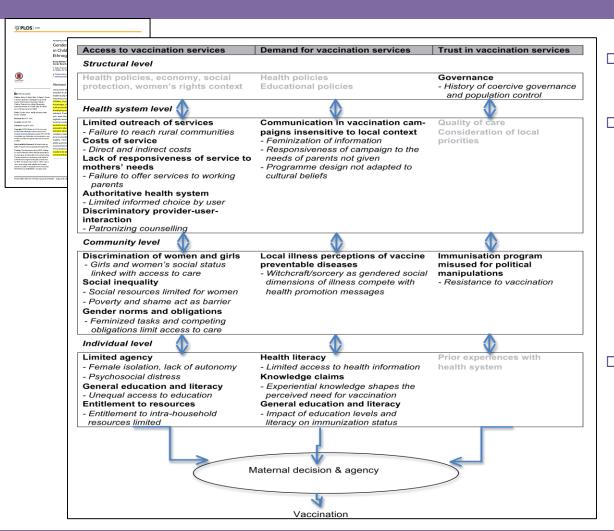


Thematic findings from the literature



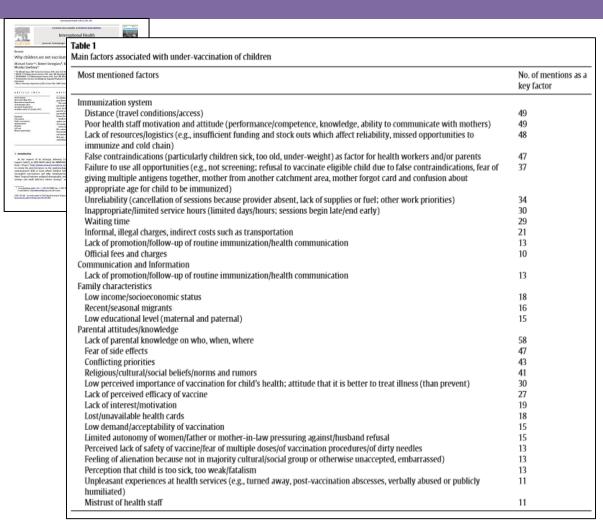
- Rural vs. urban
- Autonomy/power
- □ Prenatal/antenatal care
- Training (of health workers)
- □ Men/fathers
- Structural challenges
- □ Occupation/religion
- Birth order

Literature highlight: Systematic Review by Merten, et al. (2015)



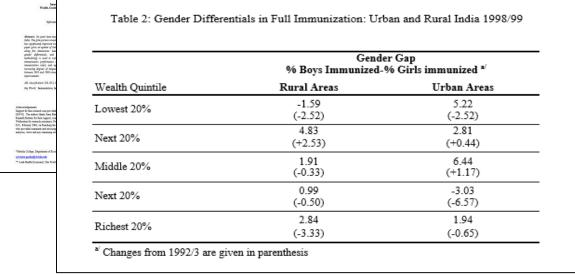
- Review of qualitative research to evaluate reasons that routine vaccination programs do not reach children in LMICs
- Findings:
 - Low social status of women manifests at every level as a barrier to accessing vaccinations
 - Access to education, income, and autonomous decisionmaking
 - Time and financial resource allocation
 - Blame and shame for child illness increased access problems and motivation
- Conclusions:
 - Increasing availability and knowledge is not enough, must include mitigation measures to enable access to vaccinations
 - Gender inequality needs to be addressed at the structural, community, and household levels

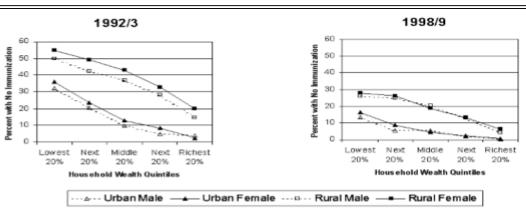
Literature highlight: Systematic Review by Favin et al. (2012)



- IMMUNIZATION basics collaboration with WHO
 - 126 grey literature documents
 - Evaluated reasons why eligible children had incomplete or no vaccinations
- Sex differences are not widespread
 - India and South Asia girls sometimes not vaccinated or vaccinated later
 - Gender issues are widespread, but not a major predictor factor in under-vaccination
- Gender issues
 - Husbands prohibit wives from visiting clinics
 - Women are not comfortable themselves being attended by unknown men at clinics
 - Husband refusal when child previously had side effects

Literature highlight: DHS analysis in India Gaudin & Yazbeck (2004)





- Examined health statistics between 1992/93 and 1999 to evaluate progress and identify trends
- Improvements to rates of "total system failure" but challenges remain in full immunization
 - Wealth inequality was greater in rural areas
 - Greater gender discrimination in lower income groups
 - Problems in discrimination are likely at the household level where boys are favored when return visits are required
- There was significant variance between states in performance over time

Literature highlight: Engaging Men and Boys for RMNCH (2013)



- "Men as *clients*, men as *partners*, men as *agents* of change"
- Engaging men in dialogue around vaccination with the goal of making them advocates for vaccination could improve vaccination rates and address systemic issues of gender equity and responsibility for child health
 - Base study (Varkey, 2004) showed increased communication on the topic but not differences in already high vaccination rates between the two groups
 - Husbands rarely brought in their infants and children for vaccination by themselves. There was no statistic difference on this fact.

Methodology

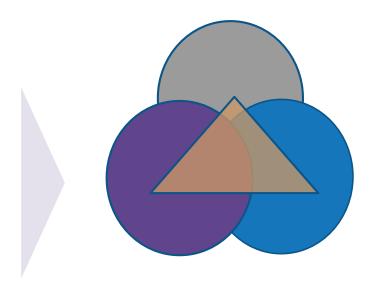
Structural/systemic

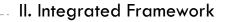
Health system

Community

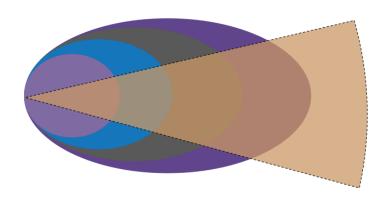
Individual

- I. Nested Framework
- Comprehensive
- Integrated
- Broad





- Actionable
- Health systems-specific
- Targeted

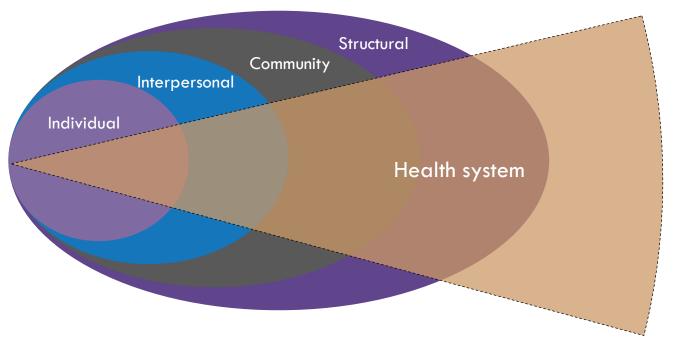


- III. Social-Ecological Framework
- Nested
- Actionable
- Targeted



Framework

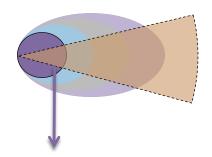
Social-Ecological Model Doveland from themes and framework



- Developed from themes and frameworks emerging from literature
- Supports comprehensiveness and facilitates a breadth of future work
- □ Enables a "nested" analysis of themes that are actionable within VxDel
- ☐ Emphasis on the intersection of health systems within the model



Hypotheses: Individual

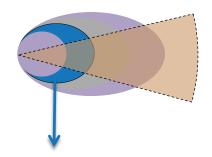


Intersections of varying levels and dimensions of inequity/deprivation with gender make health services less accessible and create disparities in vaccination outcomes.

Demographic segments of the population of women and girls, such as those in lower wealth quintiles or specific religions, are more at risk for both low vaccination and health care utilization rates depending on the region in which they reside.

Additional support and encouragement to very young mothers and older mothers (e.g. below 20 years and above 30 years) and families with large numbers of children could increase vaccination knowledge and outcomes.

Hypotheses: Interpersonal

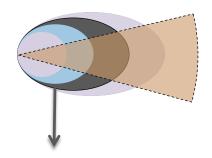


In communities where there is a larger degree of inequality in households in decision-making and resource allocation, educating men about the importance of family health care enhances communication between partners and can promote health of pregnant mothers and child vaccination outcomes.

Men can provide an accommodating environment for women and children to receive services, for example, in areas where women's movement is restricted.

Gender of health workers can be a valuable driver for health-seeking behaviors and child health.

Hypotheses: Community



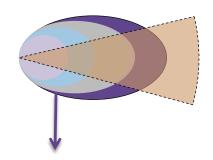
Campaigns that dispel concerns around safety and efficacy of specific vaccinations and that engage men can impact child health and vaccination outcomes.

Community norms on gender roles in a family's health can have an impact on health knowledge and vaccination coverage.

Relationship-building between people and community health workers can lead to increased agency among women and improved vaccination outcomes.

H2

Hypotheses: Structural



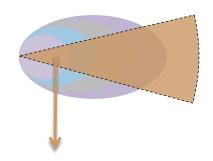
Where women are primarily responsible for child well being and vaccine delivery relies on the health system, barriers to healthcare access associated with compounding factors of restrictive gender norms and low socioeconomic status must be addressed in order to increase coverage.

Access to media can enable increased immunization knowledge, attitudes and practices among parents.

Addressing structural drivers (e.g. transportation, finance, education, employment/livelihoods, legal norms, GBV*) for gender inequity may improve vaccination outcomes.

H2

Hypotheses: Health system



- Training and workshops on communication, gender sensitization, and sexual harassment for all health care system workers (including providers, staff, administrators, and leadership) could improve vaccination outcomes and quality of care.
 - Policies that promote gender equity in health system hiring, promotion, and organizational leadership could indirectly have a positive impact on immunization service delivery.
 - Expansion of human resources in primary health care centers and through [female] health extension workers will result in greater immunization coverage with female caretakers and could result in greater immunization coverage for male caretakers.

Opportunities for collaboration

- Family planning
 - Birth order
 - Behavior change
- □ EDD vaccine efficacy
 - Breastfeeding and health care
- Financial services for the poor
 - Mobile technology and media
- Integrated delivery
 - Primary care



DISCUSSION





Appendix





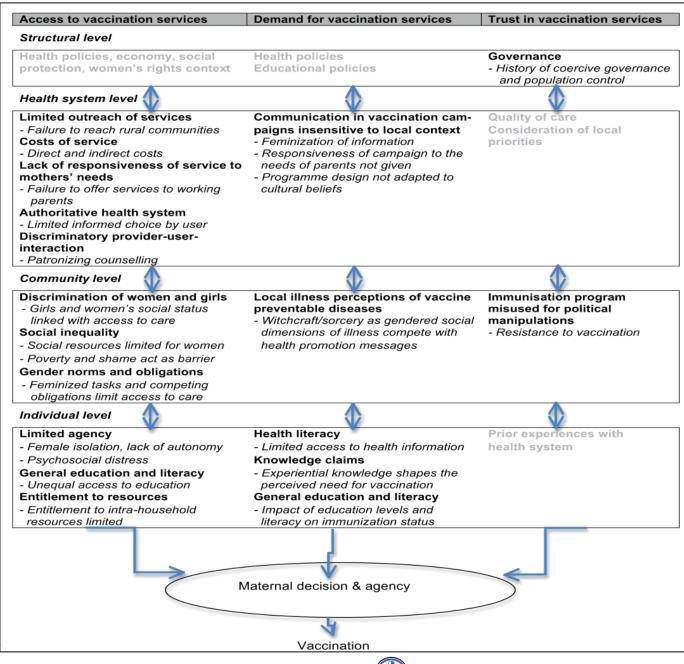


Table: Systematic Review by Merten, et al. (2015)



International (Action 19) Total Action 1992 Tested to the control of the contro

Table 1 Main factors associated with under-vaccination of children Most mentioned factors No. of mentions as a key factor Immunization system Distance (travel conditions/access) 49 Poor health staff motivation and attitude (performance/competence, knowledge, ability to communicate with mothers) 49 Lack of resources/logistics (e.g., insufficient funding and stock outs which affect reliability, missed opportunities to 48 immunize and cold chain) False contraindications (particularly children sick, too old, under-weight) as factor for health workers and/or parents 47 Failure to use all opportunities (e.g., not screening; refusal to vaccinate eligible child due to false contraindications, fear of 37 giving multiple antigens together, mother from another catchment area, mother forgot card and confusion about appropriate age for child to be immunized) Unreliability (cancellation of sessions because provider absent, lack of supplies or fuel; other work priorities) 34 Inappropriate/limited service hours (limited days/hours; sessions begin late/end early) 30 29 Waiting time Informal, illegal charges, indirect costs such as transportation 21 Lack of promotion/follow-up of routine immunization/health communication 13 Official fees and charges Communication and Information Lack of promotion/follow-up of routine immunization/health communication 13 Family characteristics Low income/socioeconomic status 18 Recent/seasonal migrants 16 Low educational level (maternal and paternal) 15 Parental attitudes/knowledge Lack of parental knowledge on who, when, where Fear of side effects Conflicting priorities Religious/cultural/social beliefs/norms and rumors Low perceived importance of vaccination for child's health; attitude that it is better to treat illness (than prevent) 27 Lack of perceived efficacy of vaccine Lack of interest/motivation Lost/unavailable health cards Low demand/acceptability of vaccination Limited autonomy of women/father or mother-in-law pressuring against/husband refusal Perceived lack of safety of vaccine/fear of multiple doses/of vaccination procedures/of dirty needles Feeling of alienation because not in majority cultural/social group or otherwise unaccepted, embarrassed) Perception that child is too sick, too weak/fatalism 13 Unpleasant experiences at health services (e.g., turned away, post-vaccination abscesses, verbally abused or publicly 11 humiliated) 11 Mistrust of health staff

Table: Systematic Review by Favin et al. (2012)



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Immunication in India 1993-1999: Wealth, Gender, and Regional Inequalities Revisite

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Table 2: Gender Differentials in Full Immunization: Urban and Rural India 1998/99

	Gender Gap % Boys Immunized-% Girls immunized ^{a/}	
Wealth Quintile	Rural Areas	Urban Areas
Lowest 20%	-1.59 (-2.52)	5.22 (-2.52)
Next 20%	4.83 (+2.53)	2.81 (+0.44)
Middle 20%	1.91 (-0.33)	6.44 (+1.17)
Next 20%	0.99 (-0.50)	-3.03 (-6.57)
Richest 20%	2.84 (-3.33)	1.94 (-0.65)

a Changes from 1992/3 are given in parenthesis

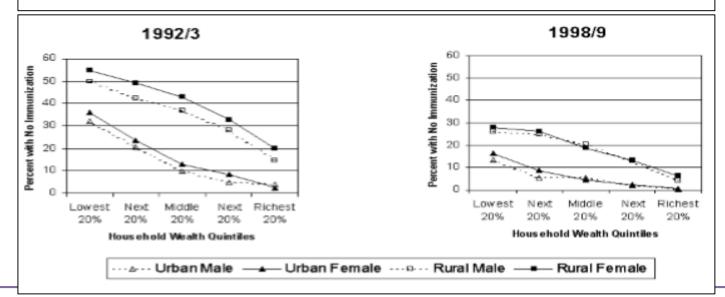


Table: DHS analysis in India Gaudin & Yazbeck (2004)