

Achieving polio eradication: a review of health communication evidence and lessons learned in India and Pakistan

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Abstract Since 1988, the world has come very close to eradicating polio through the Global Polio Eradication Initiative, in which communication interventions have played a consistently central role. Mass media and information dissemination approaches used in immunization efforts worldwide have contributed to this success. However, reaching the hardest-to-reach, the poorest, the most marginalized and those without access to health services has been challenging. In the last push to eradicate polio, Polio Eradication Initiative communication strategies have become increasingly research-driven and innovative, particularly through the introduction of sustained interpersonal communication and social mobilization approaches to reach unreached populations.

This review examines polio communication efforts in India and Pakistan between the years 2000 and 2007. It shows how epidemiological, social and behavioural data guide communication strategies that have contributed to increased levels of polio immunity, particularly among underserved and hard-to-reach populations. It illustrates how evidence-based and planned communication strategies – such as sustained media campaigns, intensive community and social mobilization, interpersonal communication and political and national advocacy combined – have contributed to reducing polio incidence in these countries. Findings show that communication strategies have contributed on several levels by: mobilizing social networks and leaders; creating political will; increasing knowledge; ensuring individual and community-level demand; overcoming gender barriers and resistance to vaccination; and reaching out to the poorest and marginalized populations. The review concludes with observations about the added value of communication strategies in polio eradication efforts and implications for global and local public health communication interventions.

Une traduction en français de ce résumé figure à la fin de l'article. Al final del artículo se facilita una traducción al español. الترجمة العربية لهذه الخلاصة في نهاية النص الكامل لهذه المقالة.

Introduction

Since 1988 the world has come very close to eradicating polio through the Global Polio Eradication Initiative,¹ a programme in which communication interventions have played a consistently central role. This large public health initiative is organized by WHO, Rotary International, the US Centers for Disease Control and Prevention (CDC) and the United Nations Children's Fund (UNICEF). Other leading partners include the United States Agency for International Development (USAID), the Bill & Melinda Gates Foundation, governments of polio-affected countries, donor agencies, non-governmental and private sector organizations. Primarily through mass vaccination campaigns, the Initiative cut the number of polio cases from about 350 000 in 1988 to 1643 by January 2009.^{1,2} Mass media and information dissemination approaches used in immunization efforts worldwide have contributed to this success. However, polio is still endemic in Afghanistan, India, Nigeria and Pakistan.³ Reaching the hardest-to-reach, the poorest and most marginalized, and those without access to health services remains a critical challenge in all four countries that have pushed eradication efforts to explore increasingly research-driven and innovative communication strategies.

We examine polio communication efforts in India and Pakistan between 2000 and 2007 and show how epidemiological, social and behavioural data guided communication strategies that have contributed to increased levels of polio immunity, particularly among underserved and hard-to-reach populations. As efforts to eradicate polio in these two countries continue, the period covered in this paper saw the emergence of innovative use of epidemiological data and application of multiple known and new communication interventions. We focus on India and Pakistan because: (i) they have faced challenges in reaching often disparate hard-to-reach populations that have required more sophisticated, data-driven and targeted communication approaches; and (ii) communication approaches have been evaluated against surveillance and campaign data, and reviewed periodically by independent bodies including the Technical Advisory Group, the India Expert Advisory Group and technical communication review groups. Monitoring and evaluation of activities implemented in India and Pakistan have been expanded since 2004.

Polio communication reviews at international, national and sub-national levels have supported improvements in the collection, analysis and use of data, contributed to a consensus building process about communication interventions and

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inclusion of communication expertise in some of the polio technical advisory groups. These reviews provide useful spaces to step back periodically to review the communication programmes and develop recommendations to further strengthen polio communication work. We illustrate how evidence-based and planned communication strategies such as intensive interpersonal communication and social mobilization, media campaigns, and political and national advocacy combined have contributed to reducing polio incidences in these countries. We conclude with observations about the value that these strategies bring to addressing the challenges faced in the final phases of polio eradication and its implications for public health communication. We define public health communication as the strategic design, application and evaluation of communication interventions (i.e. social mobilization, interpersonal communication, mass or local media and advocacy) to achieve public health objectives.^{4–6} Social mobilization is defined as “a broad-scale movement to engage people’s participation in achieving a specific development goal through self-reliant efforts”,⁷ which often demands the participation of different social actors including community organizations, national, local and state governments, professional organizations and media.^{8,9}

Method

We conducted a review of primary and secondary data sources that include research, evaluation and technical reports, as well as policy, theme and working papers that document communication efforts for polio eradication in India and Pakistan. We examined data from randomized before and after reports of national and regional surveys, exit interviews at vaccination booths and other research and reviews commissioned by the Technical Advisory Group and India Expert Advisory Group. Other sources of information analysed include country data presented at Technical Advisory Group and India Expert Advisory Group meetings, polio communication reviews and other independent/academic research. Some of these reports were peer-reviewed while others were not. However, all of them provided additional context about polio communication in both

countries. We also examined reports on polio eradication efforts in other countries that are available on databases such as Medline. We support our findings through references of selected quantitative and qualitative data from studies conducted throughout the years covered in this review.

Challenges

Despite the monumental challenge of coordinating logistics, health workers and volunteers at fixed site polio booths and during house-to-house visits, India has made tremendous progress towards reducing the polio disease burden since 1995. By 2005, India was immunizing 170 million children with oral polio-myelitis vaccine (OPV) during National Immunization Days at least twice a year and approximately 100 million children multiple times a year during Sub-National Immunization Days.¹⁰ The number of children in polio endemic areas that received at least two doses of OPV increased steadily from 85% in 1995–1996 to 96% in 2000–2001.¹¹ Pakistan’s Polio Eradication Initiative started in 1994 with implementation of National Immunization Days. From an estimated 2500–3000 cases per year, this number was reduced to only 156 reported cases of wild polio in 1998. Despite peaks in 1999 and 2003, there has been a consistently downward trend until 2007 (Fig. 1).

The use of mass immunization campaigns in the Initiative’s early years and the annual decline in polio cases led many to the expectation that polio eradication was imminent.^{12,13} However, India suffered setbacks when the number of cases increased from 268 in 2001 to 1600 in 2002 (Fig. 2) and from 66 in 2005 to 873 in 2007. Eighty percent of the cases were concentrated in Uttar Pradesh, where polio disproportionately affected the poorest, hardest-to-reach underserved communities. Pakistan experienced increases in 2003 and 2006 and a small number of polio cases continued to be reported in high-risk areas suggesting the need to intensify activities to reach the most underserved and marginalized populations to interrupt transmission.

Typically, polio cases in India were among children aged less than two years (75%) who lived in mostly poor Muslim communities, lacked access to basic sanitary services, were often

missed in OPV rounds, and thus were more likely to receive fewer doses.¹¹ The question was why these children were consistently missed. While most parents were aware of the need for polio drops to protect their children, many did not understand the rationale for repeated rounds.¹⁴ Misconceptions about OPV and suspicions about motivations behind the campaign emerged, especially in the light of other visible problems (i.e. understaffed clinics, poor roads, other diseases). Misconceptions included: OPV caused illness in children, was ineffective, caused infertility and was part of a plan to curb growth of Muslims and scheduled Hindu castes.^{15,16} Misconceptions resulted in resistance to polio vaccination among significant numbers of caregivers. Pakistan faced similar challenges and its limited reach to children in underserved areas led to resistance towards vaccinators who were not members of some communities, especially all-male vaccinator teams, as well as barriers towards women’s involvement in the Polio Eradication Initiative. Caregivers reported being tired of repeated rounds and questioned the OPV’s efficacy, a situation exacerbated by news coverage accusing the Initiative of using a substandard vaccine.¹⁷ Passive resistance emerged where families did not actively resist OPV but did not take action to immunize their children. Note that resistance to polio vaccination is not unique to India and Pakistan. In Nigeria, for instance, there has been intense resistance to polio campaigns for similar reasons.

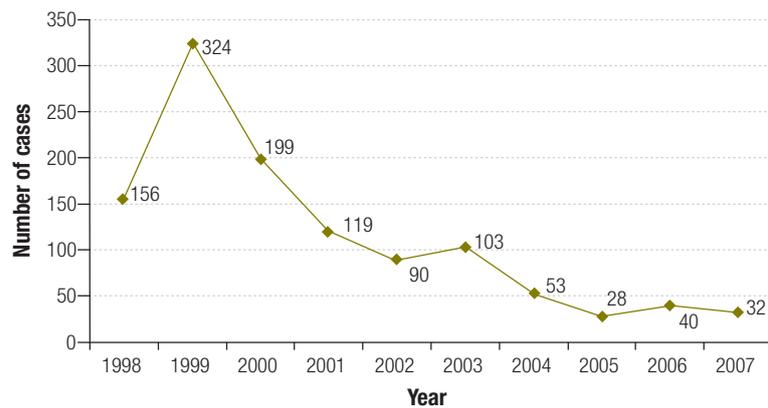
One of the most difficult challenges for India and Pakistan has been reaching underserved populations where immunity is too low to stop circulation of wild poliovirus, especially in environments conducive to its spread. Reaching and engaging underserved populations has become a turning point in the Initiative’s communication strategy as information alone is not sufficient to encourage behaviour and social change in these populations that would lead to acceptance of OPV.^{11,18,19} Therefore, the twofold communication challenge has been to: (i) engage and convince caregivers in hard-to-reach areas of the benefits of vaccinating their children, and (ii) ensure that caregivers whose children have received OPV are motivated to continue vaccinating their children.

Social mobilization

While widespread mass media campaigns continue to ensure national visibility and public awareness of the Initiative, augmentation of interpersonal communication and social mobilization interventions have become crucial to reach unreached populations. In India, these strategies relying on cadres of trained health workers and communicators have been intensified to address the context in which the wild poliovirus thrives. In coordination with local health authorities, a social mobilization network involved coordinators working at different levels: the sub-district, block (covering about 100 villages) and community (village) mobilization coordinators. They teamed up with vaccination teams for routine follow-up of families. Activities included planned, intensive and repeated interpersonal communication in selected sites using house-to-house visits as well as systematic and sustained mobilization of community and religious leaders and influencers (e.g. local doctors, Imams).¹¹

Several evaluations and studies show how these activities have contributed to the Initiative's efforts. Communities where social mobilization activities are conducted are consistently less likely to refuse OPV, more likely to attend booths and more likely to report positive attitudes towards OPV and higher perception of polio risk, compared with families in communities without these activities, hence contributing to lower incidence. In four high-risk districts of Uttar Pradesh where social mobilization activities were conducted, the number of wild

Fig. 1. Wild polio cases in Pakistan, 1998–2007



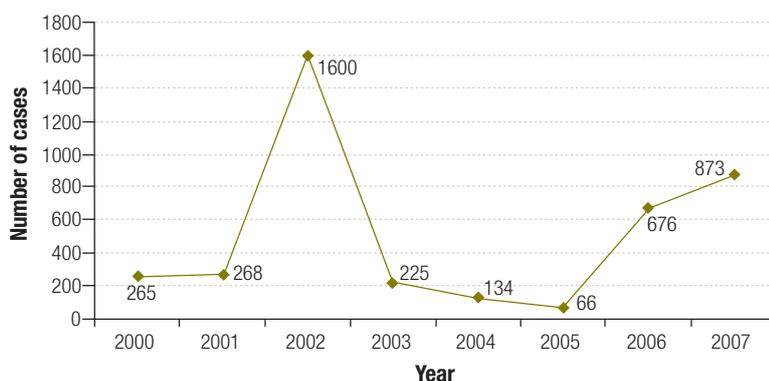
Source: Global Polio Eradication Initiative.¹

poliovirus cases dropped from 116 to 49 and there was a significant increase in booth coverage between 50 and 57%, compared with 19–35% at district level.¹¹ A one-year longitudinal study in 13 districts of Uttar Pradesh demonstrated that booth coverage was 8 to 12% higher in areas with a community mobilization coordinator than in areas without one. Other evaluations found a statistically significant difference ($P < 0.05$) in families' positive attitudes and behaviours towards OPV.^{5,6} An evaluation of the role of community mobilization coordinators in Uttar Pradesh pointed to a 20% increase among families who reported that interaction with community mobilization coordinators influenced their intention to vaccinate their children.²⁰ Social mobilization raised community perceptions of polio risk for an unvaccinated child from 76 to 87.4%.¹⁰ Researchers at JN Medical College in Uttar Pradesh studied

the impact of follow-up interpersonal communication and social mobilization activities with resistant families in five high-risk urban areas and found that 49.76% of 1025 resistant families accepted OPV after the first follow-up visit. After a second follow-up visit, a total of 79.32% of resistant families had accepted OPV for their children.⁸

In Pakistan, attitudinal changes were reported in districts with intensive social mobilization, where 93% of respondents agreed that polio is a serious health problem compared with 83% in districts without these activities. In communities where this was intensified, 95% of respondents believed that OPV was safe for children, compared with 88% in districts without.²¹ The use of programme and research data enabled Pakistan's Polio Eradication Initiative to revise its communication strategy to focus on messages for specific audiences and adapt behaviour-change goals towards improving OPV acceptance. A 2005 evaluation²² found that while mass media campaigns were effective in sustaining peoples' interest in polio (98% of respondents knew about the campaign; 55% said they discussed OPV with other community members), findings underlined the need to target women, often the primary decision-makers on child health, through ongoing interpersonal communication by trained female health workers. While men remained important opinion leaders and information gatekeepers, female caregivers played a primary role in the decision-making regarding immunization of their children in 55% of households.²²

Fig. 2. Wild polio cases in India, 2000–2007



Source: Global Polio Eradication Initiative.¹

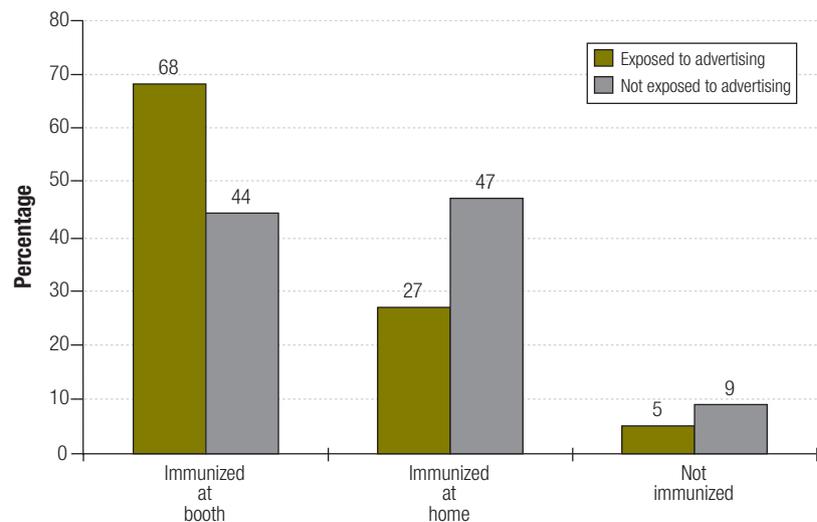
The communication strategy re-focused on reaching women through interpersonal communication with an emphasis on OPV safety and efficacy and its benefits to children. Trained female health workers spearheaded intensified efforts as communication support persons. They communicated directly with female caregivers or indirectly through females in the community, with support from male community and religious leaders. The female teams were effective in influencing caregivers shown by reports of improvements in attitudes towards OPV and perceptions of risk of polio in target areas. A 2005 UNICEF study in high-risk and four low-risk areas (categorized by poor campaign indicators and/or poor coverage; $n = 2143$ households) showed that in districts with intensive social mobilization ($n = 808$ households), 78% of respondents reported that OPV protected their children from polio, compared with 71% in areas without these activities ($n = 1335$ households) caregivers.²²

Engaging influencers

The challenge of reaching underserved and hard-to-reach populations in India, which included high proportions of Muslim families, led to a focused strategy aimed at “areas with families at high-risk of wild poliovirus infection and ... poor access to health, sanitation, and other basic services”.¹⁵ Influential Muslim training institutions (such as Aligarh Muslim University and Jamia Milla Islamia) and religious and community leaders were engaged in building public confidence and credibility in the Polio Eradication Initiative, improving coverage in underserved communities, providing support at district and settlement levels and countering resistance to polio vaccination in Uttar Pradesh.

In 2004, Muslim religious (2697) and community (1892) leaders were asked to participate in the polio campaign, resulting in 77% and 79%, respectively, of these leaders supporting the programme’s efforts to convince resistant caregivers. They succeeded in 87% of cases in their coverage area, reaching 100% in some districts. This was a critical contribution to the reduction of the immunity gap among Muslim and Hindu children in Uttar

Fig. 3. Exposure to polio radio and television advertising and polio immunization rates, Uttar Pradesh, India, 2004–2005



Pradesh’s western region. The number of Muslim children who had not received at least two polio drops was reduced from 5% in 2002 to nearly 0% in 2004.¹⁵ Engagement of religious leaders to counter refusals due to religious reasons or misperceptions has yielded similar results in Pakistan’s north-west frontier province. Data from 2007 show that, after involving religious leaders in polio eradication activities, coverage of children in families refusing due to religious reasons increased from 13% in August to 17% in October, and coverage of families refusing due to misconceptions increased from 37% to 50% in the same period.²³ When properly engaged, religious and community leaders become strong community allies to eradicate polio.

Role of media and advocacy

Data support claims of the contribution of mass and folk media and advocacy to increased awareness and booth attendance. In India, large-scale mass media campaigns involving movie and cricket stars and political figures focused on dispelling rumours about OPV and encouraging caregivers to bring their children to vaccination booths. A 2003 evaluation showed that nearly 92% of 9370 respondents cited television and radio spots as “very influential” or “influential” in their decision to take children to vaccination booths, while “9 out of 10 respondents ... said they had come to the booth largely due to ... the TV and radio spots”.¹² Entry

and exit polls following exposure to messages on local media among 2552 randomly selected respondents showed a 60% increase in awareness of the next National Immunization Day’s date and a 20% increased intention to get their children immunized at the booth. Puppet/theatre shows, video vans and other folk media activities held in more than 3500 villages in Uttar Pradesh, contributed to a 20% increase in booth attendance.^{10,20} Data from 2004–2005 showed that 68% of respondents exposed to polio radio and television spots reported taking their children to the booth for vaccination, compared with only 44% among those not exposed to the advertising (Fig. 3).¹⁰

Advocacy efforts have focused on mobilizing professional associations and enlisting their support for polio eradication activities, particularly during National Immunization Days. Political endorsement and support of professional associations include the Indian Academy of Paediatricians, whose members have encouraged caregivers to vaccinate their children and have used their own clinics as polio booths during National Immunization Days. In Uttar Pradesh, this led to the “full-scale involvement of partners and communities ... who contributed to an increase in the number of children vaccinated from 30.48 million to 33.96 million and an increase in the total number of children vaccinated at booths from 8.77 million to 14.7 million over the same period”.¹¹

Value added to the initiative

Strategic and synergistic communication efforts that integrate social mobilization, interpersonal communication, gender- and culturally-sensitive interventions, mass/folk media and political advocacy have contributed to the Initiative's progress and to access unreached populations in challenging socio-economic environments. Principles underpinning communication strategies in India and Pakistan include: i) use of epidemiological, social and behavioural data to assess social/individual constraints, such as knowledge gaps and resistance, to develop effective interventions to reach underserved groups; (ii) development of innovative and intensive interpersonal communication/social mobilization strategies; and (iii) engagement of community and religious leaders.¹⁸ Evidence of impact of communication interventions, including vaccine-related interventions, has been discussed widely.^{4,5,24,25}

Lessons from the added-value of polio communication may contribute to other public health communication programmes, particularly those trying to reach out to the marginalized and poor. They include:

- implementation of communication interventions based on routine monitoring of epidemiological, social and behavioural data on affected populations;
- intensive use of interpersonal communication and social mobilization at different levels to maximize reach, effectiveness and efficiency;
- mobilization of community leaders, communication and relationship-building, engaging families and caregivers who question repeated polio vaccination;
- involving religious leaders as spokespersons and using faith-based folk media (i.e. mosque announcements) to reach community members;
- working with trained communication outreach workers as part of a house-to-house strategy to reach children missed during National Immunization Days;
- advocacy with intensive grassroots mobilization to reach and communicate with marginalized communities; and

- addressing social/gender norms to improve interpersonal communication and increasing access to hard-to reach groups.

Conclusion

Historically, communication for polio eradication relied on information dissemination about health services, primarily through mass media, aimed at increasing demand for vaccines, especially in areas with a good health infrastructure and high routine immunization rates (i.e. Latin America). Polio eradication in India and Pakistan has raised new challenges that demand communication interventions that are responsive to the evolving nature of the epidemic and the social context of the children they hope to immunize. Both countries have implemented proven strategies and developed innovative approaches to reach and immunize children in hard-to-reach areas. Epidemiological, social and behavioural data have informed multiple communication interventions and culturally-sensitive approaches. These include setting a national agenda for polio eradication, creating demand for OPV, increasing booth attendance during National Immunization Days, pushing for universal coverage through mobilization of local partnerships and networks, and overcoming pockets of resistance to vaccination among caregivers in unreached and underserved areas.

Despite setbacks in their polio eradication efforts, India²⁶ and Pakistan have made remarkable progress in lowering the burden of polio. Communication strategies have contributed to such progress on several levels by: mobilizing social networks and leaders, creating political will, increasing knowledge and changing attitudes, ensuring individual and community-level demand, overcoming gender barriers and resistance to vaccination, and, above all, reaching out to the poorest and the most marginalized. They should continue to play a central role in the final push to eradicate polio.

This review documents the value and crucial contribution of carefully planned and closely monitored com-

munication in building widespread support and understanding, as well as accessing unreached populations and overcoming resistance. There is no vaccine against resistance or refusals that are rooted in social-cultural, religious and political contexts. No supply chain can overcome issues of gender-based decision-making in households. Medical approaches alone cannot address certain community concerns (i.e. why OPV is brought to their door when many other services are not available). These challenges demand effective communication action. Lessons learned by the Global Polio Eradication Initiative may contribute to global public health efforts as we look for innovations to address even more challenging objectives outlined in the United Nation's Millennium Development Goals. ■

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Résumé**Eradication complète de la poliomyélite : revue des données de communication dans le domaine sanitaire et leçons acquises en Inde et au Pakistan**

Depuis 1988, le monde s'est beaucoup rapproché de l'éradication de la polio grâce à l'Initiative mondiale pour l'éradication de la poliomyélite, dans laquelle les interventions en matière de communication jouent invariablement un rôle central. Les approches utilisant les mass médias pour diffuser des informations appliquées dans le cadre des efforts de vaccination partout dans le monde ont participé à ce succès. Cependant, les personnes les plus difficiles à atteindre, les plus pauvres, les plus marginalisées et celles ne pouvant accéder aux services de santé ont posé de grandes difficultés. Dans cette dernière offensive pour vaincre la polio, les stratégies de communication de l'Initiative mondiale pour l'éradication de la poliomyélite sont de plus en plus innovantes et portées par la recherche, notamment avec l'introduction d'approches de communication interpersonnelle durable et de mobilisation sociale pour atteindre les populations encore non desservies.

La revue examine les efforts de communication concernant la polio entrepris en Inde et au Pakistan entre 2000 et 2007. Elle montre comment les données épidémiologiques, sociales et comportementales guident les stratégies de communication contribuant à accroître les niveaux d'immunité contre cette

maladie, en particulier parmi les populations non desservies et difficiles à atteindre. Elle illustre la façon dont des stratégies de communication étayées par des données factuelles et planifiées - telles que les campagnes prolongées utilisant les médias, la mobilisation communautaire et sociale intensive, la communication interpersonnelle et la sensibilisation politique et nationale - ont participé globalement à réduire l'incidence de la polio dans ces pays. Les résultats montrent que les stratégies de communication ont apporté une contribution à plusieurs niveaux en mobilisant les réseaux et les leaders sociaux - en créant une volonté politique, en élargissant les connaissances - en garantissant une demande au niveau individuel et communautaire et en permettant de surmonter les obstacles liés à l'appartenance sexuelle et la résistance à la vaccination, ainsi que d'atteindre les populations pauvres et marginalisées. La revue conclut avec des observations sur la valeur ajoutée des stratégies de communication dans le cadre des efforts d'éradication de la polio et sur leurs implications pour les interventions mondiales et locales de communication en santé publique.

Resumen**Erradicación de la poliomieltis: análisis de la evidencia sobre la comunicación sanitaria y enseñanzas extraídas en la India y el Pakistán**

Gracias a los esfuerzos desplegados desde 1988 a través de la Iniciativa de Erradicación Mundial de la Poliomieltis, el mundo está a punto de erradicar esta enfermedad. En esa empresa las intervenciones de comunicación han sido siempre decisivas, y las tácticas de recurso a los medios de difusión y divulgación de información empleadas en las actividades de inmunización en todo el mundo han contribuido a ese éxito. Sin embargo, ha habido dificultades para llegar a las poblaciones más remotas, más pobres y más marginadas y a las personas sin acceso a los servicios de salud. En la última acometida para erradicar la enfermedad, las estrategias de comunicación de la Iniciativa de Erradicación de la Poliomieltis se han visto cada vez más impulsadas por las investigaciones y han tenido un carácter crecientemente innovador, gracias sobre todo a la introducción de mecanismos sostenidos de comunicación interpersonal y movilización social para llegar a las poblaciones que quedaban fuera del alcance.

En esta revisión se analizan los esfuerzos de comunicación contra la poliomieltis desplegados en la India y el Pakistán entre 2000 y 2007. Se explica cómo los datos epidemiológicos, sociales

y comportamentales orientan las estrategias de comunicación que han contribuido a aumentar los niveles de inmunidad contra esa enfermedad, sobre todo entre poblaciones subatendidas y de difícil acceso, y se describe el proceso por el que unas estrategias de comunicación basadas en la evidencia y planificadas en consecuencia - como una combinación de campañas sostenidas en los medios, una movilización comunitaria y social intensiva, fórmulas de comunicación interpersonal, y medidas políticas y de promoción a nivel nacional - han contribuido a reducir la incidencia de poliomieltis en esos países. Los resultados indican que las estrategias de comunicación han contribuido en distintos niveles a: movilizar a las redes y los líderes sociales; generar voluntad política; ampliar los conocimientos; garantizar la demanda individual y comunitaria; superar las barreras de género y la resistencia a la vacunación; y dar alcance a las poblaciones más pobres y marginadas. El análisis concluye con diversas observaciones sobre el valor añadido de las estrategias de comunicación en las actividades de erradicación de la poliomieltis y sus implicaciones para las intervenciones mundiales y locales de comunicación en materia de salud pública.

ملخص**تحقيق استئصال شلل الأطفال: مراجعة للبيانات حول التواصل الصحي وللدروس المستفادة من الهند وباكستان**

منذ عام 1988، أصبح العالم قريباً جداً من استئصال شلل الأطفال من خلال المبادرة العالمية لاستئصال شلل الأطفال؛ والتي أدت فيها التدخلات التواصلية دوراً محورياً على نحو مستمر، وقد ساهمت في هذا النجاح وسائل الإعلام وأساليب نشر المعلومات المستخدمة في الجهود التمهينية في شتى أرجاء العالم، إلا أن الصعوبات تمثلت في الناس الذين يصعب الوصول إليهم، والأشد فقراً، والأكثر تهميشاً، والذين لا تتاح لهم الخدمات الصحية. وفي سياق الدفعة الأخيرة لتحقيق استئصال شلل الأطفال، أصبحت استراتيجيات التواصل في المبادرة العالمية لاستئصال شلل الأطفال أكثر طواعية للبحوث وأكثر ابتكاراً، ولاسيما من خلال إدخال التواصل المستمر بين الأشخاص وأساليب استنهاض المجتمع للوصول إلى السكان الذين يتعذر الوصول إليهم. وتتفحص هذه

المبادرات التي ساهمت في هذا النجاح وسائل الإعلام وأساليب نشر المعلومات المستخدمة في الجهود التمهينية في شتى أرجاء العالم، إلا أن الصعوبات تمثلت في الناس الذين يصعب الوصول إليهم، والأشد فقراً، والأكثر تهميشاً، والذين لا تتاح لهم الخدمات الصحية. وفي سياق الدفعة الأخيرة لتحقيق استئصال شلل الأطفال، أصبحت استراتيجيات التواصل في المبادرة العالمية لاستئصال شلل الأطفال أكثر طواعية للبحوث وأكثر ابتكاراً، ولاسيما من خلال إدخال التواصل المستمر بين الأشخاص وأساليب استنهاض المجتمع للوصول إلى السكان الذين يتعذر الوصول إليهم. وتتفحص هذه

وتبين النتائج والموجودات أن استراتيجيات التواصل قد ساهمت على مستويات مختلفة في: استنهاض الشبكات الاجتماعية والقيادات، وخلق الإرادة السياسية، وزيادة المعارف، وضمان الطلب على المستوى المجتمعي ولدى الأفراد، والتغلب على عوائق الجندر ومقاومة التلقيح الوصول إلى الناس الأشد فقراً، وكذلك الوصول إلى السكان المهمشين. وتختتم المراجعة ملاحظة ما لاستراتيجيات التواصل من قيمة مضافة في الجهود المبذولة لاستئصال شلل الأطفال وتأثيراتها على التدخلات الخاصة بالتواصل في الصحة العمومية على المستوى العالمي والمحلي.

المراجعة الجهود المبذولة في التواصل حول شلل الأطفال في الهند وفي باكستان في المدة بين عامي 2000 و2007، وتوضح كيف قادت المعطيات السلوكية والاجتماعية والوبائية استراتيجيات التواصل التي ساهمت في ازدياد مستويات المناعة ضد شلل الأطفال، ولاسيما بين السكان المحرومين من الخدمات والذين يصعب الوصول إليهم.

كما توضح المراجعة كيف ساهمت الاستراتيجيات المسندة بالبيئات والمخطّط لها حول التواصل، مثل الحملات الإعلامية المستديمة، واستنهاض المجتمعات العامة والمحلية، والتواصل بين الأشخاص، وضم حملات الدعوة السياسية والوطنية معاً، في إنقاص معدلات وقوع شلل الأطفال في هذين البلدين.

References

1. Global Polio Eradication Initiative [home page]. Available from: <http://www.polioeradication.org/> [accessed on 21 May 2009].
2. Levine R, What Works Working Group. *Millions saved: proven successes in global health*. Washington, DC: Center for Global Development; 2004.
3. *Global Polio Eradication Initiative strategic plan 2009-2013 framework document*. Geneva: World Health Organization; 2009. Available from: http://www.polioeradication.org/content/publications/PolioStrategicPlan09-13_Framework.pdf [accessed on 21 May 2009].
4. Haidar M, ed. *Global public health communication: challenges, perspectives and strategies*. Boston, MA: Jones & Bartlett Publishers; 2005.
5. Hornik RC, ed. *Public health communication: evidence for behavior change*. Mahwah, NJ: Lawrence Erlbaum Associates; 2002.
6. Salmon C, Murray-Johnson L. Communication campaign effectiveness: critical distinctions. In: Rice R, Atkins C, eds. *Public communication campaigns*, 3rd ed. Thousand Oaks, CA: Sage; 2003.
7. McKee N, Manoncourt E, Yoon C, Carnegie R. *Involving people, evolving behaviour*. Penang: Southbound & UNICEF; 2000.
8. Athar Ansari M, Khan Z, Khan I. Reducing resistance against polio drops. *Perspectives in Public Health* 2007;127:276-9.
9. ElZein HA, Birmingham ME, Karrar ZA, Elhassan AA, Omer A. Rehabilitation of the expanded programme on immunization in Sudan following a poliomyelitis outbreak. *Bull World Health Organ* 1998;76:335-41. PMID:9803584
10. Galway M. Communication for polio eradication: India update. In: *Technical Advisory Group Meeting, Communication for polio eradication, Cameroon, 2005*.
11. *A critical leap to polio eradication in India* [working paper]. New Delhi: United Nations Children's Fund Regional Office for South Asia; 2003.
12. Cheng W. *When every child counts: engaging the underserved communities for polio eradication in Uttar Pradesh, India* [working paper]. New Delhi: United Nations Children's Fund Regional Office for South Asia; 2004.
13. Polio eradication in India: victory in sight [editorial]. *Bulletin of Polio Eradication Committee* 2005;2:2.
14. *Barriers in polio eradication: an AIMS-India CLEN study, 2000/2001*. New Delhi: All India Institute of Medical Sciences;2001.
15. *Building trust in immunization: partnering with religious leaders and groups* [working paper]. New Delhi: United Nations Children's Fund Regional Office for South Asia;2004.
16. *EPOS study on understanding barriers to polio eradication in Uttar Pradesh*. New Delhi: World Health Organization Regional Office for South-East Asia / United Nations Children's Fund Regional Office for South Asia; 2002.
17. Cheng W. *Reaching the unreached: communication support for the Pakistan polio eradication initiative*. New Delhi: United Nations Children's Fund Regional Office for South Asia; 2004.
18. Leach M, Fairhead J. Understandings of immunization: some west African perspectives. *Bull World Health Organ* 2008;86:418. PMID:18568263 doi:10.2471/BLT.08.054726
19. Ogden E, Waisbord S, Shimp L, Thomas S. Communication for disease eradication and control: the polio eradication experience. In: *World congress on communication for development, Rome, Italy, 2006*.
20. Cheng W. *Polio eradication India: reaching the last child*. New Delhi: United Nations Children's Fund Regional Office for South Asia; 2004.
21. *Evaluation of social mobilization activities for polio eradication*. Islamabad: United Nations Children's Fund;2005.
22. *Evaluation of social mobilization activities for polio eradication*. Islamabad: SoSec Study;2004/2005.
23. Jabbar A. Religious leaders as partners in polio eradication [NWFP/FATA]. In: *Technical Advisory Group on poliomyelitis eradication in Afghanistan and Pakistan, Cairo, 2008*.
24. Waisbord S. *Assessment of communication programs in support of polio eradication: global trends and case studies*. Washington, DC: The CHANGE Project Academy for Educational Development/The Manoff Group; 2004.
25. Goswami R. The role of marketing in polio eradication. In: *International marketing conference on marketing & society, Indian Institute of Management Kozhikode, 8-10 April 2007*.
26. Paul Y. What needs to be done for polio eradication in India? *Vaccine* 2007; 25:6431-6.